

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: CLAYTON CAMOZZI
 Phone: (303) 831-4673
 Contractor: Name: VAL ENERGY
 License: 5822
 Wellsite Geologist: TIM HEDRICK
 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>04/26/10</u>	<u>5/4/10</u>	<u>5/10/10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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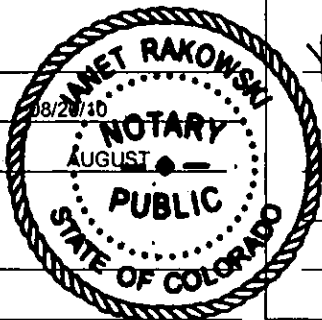
API No. 15 - 15-165-21879-0000
 County: RUSH
 E/2 E/2 SE Sec. 34 Twp. 16 S. R. 16 East West
1320 feet from SOUTH Line of Section
330 feet from EAST Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: D.T.Z. Well #: 1-34
 Field Name: WILDCAT
 Producing Formation: _____
 Elevation: Ground: 1976' Kelly Bushing: 1986'
 Total Depth: 3659' Plug Back Total Depth: 3632'
 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: _____
 Title: GEOLOGIST Date: _____
 Subscribed and sworn to before me this 20TH day of _____
2010
 Notary Public: Janel 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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My Commission Expires 06/05/2013

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Operator Name: SAMUEL GARY JR & ASSOCIATES, INC. Lease Name: D.T.Z. Well #: 1-34
 Sec. 34 Twp. 16 S. R. 16 East West County: RUSH

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 <i>(Attach Additional Sheets)</i>	<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	2972'	-986'
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HEEBNER	3204'	-1218'
List All E. Logs Run:	DUAL INDUCTION	DOUGLAS	3236'	-1250'
	DENSITY - NEUTRON	LANSING	3260'	-1274'
	SONIC LOG	ARBUCKLE	3555'	-1569'
	MICROLOG	TD	3659'	

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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set - conductor, surface, intermediate, production, etc.							
Purpose of string	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	24	1078'	CLASS A	400	2% GEL & 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5	3655'	60/40 POZ ECON-O-BOND	25 125	5#/SK GILSONITE, 1/4#/SK CELLFLAKE

ADDITIONAL CEMENTING/SQUEEZE RECORD

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)	
		Amount and Kind of Material Used	Depth
4	3225'-28'	400 gallons of 20% MCA w/ 3% MAS	3225'-28'
4	3260'-63'	400 gallons 20% MCA w/ 3% MAS	3260'-63'
4	3283'-87'	400 gals 20% MCA w/ 3% MAS	3283'-87'
4	3340'-45'	400 gal of 20% MCA w/ 3% MAS and 59bbls of produced water	3340'-45'

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-7/8"	3596'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.			Producing Method		
5/26/10			<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40	0	20		

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval 3325'-3345' OA



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

August 20, 2010

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

Re: D.T.Z. 1-34
Rush County, Kansas
API# 15-165-21879-0000

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Dear Dave,

Attached please find the ACO-1, Well History Description of Well and Lease, along with Geologist Report, DST's, Electric Logs, 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.

Clayton Camozzi
Geologist

Enclosures

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PAGE 1 of 2	CUST NO 1003682	INVOICE DATE 05/10/2010
INVOICE NUMBER 1718 - 90310882		

Pratt (620) 672-1201
 B SAMUEL GARY JR. & ASSOCIATES
 I PO Box: 448
 L RUSSELL
 L KS US 67665
 T
 O ATTN:

J LEASE NAME DTZ 1-34
 O LOCATION
 B COUNTY Rush
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40180604	27463		Net - 30 days	06/09/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/03/2010 to 05/03/2010</i>				
0040180604				
171801886A Cement-New Well Casing/Pi 05/03/2010				
5 1/2" Longstring				
Cement	75.00	EA	7.32	548.97 T
60/40 POZ				
Cement	125.00	EA	6.71	838.70 T
50/50 POZ				
Additives	31.00	EA	2.26	69.96 T
Cello-Flake				
Calcium Chloride	210.00	EA	0.64	134.50 T
Calcium Chloride				
Additives	625.00	EA	0.46	285.92 T
Cal-Set				
Additives	104.00	EA	4.57	475.77 T
FLA-322				
Additives	210.00	EA	0.15	32.02 T
Cement Gel				
Additives	1,000.00	EA	0.41	408.67 T
Gilsonite				
Cement Float Equipment	1.00	EA	243.99	243.99
Latch Down Plug & Baffle 5 1/2" (Blue)				
Cement Float Equipment	1.00	EA	219.59	219.59
Auto Fill Float Shoe 5 1/2" (Blue)				
Cement Float Equipment	8.00	EA	67.10	536.77
Turbolizer 5 1/2" (Blue)				
Additives	4.00	EA	21.35	85.39 T
CS-1L KCL Substitute				
Additives	500.00	EA	0.93	466.62 T
Super Flush II				
Pickup	85.00	HR	2.59	220.35
Unit Mileage Charge-Pickups, Vans & Cars				
Mileage	170.00	MI	4.27	725.86

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MAY 17 2010

DBLG COMP W/O LOE

SAMUEL GARY JR. & ASSOCIATES, INC.

AFE # _____
 ACCT # 8700-138
 APPROVED BY [Signature]



PAGE	CUST NO	INVOICE DATE
2 of 2	1003682	05/10/2010
INVOICE NUMBER		
1718 - 90310882		

Pratt (620) 672-1201
 B SAMUEL GARY JR. & ASSOCIATES
 I PO Box: 448
 L RUSSELL
 L KS US 67665
 T
 O ATTN:

J LEASE NAME DTZ 1-34
 O LOCATION
 B COUNTY Rush
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

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JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40180604	27463		Net - 30 days	06/09/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
Heavy Equipment Mileage				
Mileage	723.00	MI	0.98	705.60
Proppant and Bulk Delivery Charge				
Pump Charge-Hourly	1.00	HR	1,317.52	1,317.52
Depth Charge; 3001-4000'				
Mileage	200.00	MI	0.85	170.79
Blending & Mixing Service Charge				
Extra Equipment	1.00	EA	121.99	121.99
Casing Swivel Rental				
Cementing Head w/Manifold	1.00	EA	152.49	152.49
Plug Container Utilization Charge				
Supervisor	1.00	HR	106.74	106.74
Service Supervisor				

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PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	7,868.21
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	177.37
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	8,045.58
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 1886 A

DATE _____ TICKET NO. _____

DATE OF JOB 5-3-10 DISTRICT PRATT, Ks.		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER SAM GARY JR. & ASSOCIATES, INC.		LEASE DTZ WELL NO. 1-34							
ADDRESS		COUNTY RUSH STATE Ks.							
CITY STATE		SERVICE CREW LESLEY, VEATCH, NAIL							
AUTHORIZED BY		JOB TYPE: CNW-5 1/2" I.S.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27223	.75						5-3-10		2:00
27463	.75					ARRIVED AT JOB			11:40
11832/21010	.75					START OPERATION			10:15
						FINISH OPERATION			1:56
						RELEASED			7:30
						MILES FROM STATION TO WELL			8.5

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
MP 103	60/140 P.O.Z	SK	75		900.00
MP 104	50/50 P.O.Z	SK	125		1,375.00
CC 102	CELL-FLAKE	lb	31		114.70
CC 109	CALCIUM CHLORIDE	lb	210		220.50
CC 113	CAL-SET	lb	625		468.75
CC 129	FLA-322	lb	104		780.00
CC 200	CEMENT GEL	lb	210		52.50
CC 201	GILSONITE	lb	1,000		670.00
CF 1007	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1		400.00
CF 1251	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1		360.00
CF 11651	TURBOLIZER, 5 1/2"	EA	3		880.00
C 704	CS-1L, KCL SUBSTITUTE	GAL	4		140.00
CC 155	SUPER FLSH II	GAL	500		765.00
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CHEMICAL / ACID DATA:

SUB TOTAL **DLS**

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

TOTAL

SERVICE REPRESENTATIVE *Debra Lesley*
FIELD SERVICE ORDER NO.

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

BASIC

energy services, L.P.

TREATMENT REPORT

Customer # 111-ADV DR. & HCCO WATS	Lease No.	Date 5-3-10
Lease DTZ	Well # 1-34	
Field Order # 1886	Station IKATI KS.	Casing #
Type Job PAIL - 5 1/2' S.	Formation	Depth 168.00
		County R. 54
		State KS
		Legal Description 21-16-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft	CMT -	Acid 25SK 10/40 PZ	RATE	PRESS	ISIP	
Depth 1055	Depth	From	To	Pre Pad (12)	Max		5 Min.	
Volume	Volume	From	To	Pad 125SK 50/50 PZ	Min	AUG 4 3 2010	10 Min.	
Max Press 1500	Max Press	From	To	Frac 2 1/2' 500'	Avg	CONFIDENTIAL	15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 1638	Packer Depth	From	To	Flush 54' 2' 7 1/2'	Gas Volume		Total Load	

Customer Representative K. BRANUM	Station Manager D. SCOTT	Treater K. LESLEY
Service Units 27065 77463 19432 21110		
Driver Names LESLEY LEATCH NALL		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:40 AM					CON LOCATION - SAFETY / METERING
3:30 PM					RUN CSQ. 5 1/2' X 15.5' - EE ITS.
5:02 PM					CSQ. CMT BOTTOMING
5:15 PM					HOOK UP TO CSQ. - BREAK CIRC. 10/21G
6:15 PM	500		12	6	SINTEFLUSH II / SUBRI HEAD AHEAD S
6:16 PM	400		5	6	H2O SPACER
6:18 PM	300		7	6	25SKS 10/40 PZ @ 12.0' / GAL
6:24 PM	300		34	6	125SKS 50/50 PZ @ 13.8' / GAL
6:28 PM					SHUT DOWN - WASHLINE CLEAN - DIRT PLUG
6:38 PM	1000		12	7	START DISPLACEMENT W/ 2% KCL
6:47 PM	250		65	6	LIFT PRESSURE
6:50 PM	500		70	5	SLOW RATE
6:56 PM	1500		86.5	4	PLUG DOWN - HOLD
					30 SKS 10/40 - RHT HLF
					20 SKS 60/40 - HCCO HLF
					JOB COMPLETE
					THANKS - KELEN LESLEY
					RECEIVED
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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: 4/30/2010
 Invoice # 3821
 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 STRING SURFACE DTZ 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	31
	Premium Gel (Bentonite)	8
	Flo Seal	100
	Common-Class A	400
	Calcium Chloride	14
	bulk Truck Mileage-from Job location to Nearest Bulk Plant	31
	Baffle Plate Aluminum, 8 5/8"	1
	8 5/8" Top Rubber Plug	1

Item	Quantity
8 5/8" Centralizer	1
8 5/8" Basket	3

Invoice Terms:

Net 30

Quoted by: Dave Funk
 SubTotal: \$ 8,448.54
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,267.28)
 Total: \$ 7,181.26
 Tax: \$ 27.46
 \$ 7,208.72

Applied Payments:
 Balance Due: \$ 7,208.72

Thank You For Your Business!

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

QUALITY OILWELL CEMENTING, INC.

