

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2: _____
City: DENVER State: CO Zip: 80202 + _____
Contact Person: CLAYTON CAMOZZI
Phone: (303) 831-4673
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: TIM HEDRICK
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>07/27/2010</u>	<u>08/05/2010</u>	<u>08/13/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-21891-00-00
Spot Description: _____
SW_NW_SW_NE Sec. 3 Twp. 17 S. R. 16 East West
1830 Feet from North / South Line of Section
2500 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Rush
Lease Name: YARMER ET AL Well #: 1-3
Field Name: _____
Producing Formation: LANSING
Elevation: Ground: 1974 Kelly Bushing: 1984
Total Depth: 3718 Plug Back Total Depth: 3577
Amount of Surface Pipe Set and Cemented at: 1086 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 44000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: SAM GARY JR & ASSOCIATES
Lease Name: MATTHAEI TRUST License #: 3882
Quarter SW Sec. 19 Twp. 18 S. R. 9 East West
County: RICE Permit #: 15165218810000

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: 11/23/2010
 Confidential Release Date: 11/22/2012
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 11/30/2010



1047365

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: YARMER ET AL Well #: 1-3
 Sec. 3 Twp. 17 S. R. 16 East West County: Rush

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>TOPEKA</td> <td>2971</td> <td>-2971</td> </tr> <tr> <td>HEEBNER</td> <td>3203</td> <td>-1219</td> </tr> <tr> <td>DOUGLAS</td> <td>3235</td> <td>-1251</td> </tr> <tr> <td>LANSING</td> <td>3259</td> <td>-1275</td> </tr> <tr> <td>ARBUCKLE</td> <td>3582</td> <td>-1598</td> </tr> <tr> <td>TD</td> <td>3718</td> <td></td> </tr> </tbody> </table>	Name	Top	Datum	TOPEKA	2971	-2971	HEEBNER	3203	-1219	DOUGLAS	3235	-1251	LANSING	3259	-1275	ARBUCKLE	3582	-1598	TD	3718	
Name	Top	Datum																				
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DOUGLAS	3235	-1251																				
LANSING	3259	-1275																				
ARBUCKLE	3582	-1598																				
TD	3718																					

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	12.25	8.625	23	1086	CLASS A	400	3% CC, 2% GEL
PRODUCTION	7.875	5.5	15.5	3719	ECON-O-BOND	150	4% GEL, 2% CC

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3404'-12'	2000 gallons of 20% NE and loaded hole w/ lease water	3404'-12'
4	3506'-11'	500 gal of 20% MCA w/ 3% MAS and loaded hole w/ produced water to surface	3506'-11'

TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>3710'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>08/26/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls. <u>15</u>	Gas Mcf	Water Bbls. <u>0</u>	Gas-Oil Ratio
				Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>3404'-3511' OA</u>
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	YARMER ET AL 1-3
Doc ID	1047365

All Electric Logs Run

MICRO-RESISTIVITY LOG
COMPENSATED SONIC W/ INTEGRATED TRANSIT TIMES
ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG
COMPACT PHOTO DENSITY COMPENSATED NEUTRON LOG



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

November 23, 2010

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

Re: ACO1
API 15-165-21891-00-00
YARMER ET AL 1-3
NE/4 Sec.03-17S-16W
Rush County, Kansas

Dear Production Department:

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

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

Respectfully,
CLAYTON CAMOZZI



QUALITY OILWELL CEMENTING, INC.

240 West Wichita Ave. Russell KS 67665
 Phone: 785 334 1041 Fax: 785 483 4087
 Email: cementing@ruratel.net
 Draft Location 620 388 3422

Date: 8/4/2010
 Invoice # 4099

P.O.#:
 Due Date: 9/3/2010
 Division:

Invoice

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

DRLG COMP W/O LOE
 AFE # _____
 ACCT. # 8200-138
 APPROVED BY KJS

Reference:
 YARMER ET AL 1-3

Description of Work:

Services / Items Included:	Quantity	Price	Item	Quantity	Price
Surface Job	1	\$0.00			
Truck Material-Service Charge	32	\$251.59			
Premium Gel (Bentonite)	8	\$112.62	8 5/8" Top Rubber Plug	1	\$91.66
Flo Seal	100	\$172.95	8 5/8" Centralizer	3	\$166.03
Common-Class A	400	\$4,046.96	8 5/8" Basket	3	\$819.77
Calcium Chloride	14	\$0.00			
Truck Material-Service Charge	32	\$147.22			
Truck Material-Service Charge	422	\$664.91			
Baffle Plate Aluminum, 8 5/8"	1	\$77.83			

Invoice Terms:
 Net 30
 Labor: \$548.34

Quoted by: Dave Funk
 SubTotal: \$ 8,228.85
 Discount Available ONLY if Invoice is Paid &
 Received within listed terms of invoice: \$ (1,234.33)
 Total: \$ 6,994.53
 Tax: \$ 560.74
 \$ 7,555.27
 Applied Payments:
 Balance Due: \$ 7,555.27

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.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

RECEIVED

AUG 23 2010

SAMUEL GARY JR.
 & ASSOCIATES, INC.

QUALITY OILWELL CEMENTING, INC.