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

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

No. 3821
(Russell)

Date	4-27-2010	Sec.	34	Twp.	16S	Range	16W	County	Rush	State	Ks	On Location		Finish	7:45 PM
Lease	DTZ		Well No.		#1-34		Location Otis, Ks - 5N to Rd "G", 1W, 4N								
Contractor	Ual Energy Rig # 6							Owner w/s							
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4"		T.D.		1080'		Charge To Sam Gary Jr.								
Csg.	8 5/8" 24# New		Depth		1078'		Street								
Tbg. Size			Depth				City								
Tool			Depth				State								
Cement Left in Csg.	9.81'		Shoe Joint		9.81'		The above was done to satisfaction and supervision of owner agent or contractor								
Meas Line			Displace		68 BBLs		Cement Amount Ordered 400 sx Common 3%CC 2%Gel								

EQUIPMENT

Pumptrk	1	No.	Cementer	Brandon	2 1/2	Helper		1/4 flowseal
Bulktrk	12	No.	Driver	Rocky	2 3/4	Driver		Common 400 sx
Bulktrk	pick-up	No.	Driver	Rick	4 1/2	Driver		Poz. Mix
								Gel. 8 sx

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers # top of #1	Kol-Seal
Baskets #'s 2, 17, 26	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Cement did Circulate	Sand
	Handling 422
	Mileage 31

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	1
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	
	1- 8 5/8" Rubber plug
	1- 8 5/8" Baffle plate
Pumptrk Charge	Long Surface
Mileage	31

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X Signature *Randy O'Malley*

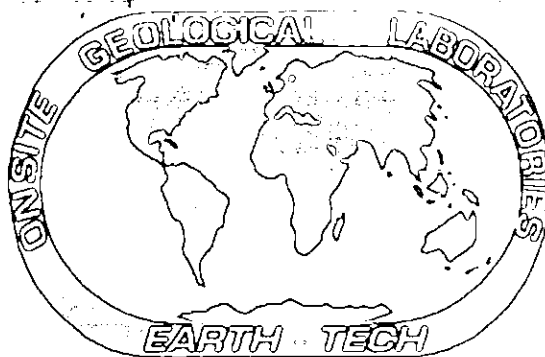
Russell

Tax
Discount
Total Charge

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

Well Name: DTZ 1-34
Location: SEC 34, 16S, 16W,
License Number: 15-165-21879-00-00
Spud Date: 04/27/2010
Surface Coordinates: 1320' FSL/330' FEL

Region: WILDCAT
Drilling Completed: 05/02/2010

Bottom Hole
Coordinates:
Ground Elevation (ft): 1976' K.B. Elevation (ft): 1986'
Logged Interval (ft): 1100 To: 3660' Total Depth (ft): 3660'
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: MR Clayton Camozzi

GEOLOGIST

Name: Rodney Napier
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 620-655-8252, 620-639-4680

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Dst #1

3200'-3266' 66' ANCHOR TOP PKR SET @3195' BTTM PKR SET@3200'

IFP:STRONG BLOW BOB IN 2 MIN

ISI:STRONG BLOW BACK BOB 14 MIN

FFP:STRONG BLOW BACK IN 30 MIN GAS TO SURFACE IN 18 MIN

FSI:STRONG BLOW BACK BOB IN 30 SEC

RECOVERY 63' HGO CM,63' HGO CM 189' MCGO

TOTAL 252' BHT:109 GRAVITY:39

IH:1581

FIF:43

FFF:107

ISI:1082

SIF:130

SFF:209

FSI:1102

FH:1554

OPEN TIMES 10,45,20,90

DST#2

3273'-3318' ANCHOR:45' TOP PKR 3268' BTTM PKR 3273'

IFF:STRONG BLOW BOB IN 1.5 MIN GAS TO SURFACE 3 MIN

ISI:STRONG BLOW BACK BOB 37MIN

FFP: STRONG BLOW BACK BOB 30 SEC

FSI:STRONG BLOW BACK BOB 12 MIN

RECOVERY:267' TOTAL 141' CLEAN OIL, 63' HOCGM,63'OCGM BHT:110, GRAVITY:37

IH 1637

FIF:31

FFF:48

ISI:1108

SIF:39

SFF:83

FSI:747

FH:1555

DST#3

3336'-3368' ANCHOR 32' TOP PKR 3331' BOTTM PKR 3336'

IFP:STRONG BLOW TO BOB IN 1.5 MIN

ISI:STRONG BLOW BACK BUILT TO 3.25"

FFP:STRONG BLOW BACK BOB IN 8 MIN

RECOVERY: TOTAL 456' 15' HGO CWM,252'MCGWO,189'WATER 1750' GIP

BHT:113

IH:1671

FIF: 34

FFF:77

ISI:1167

SIF:85

SFF:193

FSI:1150

FH:1562

TIMES:10,45,30,90

OTHER SYMBOLS

- | | | | |
|--|---|---|--|
| <p>POROSITY TYPE</p> <ul style="list-style-type: none"> <input type="checkbox"/> Earthy <input type="checkbox"/> Fenest <input type="checkbox"/> Fracture <input checked="" type="checkbox"/> Inter <input checked="" type="checkbox"/> Moldic <input type="checkbox"/> Organic <input type="checkbox"/> Pinpoint <input checked="" type="checkbox"/> Vuggy | <p>SORTING</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Well <input type="checkbox"/> Moderate <input type="checkbox"/> Poor <p>ROUNDING</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Rounded <input type="checkbox"/> Subrnd <input type="checkbox"/> Subang | <p><input type="checkbox"/> Angular</p> <p>OIL SHOWS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Even <input checked="" type="checkbox"/> Spotted <input type="checkbox"/> Ques <input type="checkbox"/> Dead <input checked="" type="checkbox"/> Gas show | <p>INTERVALS</p> <ul style="list-style-type: none"> <input type="checkbox"/> Core <input type="checkbox"/> Dst <input type="checkbox"/> Dst <p>EVENTS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Rft <input checked="" type="checkbox"/> Sidewall |
|--|---|---|--|

Curve Track 1	Depth	Lithology	Geological Descriptions	TG, C1-C5
ROP (min/ft) Gamma (API)				TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)
DRILLING (min/ft) 5 CONTRACTOR 150 SOUTHWIND #1	10		START UNMANNED LOGGING UNIT 04/28/2010	DRILLING (min/ft) 5 CONTRACTOR 150 SOUTHWIND #1
SURFACE CASING SET AT 1080'				SURVEYS 1080' 2 deg 3266' .25 DEG
	1100			STRAP @ 3266' .40 LONG TO BOARD
	1160			

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

1200

1250

1300

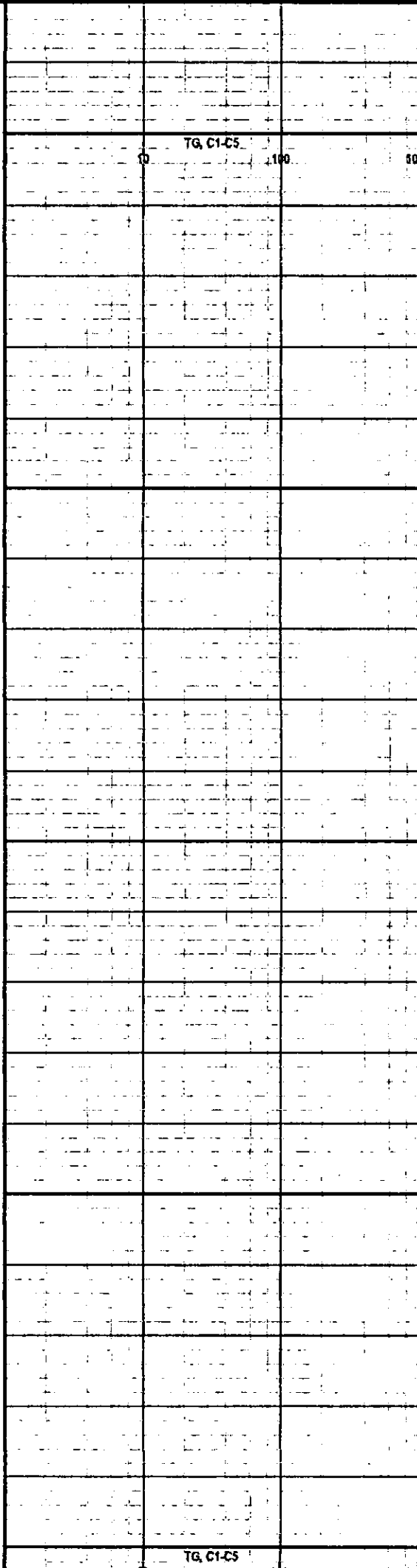
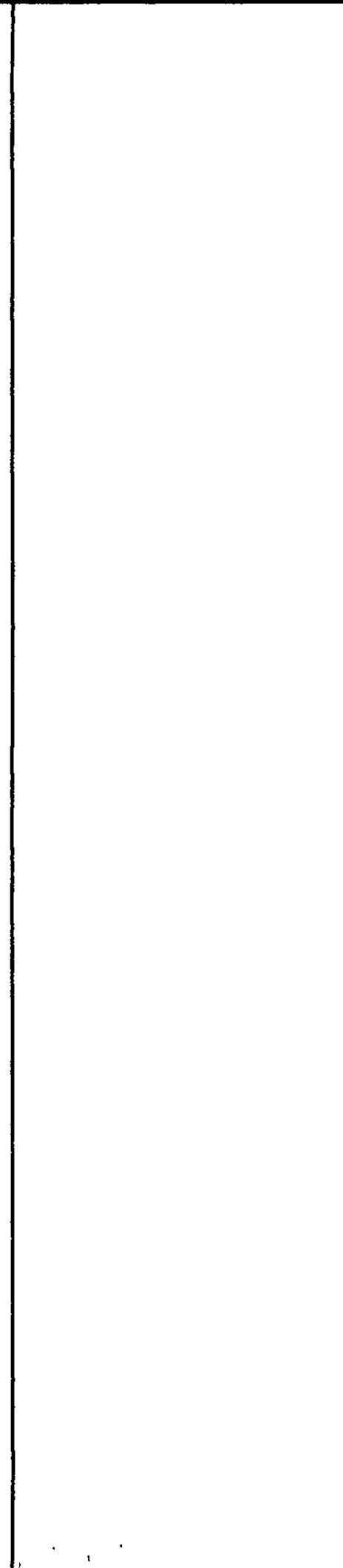
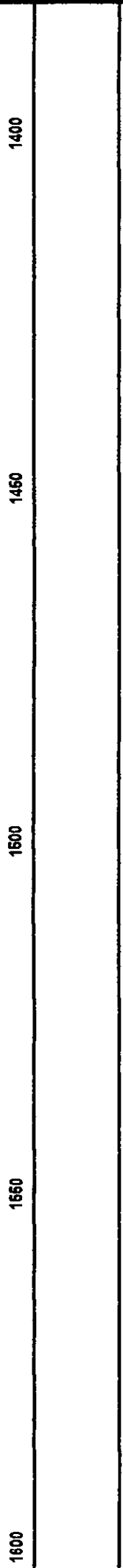
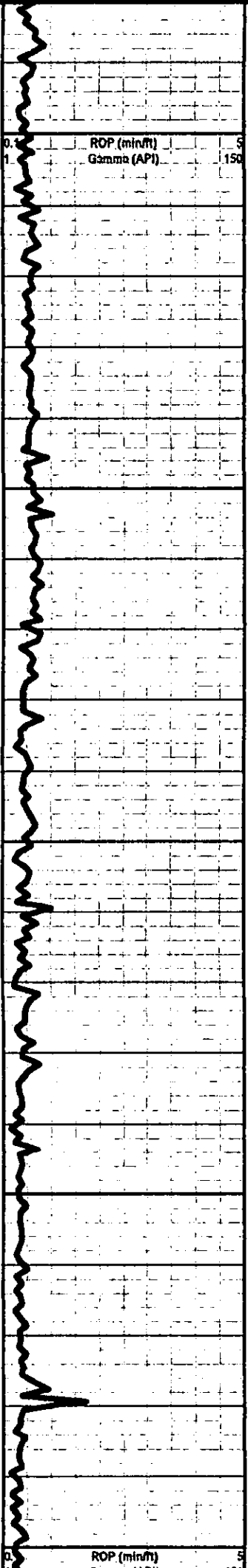
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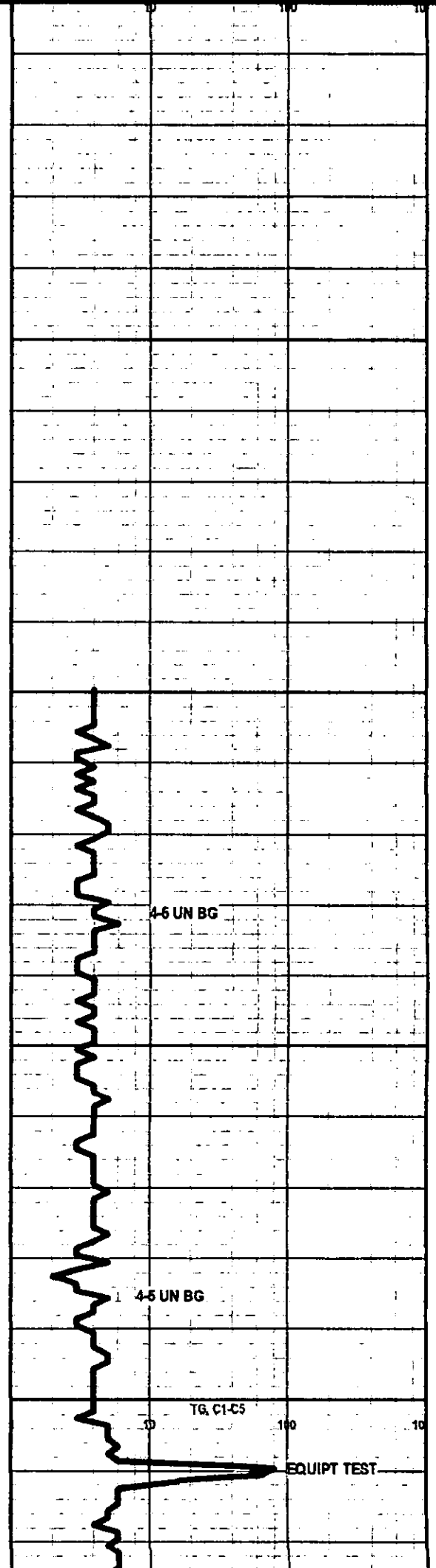
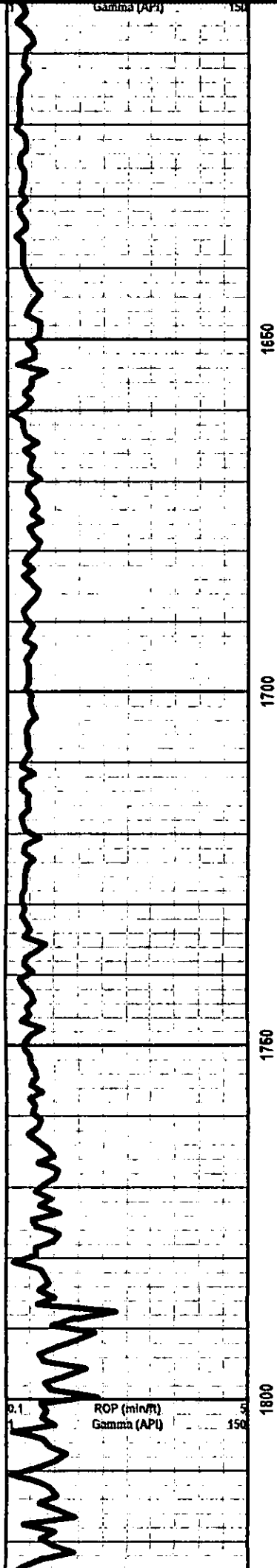
TG, C1-C5

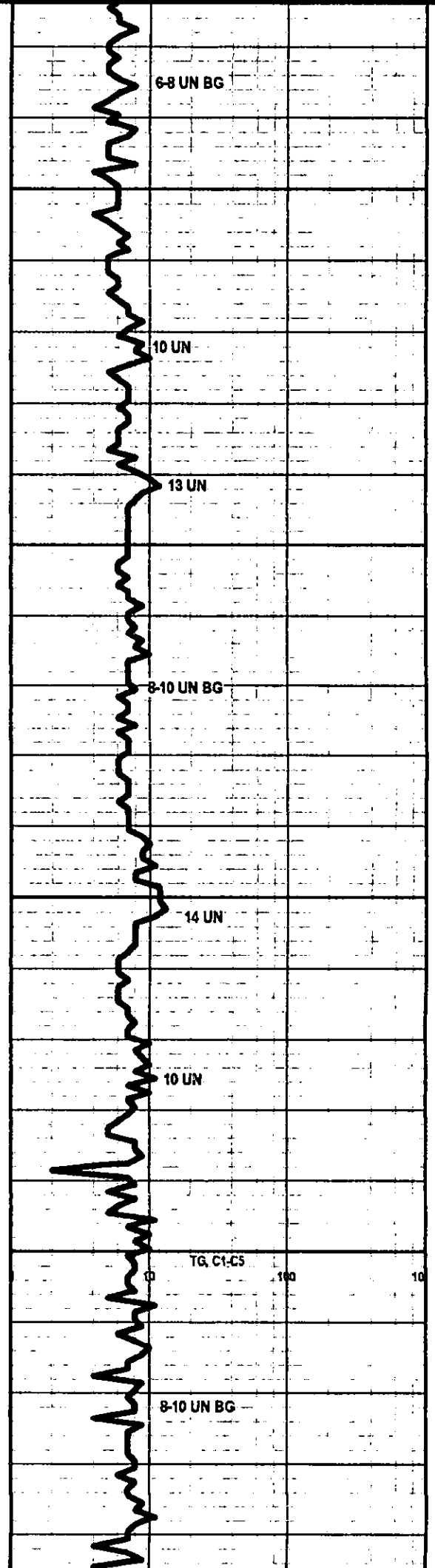
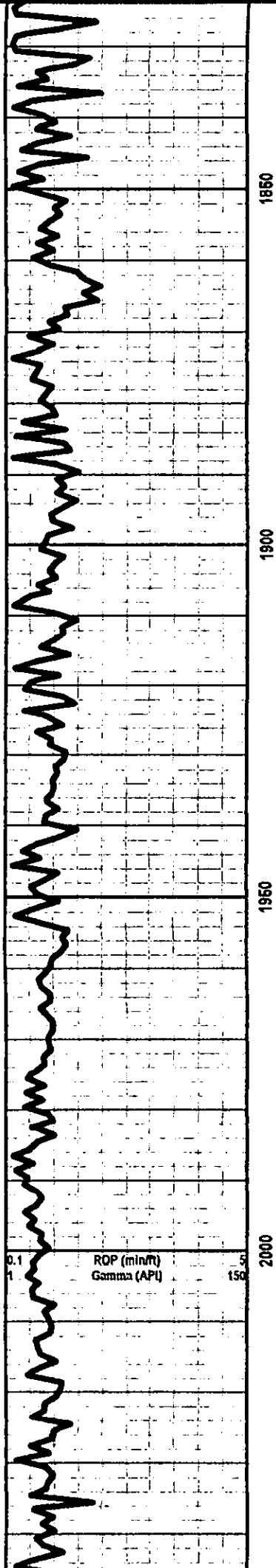
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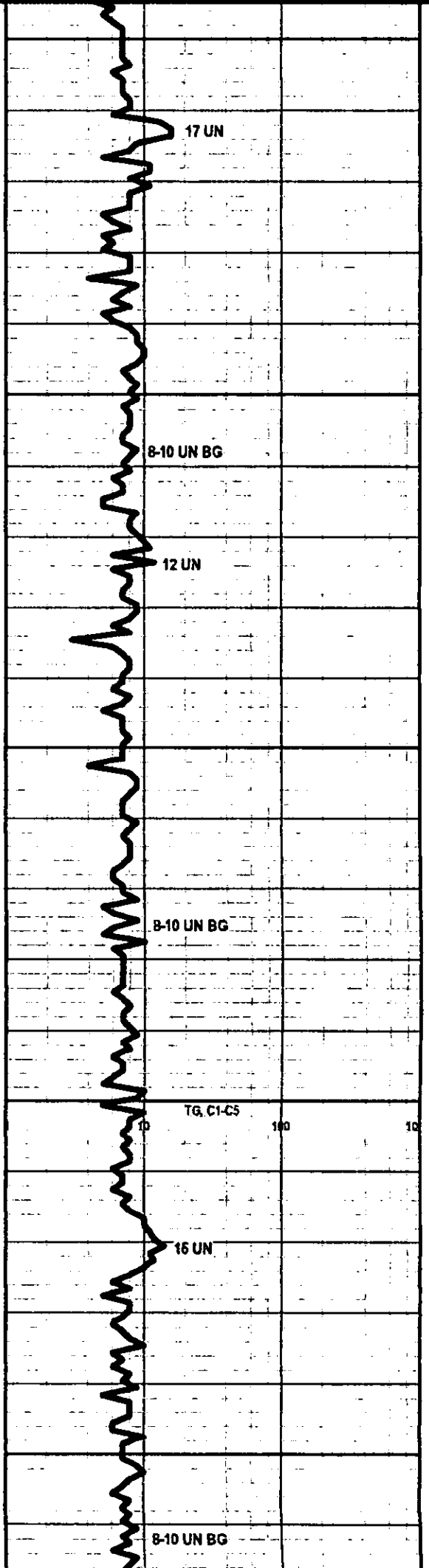
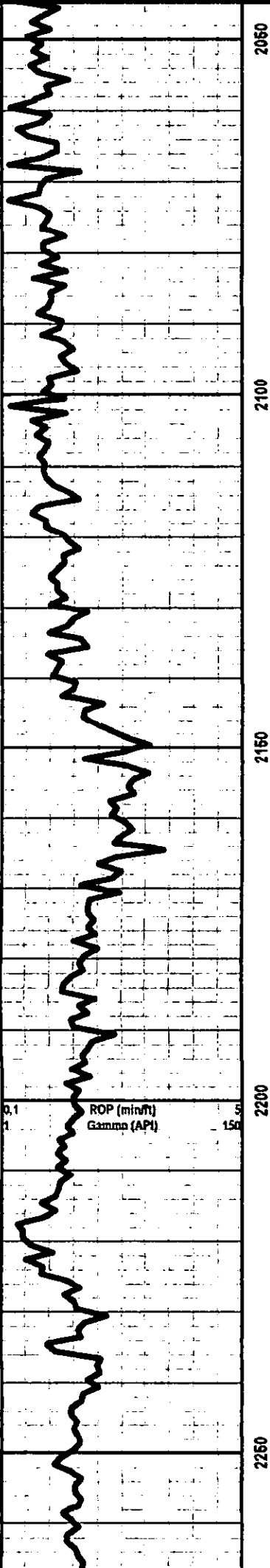
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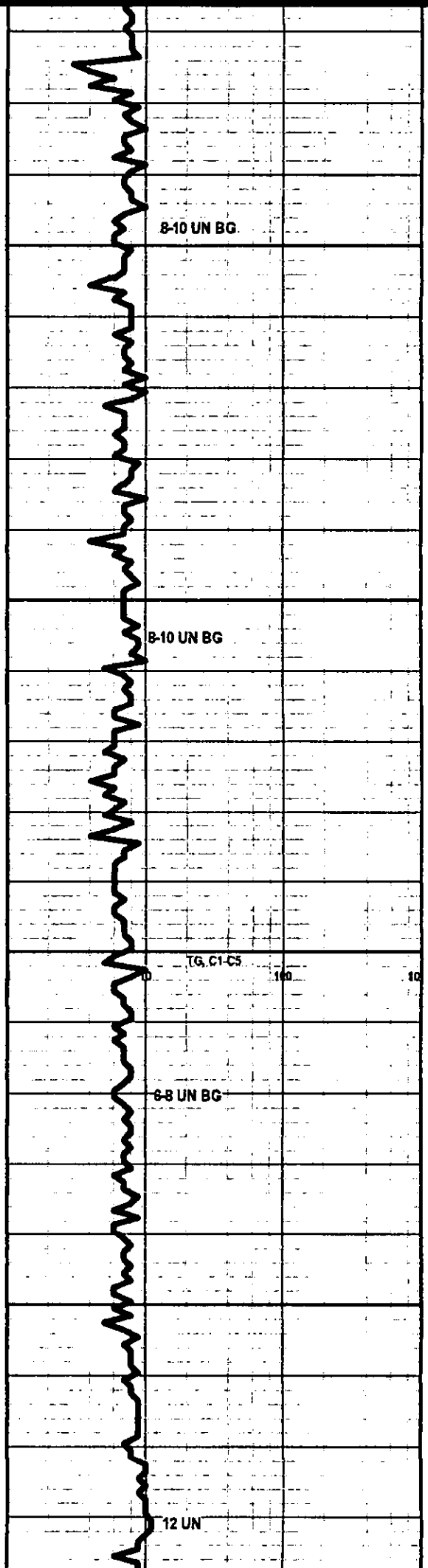
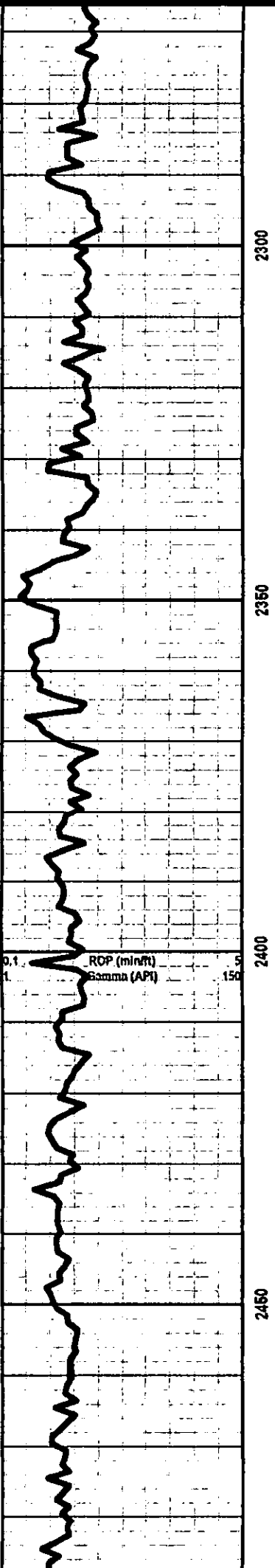
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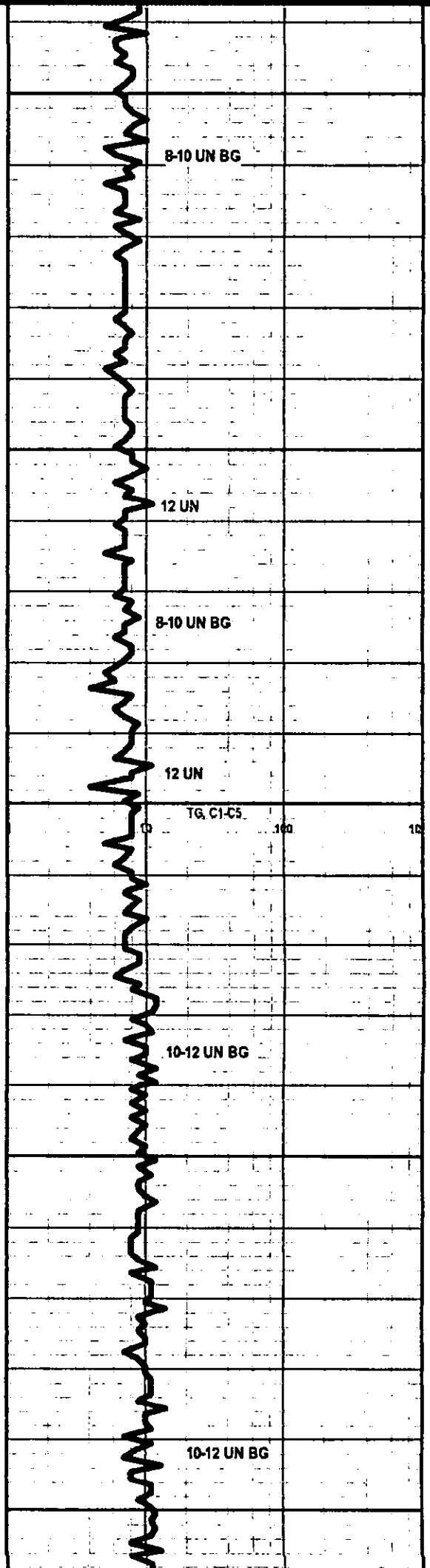
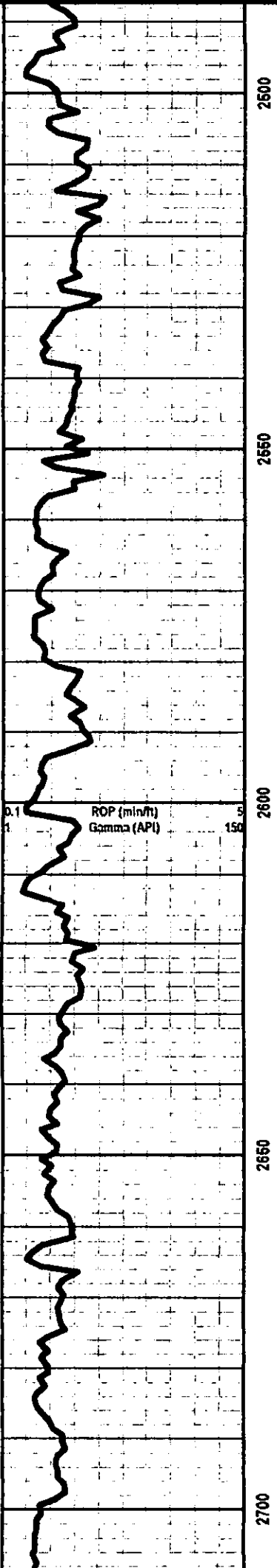












BASE ROOT SHALE 2724' -738'

10-12 UN BG

14 UN

TG, C1-C5

10-12 UN BG

68 UN BG

C1

CN

14 UN

2750

2800

2850

2900

ROP (min/ft) 50
Gamma (API) 150

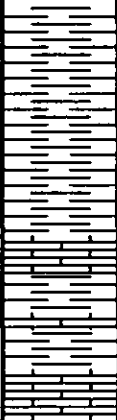
RTS 80
WOB 34
PP 826

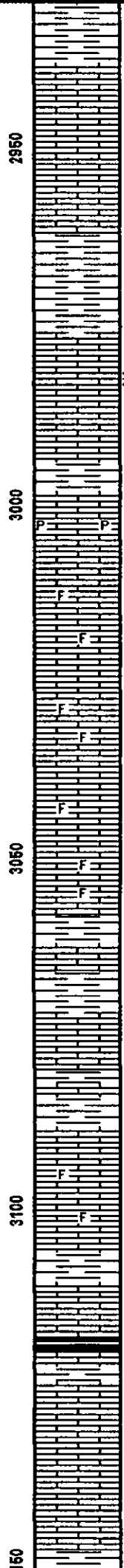
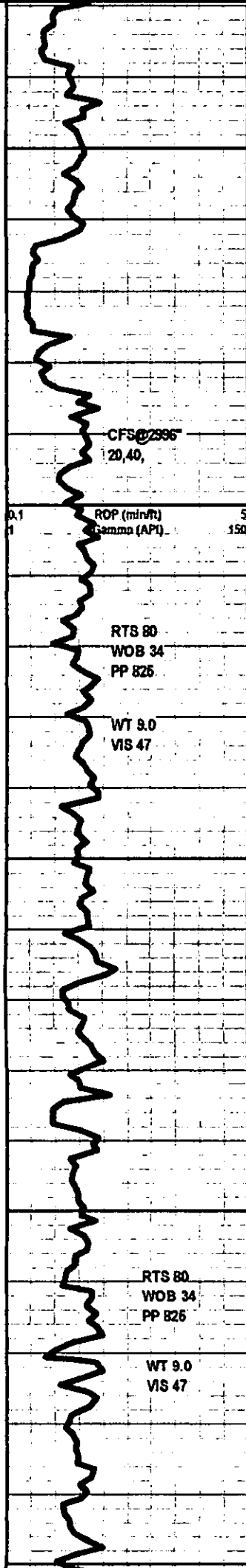
WT 9.0
VIS 47

START 2 MAN LOGGING UNIT 04/29/2010 BY
RODNEY NAPIER

HOWARD 2911' -925'

LS GRY LT GRY TN HD DN BRITT WFN TO FN
XLN MTX TR IMBD SH IP TO DISS GRY SH IP NO
FLO NO VIS POR NO VIS SHOW





SH GRY SLTLY FRM TO SFT SILTY THRU

LS LT GRY DK TN TO TN BUFF MOTT HD DN BRITT WFN TO FN TR MD XLN MTX TR IMBD FOSS IP NO FLO POSS TT INTERXLN POR IP NO CUT NO VIS SHOW

SH LT GRY SFT SILTY THRU

TOPEKA 2976' -990'

LS GRY TN LT TN BUFF HD TO FRM BRITT WFN TO FN TO TR MD XLN MTX RE-XLN MTX TR IMBD FOSS IP TR IMBD SH IP TR WFN LS GRNS IP SCATT TR DULL TO LT YLW FLO IP TR POOR TO FAIR INTERXLN POR TO TR MICRO PP POR IP NO OODR NO STAIN NO CUT NO VIS SHOW

2996' @ 00:01 AM 04/30/2010

SH GRY FRM SMOOTH CALC TO LMY

LS GRY TN LT TN HD DN BRITT CRYPTO TO WFN XLN MTX TR PYR IP NO FLO NO VIS POR NO VIS SHOW

LS TN LT TN HD DN BRITT TO FRM WFN TO FN XLN MTX TR IMBD LS GRNS SUCRO TXT TR IMBD FOSS IP SCATT DULL YLW FLO IP TR POOR INTERXLN POR TO NO POR NO CUT NO VIS SHOW

LS DK GRY TO GRY HD DN CRYPTO TO WFN TO TR MD XLN MTX RE-XLN MTX IP TR IMBD QRTZ XLS TR IMBD FOSS FRG NO FLO NO VIS POR NO VIS SHOW

LS TN LT TN BUFF HD TO FRM BRITT WFN TO FN XLN MTX SUCRO TXT TR IMBD QRTZ XLS TR IMBD CALC XLS IP IMBD FOSS IP DULL YLW FLO POOR INTERXLN POR NO CUT NO VIS SHOW

SH DK GRY TO GRY FRM SMOOTH SPLNTY

Le COMPTON 3079' -1093'

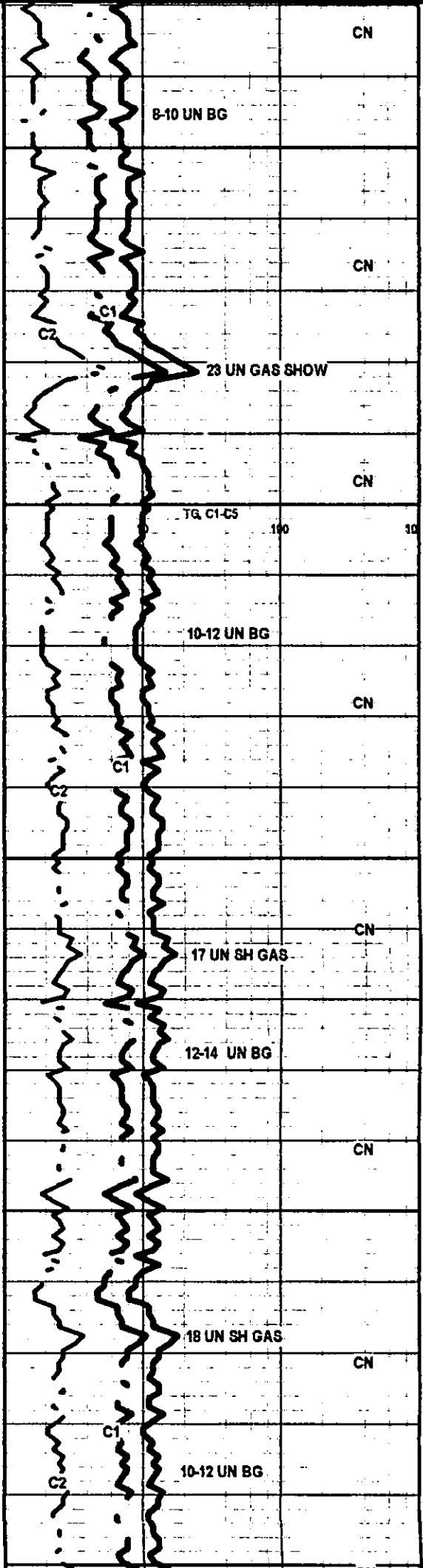
LS TN LT TN BUFF FRM BRITT CRYPTO TO FFN TO FN TR MD XLN MTX RE-XLN MTX IPTR SUB-RND SS GRNS IMBD IP ONLY TR IMBD FOSS FRG LT YLW FLO POOR INTERXLN POR NO CUT NO VIS SHOW

LS GRY DK TN HD DN BRITT CRYPTO XLN MTX TR DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

SH BLK CARB

LS TN LT TN BUFF HD DN BRITT WFN TO FN XLN MTX TR LMNTD SH IP NO FLO NO VIS POR NO VIS SHOW

SH GRY TO LT GRY FRM BLKY



CN

CN

CN

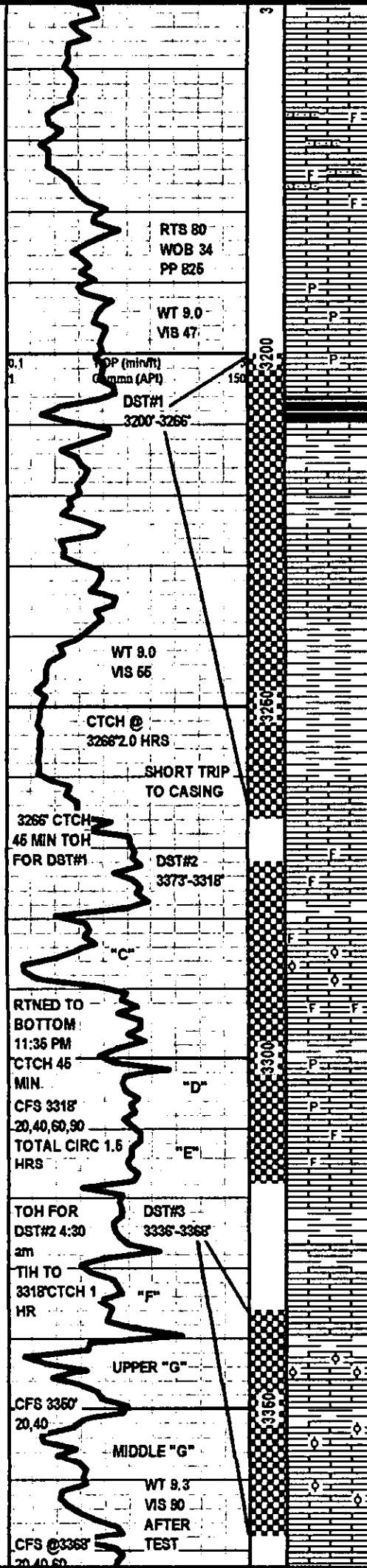
CN

CN

CN

CN

CN



LS TN LT TN CRM BUFF LT GRY IP HD DN
BRITT MOTT CRYPTO TO VFN TO FN XLN MTX
TR IMBD FOSS TR IMBD LS GRNS SUCRO TXT
IP SUB-CHLKY IP DULL YLW FLO TO NO FLO
NO VIS POR NO VIS SHOW

LKS LT TN CRM BUFF HD TO FRM VFN TO FN
XLN MTX ABUNTD IMBD LS GRNS THRU IMBD
FOSS CHLKY THRU LT YLW FLO POOR
INTERXLN TO INTERGRAN POR NO CUT NO VIS
SHOW

LS DK GRY TO GRY DK TN HD DN TT CRYPTO
XLN MTX TR PYR NODULES IN TRAY NO FLO
NO VIS POR NO VIS SHOW

HEEBNER 3206' -1220'

SH GRY FRM BLKY TO LMY

3225'-3229' LS LT TN CRM BUFF FRM BRITT FN TO MD XLN
MTX RE-XLN MTX IMBD QRTZ XLS TR IMBD FOSS DULL
FLO FAIR TO GOOD INTERXLN POR NO ODOR STAIN ON
THREE ROCKS VERY STRONG MILKY BLUE STREAMING
CUT LT YLW GRN RING CUT TO BRN LEACH ON DISH
POOR TO FAIR SHOW

DOUGLAS 3239' -1253'

SH LT GRY VERY SFT SILTY THRU

LANSING 3261' -1275'

3261'-3265' LS LT TN CRM BUFF HD TO FRM BRITT VFN
TO FN XLN MTX SUCRO TXT TR IMBD FOSS IP FAINT
ODOR SLT TR STAIN ON ONE ROCK DULL TO LT BRITE
YLW FLO TR TT INTERXLN POR VRY FAINT FLUSH CUT TT
SHOW

3266' @00:01 AM 05/01/2010

LS DK TN TO TN BUFF HD DN BRITT CRYPTO XLN MTX
THR TR IMBD FOSS NO FLO NO VIS POR NO VIS SHOW

LS TN LT TN CRM BUFF TO OFF WHT HD TO FRM BRITT
VFN TO FN TO MD XLN MTX RE-XLN MTX IMBD QRTZ
XLS IMBD CALC XLS TR IMBD OOLITES TR IMBD FOSS
FRG SUB-CHLKY IP FAIR ODOR STAIN ON 60% OF ROCK
10% OF ROCK SATURATED WITH OIL STAIN TR LIVE OIL
GLDN YLW FLO FAIR TO GOOD INTERXLN POR FAIR
VUGGY POR MICRO PP TO PP POR TR OOMOLDIC POR IP
ONLY INSTANT FLUSH CUT TO STRONG MILKY BLUE TO
YLWISH STRAMING CUT BRN LEACH ON DISH GOOD
SHOW 3280'-3285'

LS LT TN CRM BUFF HD DN BRITT CRYPTO TO VFN XLN
MTX NO FLO NO VIS POR NO VIS SHOW

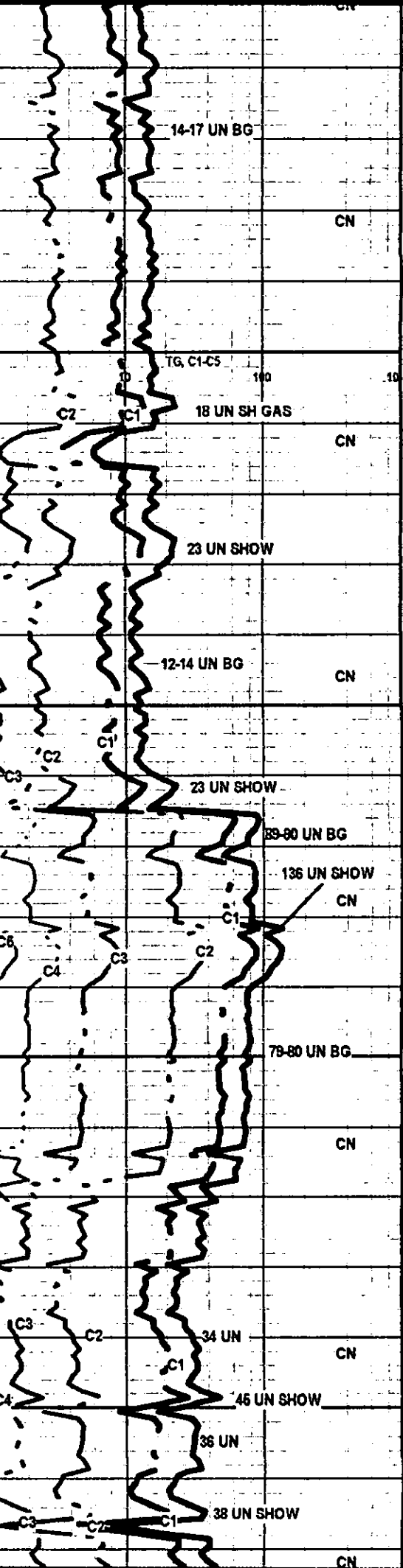
LS CRM BUFF TO OFF WHT HD DN TT CRYPTO TO VFN
XLN MTX IMBD FOSS TR PYR NODULES IN TRAY NO FLO
NO VIS POR NO VIS SHOW

SH GRY FRM BLKY CALC TO LMY

LS CRM BUFF OFF WHT HD DN BRITT CRYPTO TO VFN
TO FN XLN MTX TR DISS GRY SH IP LT TO DULL YLW FLO
TO NO FLO NO VIS POR NO VIS SHOW

LS LT TN CRM BUFF HD TO FRM BRITT VFN TO FN TO
MD XLN MTX UBUNTD IMBD OOLITES TR IMBD FOSS FRG
TR CALC XLS OOMOLDIC IP SUB-CHLKY LT GLDN YLW
FLO ON 50% OF ROCK SATURATED STAIN ON THREE
ROCKS FAINT ODOR FAIR TO GOOD INTERXLN POR TO
POSS FAIR INTER FOSS POR TR MICRO PP TO OOMOLDIC
POR INSTANT FLUSH TO STRONG MILKY BLUE
STREAMING CUT FAIR TO GOOD SHOW 3340'-3347'

LS CRM BUFF OFF WHT HD TO FRM BRITT VFN TO FN
XLN MTX SUCRO TXT TR CALC XLS IMBD TR MD XLN MTX
IP RE-XLN MTX IP ONLY IMBD VRY SMALL OOLITES IP
CHLKY NO ODOR STAIN ON TWO ROCKS LT YLW FLO ON
10% OF ROCKS OOMOLDIC POR TO TR VUG AND MICRO
VUG POR TO MICRO PP POR TWO ROCKS WITH STAIN CUT



CTCH 30
MIN, RETNED
TO DRILLING
7:00 am

ROP (min/ft)
Gamma (API)

CFS@3435'
20,40

WT 9.1
VIS 67

CFS 3574' 20,40,60

3400
3450
3500
3550



STRONG MILKY BLUE STREAMING CUT POOR POSS WET
SHOW 3351'-3368'

LS LT TN LT GRY CRM BUFF HD DN BRITT CRYPTO TO
VFN XLN MTX NO FLO NO VIS POR NO VIS SHOW
3368'-3377'

LS CRM BUFF OFF WHT HD FRM BRITT VFN TO FN XLN
MTX TR IMBD LS GRNS TR IMBD QRTZ XLS TO TR IMBD
OOLITES TR DULL YLW FLO IP TO NO FLO SUB-CHLKY TR
POSS INTERXLN POR TO NO POR NO CUT NO VIS SHOW
3387'-3385'

LS LT TN LT GRY BUFF MOTT HD DN BRITT CRYPTO TO
VFN XLN MTX TO FN XLN MTX SUCRO TXT TR IMBD
FOSS IP TR PYR IP NO FLO NO VIS POR NO VIS SHOW
3385'-3387'

LS LT TN CRM BUFF TO OFF WHT HD TO FRM VFN TO FN
RE-XLN MTX IP TR IMBD FOSS FRG IP TO TR IMBD
OOLITES IP ONLY SUB-CHLKY IP SUCRO TXT IP TR IMBD
QRTZ XLS IP SCATT DULL YLW TO LT YLW FLO IN 50% OF
ROCK TR OIL STAIN ON 10% OF ROCKS FAINT ODOR TR
MICRO PP POR POSS TT INTERXLN POR POOR SLOW
MILKY BLUE STREAMING CUT TO LT YLWRING CUT
POOR LOOKS TT SHOW 3404'-3402'

LS LT TN LT GY BUFF HD TO FRM BRITT CRYPTO TO
VFN TO FN XLN MTX RE-XLN MTX IP TR LT WHT CHERT
IP TR PYR NODULES IN TRAY NO FLO TR WHT TT
INTERXLN POR TO NO POR NO CUT NO VIS SHOW
3402'-3407'

LS CRM BUFF OFF WHT HD DN CRYPTO TO VFN XLN MT
TR PYR NODULES IN TRAY NO FLO NO VIS POR NO ODOR
NO STAIN NO CUT NO VIS SHOW 3424'-3435'

LS DK TN TO TN LT TN BUFF HD DN TT CRYPTO TO VFN
XLN MTX IMBD FOSS FRG TR LT WHT TO OPAQUE CHERT
IP NO FLO NO VIS POR NO VIS SHOW 3442'-3457'

LS CRM BUFF OFF WHT HD DN FRM BRITT VFN TO FN
XLN MTX SUCRO TXT IP SUB-CHLKY IP TR IMBD LS GRNS
IP TR DISS GRY SH IP DULL YLW FLO IP TO NO FLO NO VIS
POR NO VIS SHOW 3454'-3467'

LS LT TN LT GRY BUFF MOTT HD DN CRYPTO TO VFN XLN
MTX THRU TR LMNTD PYR IP NO FLO NO VIS POR NO VIS
SHOW
SH DK GRY DK BRN FRM BLKY CALC WITH TR PYR IP

LS LT TN CRM BUFF HD DN CRYPTO TO VFN TO FN XLN
MTX MD XLN MTX IP RE-XLN MTX IMBD FOSS DISS DK
BRN SH IP NO FLO NO VIS POR NO VIS SHOW

BKC 3491' -1505'

LS GRY TN LT TN BUFF HD DN TT CRYPTO TO
VFN XLN MTX DISS DK GRY TO BLK SH IP TR
LT TN TO ORNG CHERT IP NO FLO NO VIS
POR NO VIS SHOW

SH GRY BRN FRM BLKY CALC TO SMOOTH
SPLNTY

LS TN LT TN CRM BUFF HD DN BRITT VFN TO
FN TO DM XLN MTX RE-XLN MTX TR IMBD LS
GRNS IP TR IMBD FOSS LMNTD PYR IP NO FLO
NO VIS POR NO VIS SHOW

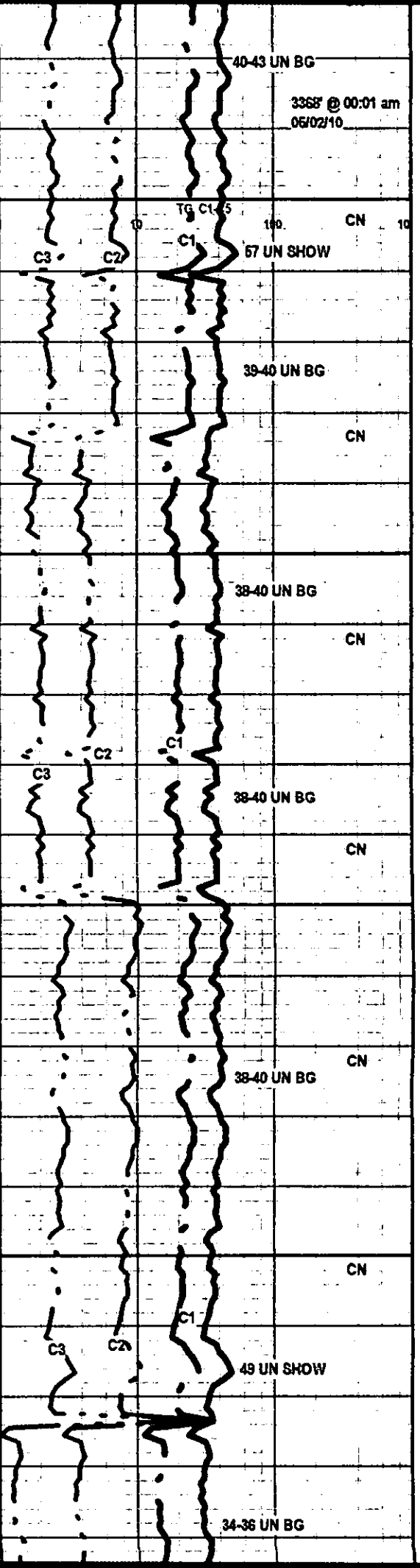
SH DK BRN TO RED FRM BLKY LMY IP SFT TO
SILTY

LS LT TN CRM BUFF FN XLN MTX TR IMBD LS
GRNS IMBD FOSS LMNTD PYR TO DISS BRN SH
IP NO FLO NO VIS POR NO VIS SHOW

ARBUCKLE 3559' -1673'

DOL OFF WHT TO WHT LT GRY TINT IP HD TO BRITT FN
TO MD XLN MTX RE-XLN MTX THRU IMBD CLEAR TO
FRSTY ANG TO SUB-ANG SMALL MD TO LG QRTZ XLS
IMBD AND CLUSTERS CMNT WITH DOL CMNT TR IMD PYR
AND MICA IP TO LMNTD PYR IP TR LIVE OIL POOR TO FAIR
ODOR TR DULL YLW FLO IP STAIN ON 75% OF ROCK
POOR TO FAIR INTERXLN POR TO MICRO PP POR
INSTANT FLUSH TO STRONG VRY STRONG MILKY BLUE
STREAMING CUT 3559'-3567'

DOL CRM OFF WHT TO WHT HD TO FRM BRITT VFN TO
FN XLN MTX SUCRO TEXT WITH VRY SMALL DOL GRNS
IMBD LT YLW FLO TR STAIN FAINT ODOR FAIR INTERXLN
POR TO PP AND MICRO PP POR FAIR FLUSH CUT TO FAIR



40-43 UN BG

3368' @ 00:01 am
05/02/10

180 CN 10

57 UN SHOW

39-40 UN BG

CN

38-40 UN BG

CN

38-40 UN BG

CN

38-40 UN BG

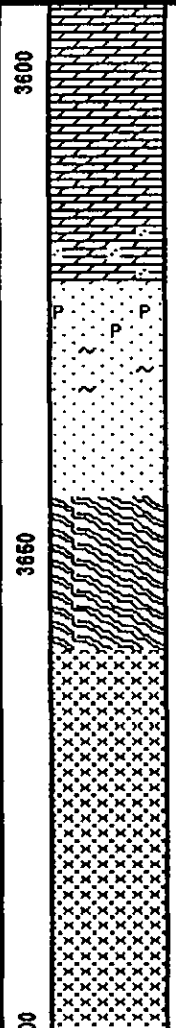
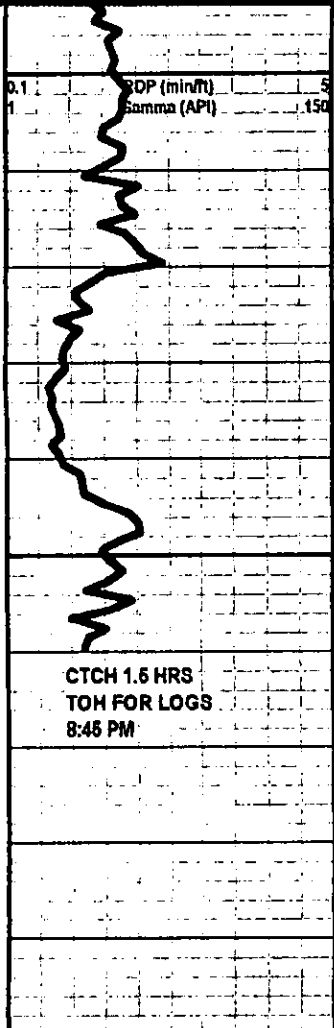
CN

38-40 UN BG

CN

49 UN SHOW

34-36 UN BG



MILKY BLUE STREAMING CUT. 3567'-3574'

DOL OFF WHT TO WHT HD DN BRITT VFN TO FN XLN MTX RE-XLN MTX IP IMBD DOL GDNS SUB-CHLKY TO CHLKY SCATT TR FAINT LT YLW FLO POOR TO FAIR INTERXLN POR TR VUG POR IP NO ODOR NO STAIN NO CUT NO VIS SHOW 3474'-3600'

DOL OFF WHT TO WHT LT GRY IP HD DN BRITT CRYPTO TO VFN TO FN XLN MTX TR IMBD SUB-RND TO RND SS GRNS IP IMBD QRTZ XLS IP NO FLO NO VIS POR NO ODOR NO STAIN NO CUT NO VIS SHOW 3600'-3620'

SS CLR FRSTY WHT SUB-ANG TO SUB-RND TO RND W/SMALL TO SMALL SS GRNS POOR SORT WITH DOLMITIC CMNT IMBD CLEAR AND FRSTY WHT FN TO MD QRTZ XLS TR LMNTD PYR IP TR GLAC NO FLO POOR TO FAIR INTERGRAN POR NO ODOR NO FLO NO STAIN NO CUT NO VIS SHOW 3620'-3630'

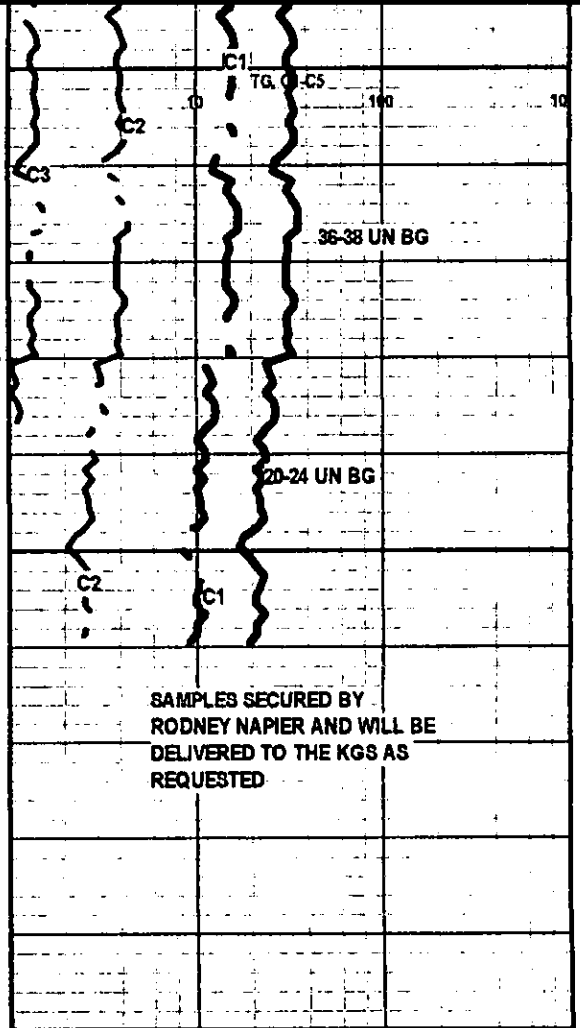
SS CLR TO FRSTY WHT SMALL TO MD SUB-ANG TO RND TO SUB-RND SS GRNS WITH SILICIOUS TO DOL CMNT TR UNCONSOLIDATED VRYSMALL RND CLEAR SS GRNS LOOSE IN TRAY NO FLO POOR TO FAIR INTERGRAN POR NO ODOR NO STAIN NO CUT NO VIS SHOW 3630'-3643'

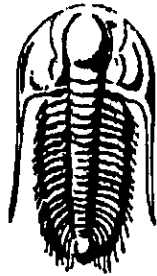
META LT GRY TO PINK DK GRY TO ALMOST BLK WITH QRTZITE FSTY WHT TO TRANSPERENT FELDSPAR ORNG BRN

TD 3660' 7:15 PM 05/02/2010

**LOG COMPLETED BY
RODNEY NAPIER**

**THANK YOU FOR CHOOSING
EARTHTECH OGL INC**





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

34-16s-16w Rush KS

D.T.Z 1-34

Start Date: 2010.04.30 @ 14:41:19

End Date: 2010.04.30 @ 21:36:49

Job Ticket #: 38607 DST #: 1

**KCC
AUG 20 2010
CONFIDENTIAL**

**RECEIVED
AUG 23 2010
KCC WICHITA**

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

Samuel Gary Jr. & Associates, Inc.

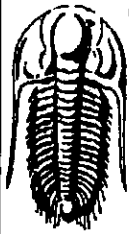
D.T.Z 1-34

34-16s-16w Rush KS

DST # 1

Toronto & Lansing "A"

2010.04.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38607

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.04.30 @ 14:41:19

GENERAL INFORMATION:

Formation: **Toronto & Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:11:49

Time Test Ended: 21:36:49

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: 3200.00 ft (KB) To 3266.00 ft (KB) (TVD)

Reference Elevations: 1986.00 ft (KB)

Total Depth: 3266.00 ft (KB) (TVD)

1976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6668

Inside

Press@RunDepth: 208.82 psig @ 3206.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.30

End Date: 2010.04.30

Last Calib.: 2010.04.30

Start Time: 14:41:20

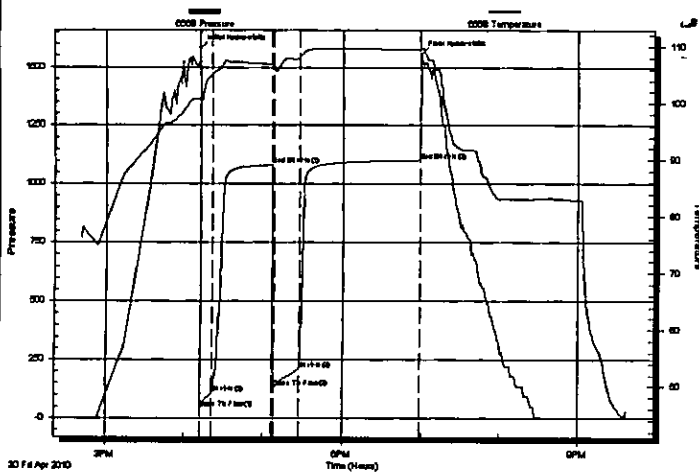
End Time: 21:36:49

Time On Btm: 2010.04.30 @ 16:11:19

Time Off Btm: 2010.04.30 @ 18:59:49

TEST COMMENT: IFF- Strong blow BOB in 2 min
ISI- Strong blow back BOB in 14 min
FFP- Strong blow BOB in 30sec Gas to surface in 18 min
FSI- Strong blow back BOB in 30 sec

Pressure vs. Time



PRESSURE SUMMARY

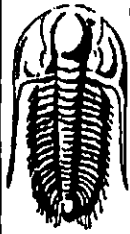
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.87	100.79	Initial Hydro-static
1	42.66	100.22	Open To Flow (1)
10	107.30	105.19	Shut-In(1)
55	1082.10	106.96	End Shut-In(1)
57	129.55	106.10	Open To Flow (2)
76	208.82	108.06	Shut-In(2)
168	1101.94	109.42	End Shut-In(2)
169	1554.00	109.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	HGOCM10%G30%O60%M	2.65
63.00	HGOCM55%G30%O15%M	0.88
63.00	HGOCM 10%G 30%O 60%M	0.88
0.00	2898 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. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38607

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.04.30 @ 14:41:19

Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3200.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3173.00	
Shut In Tool	5.00			3178.00	
Hydraulic tool	5.00			3183.00	
Jars	5.00			3188.00	
Safety Joint	2.00			3190.00	
Packer	5.00			3195.00	28.00 Bottom Of Top Packer
Packer	5.00			3200.00	
Stubb	1.00			3201.00	
Perforations	4.00			3205.00	
Change Over Sub	1.00			3206.00	
Recorder	0.00	6668	Inside	3206.00	
Recorder	0.00	6669	Outside	3206.00	
Blank Spacing	31.00			3237.00	
Change Over Sub	1.00			3238.00	
Perforations	25.00			3263.00	
Bullnose	3.00			3266.00	66.00 Bottom Packers & Anchor
Total Tool Length:	94.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38607

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.04.30 @ 14:41:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
189.00	HGOCM10%G30%O60%M	2.651
63.00	HGOCM55%G30%O15%M	0.884
63.00	HGOCM 10%G 30%O 60%M	0.884
0.00	2898 GIP	0.000

Total Length: 315.00 ft

Total Volume: 4.419 bbf

Num Fluid Samples: 0

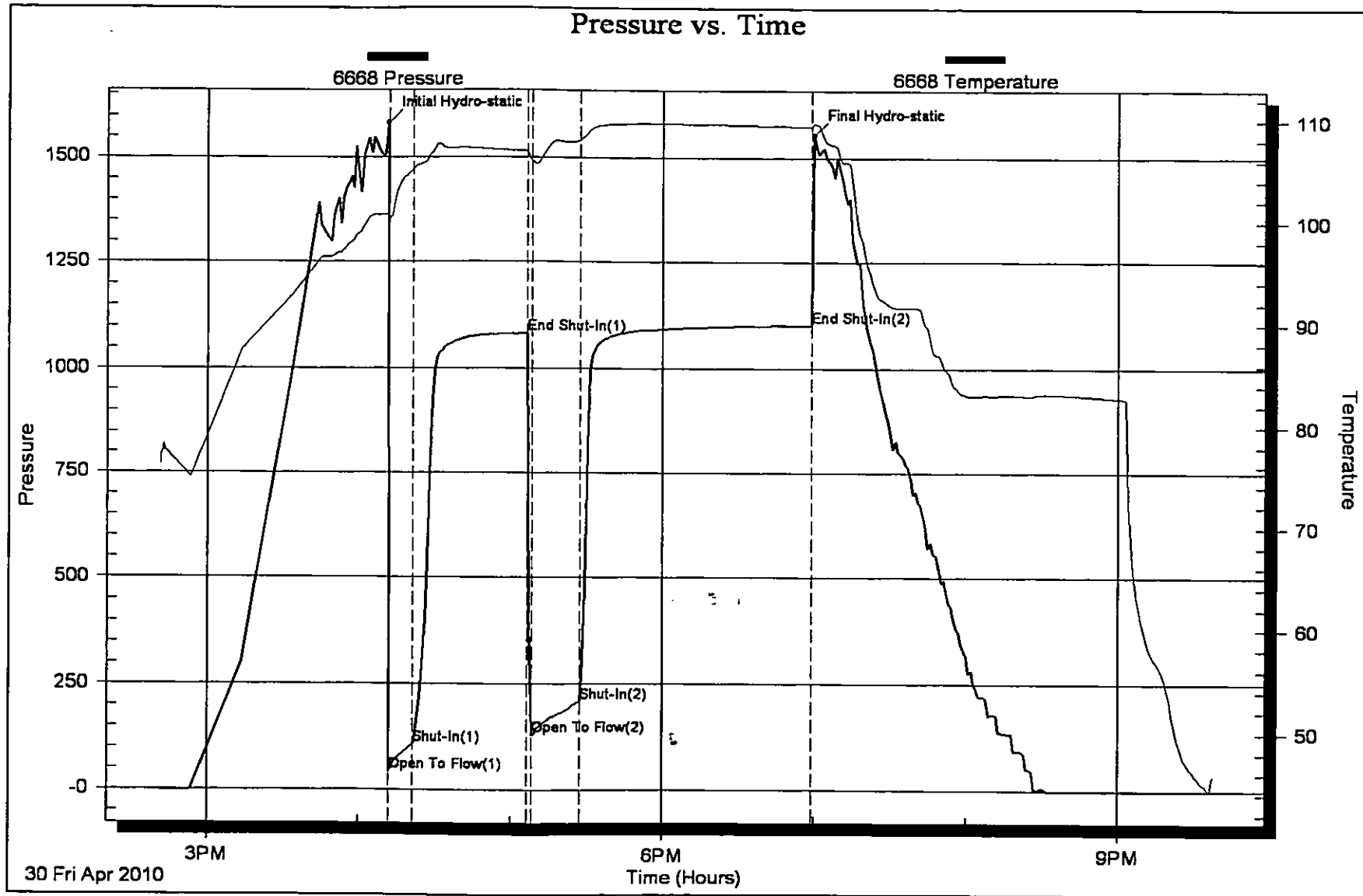
Num Gas Bombs: 0

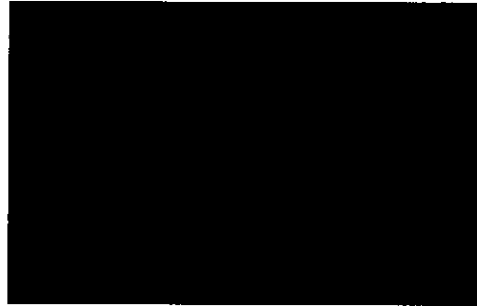
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

34-16s-16w Rush KS

D.T.Z 1-34

Start Date: 2010.05.01 @ 05:48:34

End Date: 2010.05.01 @ 13:00:04

Job Ticket #: 38608 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Samuel Gary Jr. & Associates, Inc.

D.T.Z 1-34

34-16s-16w Rush KS

DST # 2

Lansing "C"

2010.05.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38608 DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.05.01 @ 05:48:34

GENERAL INFORMATION:

Formation: Lansing "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:45:04

Time Test Ended: 13:00:04

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: 3273.00 ft (KB) To 3318.00 ft (KB) (TVD)

Total Depth: 3318.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1986.00 ft (KB)

1976.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6668

Inside

Press@RunDepth: 83.19 psig @ 3279.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.01 End Date: 2010.05.01

Last Calib.: 2010.05.01

Start Time: 05:48:35 End Time: 13:00:04

Time On Btm: 2010.05.01 @ 07:44:34

Time Off Btm: 2010.05.01 @ 10:45:04

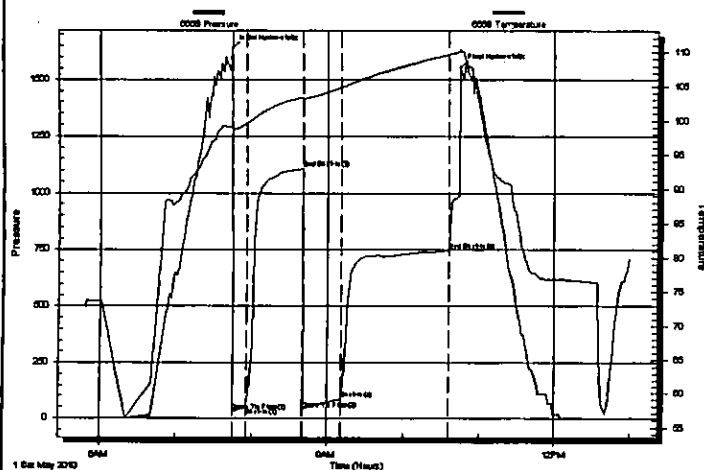
TEST COMMENT: IFF- Strong blow BOB in 1 1/2 min Gas to surface in 8 min

ISF- Strong blow back BOB in 37 min

FFP- Strong blow BOB in 30 sec

FSF- Strong blow back BOB in 12 min

Pressure vs. Time



PRESSURE SUMMARY

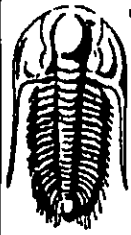
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.56	99.14	Initial Hydro-static
1	30.51	98.29	Open To Flow (1)
11	47.76	99.55	Shut-In(1)
56	1108.10	103.41	End Shut-In(1)
57	39.28	103.23	Open To Flow (2)
86	83.19	104.84	Shut-In(2)
172	747.06	109.65	End Shut-In(2)
181	1555.23	110.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCGM20%O35%G45%M	0.88
63.00	HOCGM40%O30%G30%M	0.88
141.00	CLEAN OIL	1.98
0.00	3072 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. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38608

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.05.01 @ 05:48:34

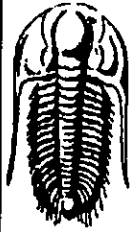
Tool Information

Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 45.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3273.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3246.00	
Shut In Tool	5.00			3251.00	
Hydraulic tool	5.00			3256.00	
Jars	5.00			3261.00	
Safety Joint	2.00			3263.00	
Packer	5.00			3268.00	28.00 Bottom Of Top Packer
Packer	5.00			3273.00	
Stubb	1.00			3274.00	
Perforations	4.00			3278.00	
Change Over Sub	1.00			3279.00	
Recorder	0.00	6668	Inside	3279.00	
Recorder	0.00	6669	Outside	3279.00	
Blank Spacing	31.00			3310.00	
Change Over Sub	1.00			3311.00	
Perforations	4.00			3315.00	
Bullnose	3.00			3318.00	45.00 Bottom Packers & Anchor
Total Tool Length:	73.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38608

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.05.01 @ 05:48:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in*

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	OCGM20%O35%G45%M	0.884
63.00	HOCGM40%O30%G30%M	0.884
141.00	CLEAN OIL	1.978
0.00	3072 GIP	0.000

Total Length: 267.00 ft

Total Volume: 3.746 bbl

Num Fluid Samples: 0

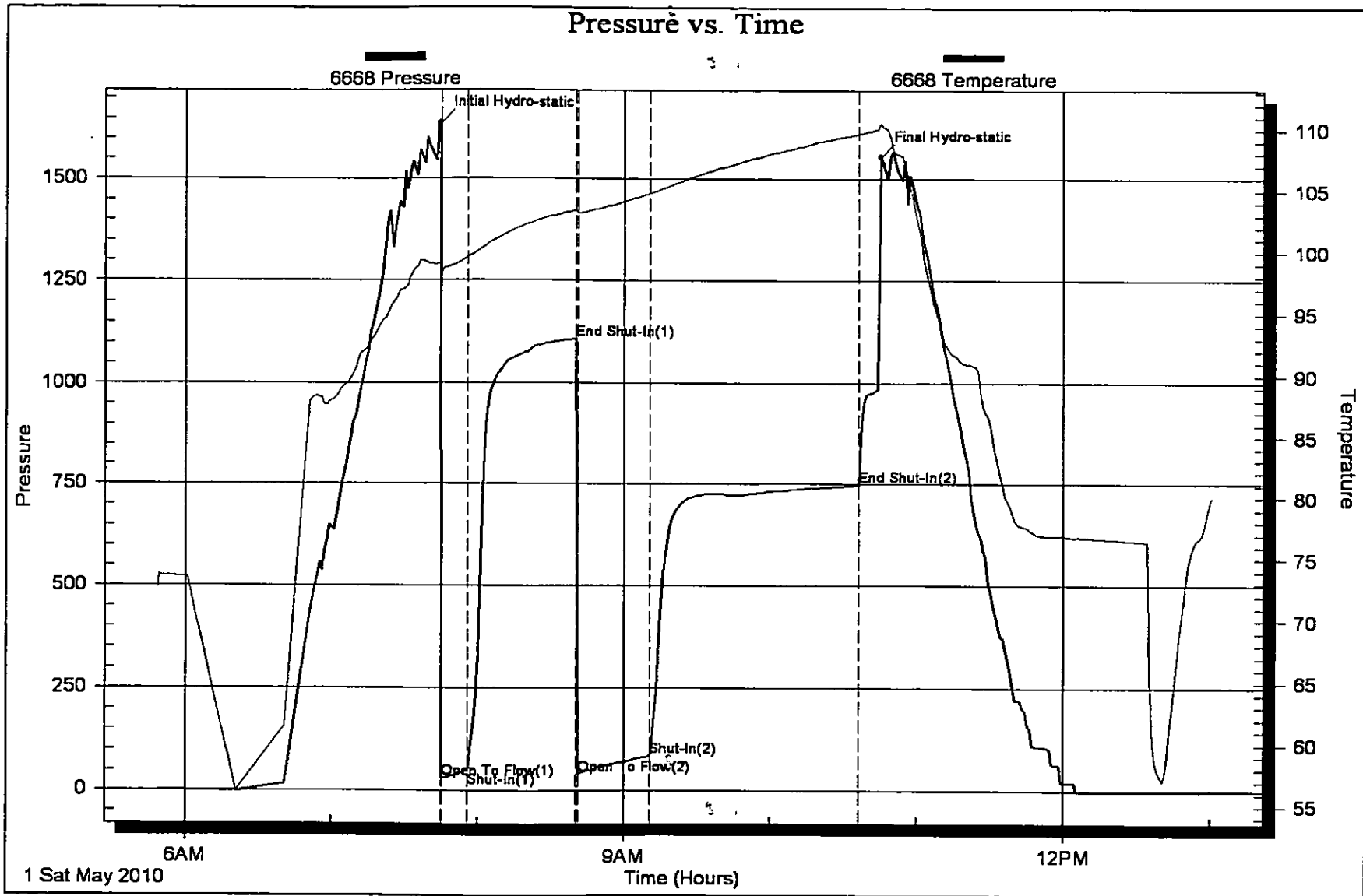
Num Gas Bombs: 0

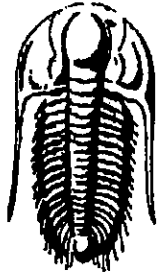
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

34-16s-16w Rush KS

D.T.Z 1-34

Start Date: 2010.05.01 @ 21:18:40

End Date: 2010.05.02 @ 04:43:10

Job Ticket #: 38609 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Samuel Gary Jr. & Associates, Inc.

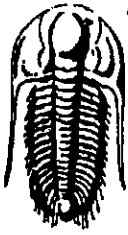
D.T.Z 1-34

34-16s-16w Rush KS

DST # 3

Lansing "G"

2010.05.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38609

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.05.01 @ 21:18:40

GENERAL INFORMATION:

Formation: **Lansing "G"**

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

Time Tool Opened: 22:59:40

Time Test Ended: 04:43:10

Test Type: **Conventional Bottom Hole**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **3336.00 ft (KB) To 3368.00 ft (KB) (TVD)**

Reference Elevations: **1986.00 ft (KB)**

Total Depth: **3368.00 ft (KB) (TVD)**

1976.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **10.00 ft**

Serial #: **6668**

Inside

Press@RunDepth: **193.34 psig @ 3340.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.05.01**

End Date: **2010.05.02**

Last Calib.: **2010.05.02**

Start Time: **21:18:41**

End Time: **04:43:10**

Time On Btm: **2010.05.01 @ 22:59:10**

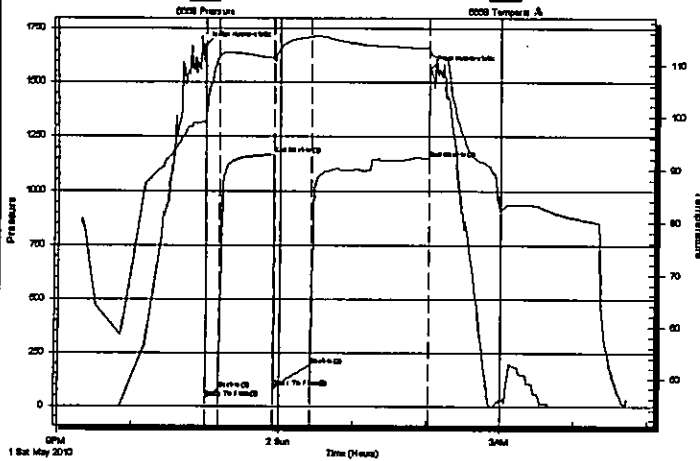
Time Off Btm: **2010.05.02 @ 02:02:10**

TEST COMMENT: IFP-Strong blow BOB in 1 1/2 min
ISL-Weak blow back Built to 3 1/4 in
FFP-Strong blow back BOB in 8 min
FSI-Strong blow BOB in 1 1/2 min

v1

v2

Pressure vs. Time



PRESSURE SUMMARY

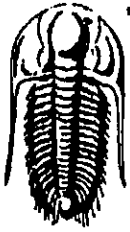
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.71	99.58	Initial Hydro-static
1	34.45	99.50	Open To Flow (1)
12	76.70	111.59	Shut-In(1)
56	1166.70	111.29	End Shut-In(1)
57	84.70	110.79	Open To Flow (2)
86	193.34	115.27	Shut-In(2)
182	1149.72	113.23	End Shut-In(2)
183	1561.81	112.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	WATER	2.65
252.00	MCGWO15%G70%O10%W5%M	3.53
15.00	HGOCVM10%G35%O15%W40%M	0.21
0.00	1750 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. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38609

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.05.01 @ 21:18:40

Tool Information

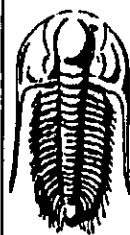
Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 46.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3336.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3309.00	
Shut In Tool	5.00			3314.00	
Hydraulic tool	5.00			3319.00	
Jars	5.00			3324.00	
Safety Joint	2.00			3326.00	
Packer	5.00			3331.00	28.00 Bottom Of Top Packer
Packer	5.00			3336.00	
Stubb	1.00			3337.00	
Perforations	3.00			3340.00	
Recorder	0.00	6668	Inside	3340.00	
Recorder	0.00	6669	Outside	3340.00	
Perforations	25.00			3365.00	
Bullnose	3.00			3368.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

D.T.Z 1-34

1515 Wynkoop, Ste 700
Denver Co 80202

34-16s-16w Rush KS

Job Ticket: 38609

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.05.01 @ 21:18:40

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:

32000 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
189.00	WATER	2.651
252.00	MCGWO15%G70%O10%W5%M	3.535
15.00	HGOCVM10%G35%O15%W40%M	0.210
0.00	1750 GIP	0.000

Total Length: 456.00 ft

Total Volume: 6.396 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

* Recovery Comments: RW .30 @ 49.4F = 32000 chlorides

Serial #: 6668

Inside Samuel Gary Jr. & Associates, Inc.

34-16s-16w Rush KS

DST Test Number: 3