No. 4099

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

Phone 785-463-2025
Cell 785-324-1041

Date	7-28-2010	Sec.	3	Twp.	17	Range	16	County	Rush	State	Ks	On Location		Finish	10:15
Lease	Parker ET AL.			Well No.	#1-3			Location			Galatia, Ks 5W to C.R. 390, 2S				
Contractor	Oil Energy Rig #6			Owner	W. 3/4 S, W/4										
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.	1086'										
Csg.	8 5/8"			Depth	1086'										
Tbg. Size				Depth											
Tool				Depth											
Cement Left in Csg.	17-27'			Shoe Joint	17-27'										
Meas Line				Displace	1086' 67'										
EQUIPMENT												The above was done to satisfaction and supervision of owner agent or contractor.			
Pumptrk	9	No.		Cementor	Deake										
Bulktrk	12	No.		Helper	3										
Bulkpick	1	No.		Driver	DOWNEY										
				Driver	RICK										
JOB SERVICES & REMARKS															
Remarks:	Cement Did Circulate														
Rat Hole															
Mouse Hole															
Centralizers	3 - 8 7/8"														
Baskets	3 - 8 5/8"														
D/V or Port Collar															
Cut displacement 1000s due to short shoe job															

Cement Amount Ordered	400 lb Common 3/4" Flowseal		
Common	400		
Poz. Mix			
Gel.	3		
Calcium	1/4		
Hulls			
Salt			
Flowseal	100#		
Kol-Seal			
Mud CLR 48			
CFL-117 or CD110 CAF 38			
Sand			
Handling	172		
Mileage			

FLOAT EQUIPMENT			
Grade Shoe			
Centralizer	3 - 8 5/8"		
Baskets	3 - 8 5/8"		
AFU Inserts			
Float Shoe			
Latch Down			
	1 - 8 5/8" Baffle plate		
	1 - 8 5/8" Baffle plug		
Pumptrk Charge	Long Outlets		
Mileage	32		

Signature *E. J. D. M. [unclear]*

Tax
DISCOUNT
Total Charge



BASIC
ENERGY SERVICES

COPY

PAGE	CUST NO	INVOICE DATE
1 of 1	1003682	08/09/2010
INVOICE NUMBER		
1718 - 90379374		

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 Yarmer 1-3
 O LOCATION
 B COUNTY Rush
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40215671	19905		Net - 30 days	09/08/2010
For Service Dates: 08/05/2010 to 08/05/2010				
0040215671			<input type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE AFE # _____ ACCT. # <u>8200-138</u> APPROVED BY <u>[Signature]</u>	
171802226A Cement-New Well Casing/Pi 08/05/2010 CNW-5 1/2" Longstring				
			QTY U of M UNIT PRICE	INVOICE AMOUNT
60/40 POZ			75.00 EA 7.56	566.98 T
50/50 POZ			150.00 EA 6.93	1,039.47 T
Cello-flake			37.00 EA 2.33	86.24 T
Calcium Chloride			252.00 EA 0.66	166.69 T
Cal-Set			750.00 EA 0.47	354.36 T
FLA-322			121.00 EA 4.72	571.71 T
Cement Gel			252.00 EA 0.16	39.69 T
Gilsonite			1,125.00 EA 0.42	474.85 T
CS-1L, KCl Substitute			4.00 EA 22.05	88.20 T
Super Flush II			500.00 EA 0.96	481.94 T
Latch Down Plug & Baffle			1.00 EA 251.99	251.99
Auto Fill Float Shoe			1.00 EA 226.79	226.79
Turbolizer			8.00 EA 69.30	554.38
Heavy Equipment Mileage			170.00 MI 4.41	749.68
Proppant & Bulk Delivery Charges			812.00 MI 1.01	818.47
Blending & Mixing Service Charge			225.00 MI 0.88	198.44
Unit Mileage Charge-Pickups, Vans & Cars			85.00 HR 2.68	227.58
Depth Charge: 3001'-4000'			1.00 HR 1,360.77	1,360.77
Casing Swivel Rental			1.00 EA 126.00	126.00
Plug Container Utilization Charge			1.00 EA 157.50	157.50
Service Supervisor			1.00 HR 110.25	110.25

RECEIVED

AUG 23 2010

SAMUEL GARY JR.
& ASSOCIATES, INC.

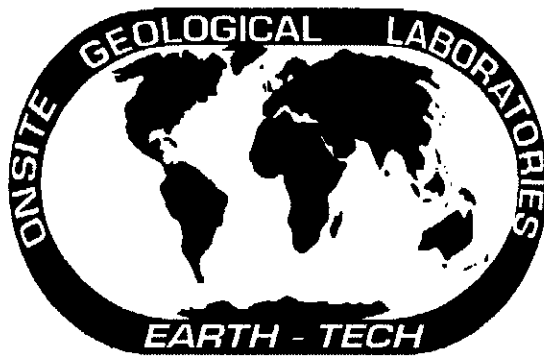
PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,651.98
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	243.82
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	8,895.80
DALLAS, TX 75284-1903	MIDLAND, TX 79702		

Customer 3000 G... Lease Farmer	Lease No. 1-3	Date 5-5-10			
Field Order # 2000	Station Pratt, Kansas	Casing 15.50	Depth 3717	County Pratt	State Kansas
Type Job C.M.W.	Formation	Legal Description			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth	Depth	From	To	Brine	Max			5 Min.
Volume	Volume	From	To	Brine	Min			10 Min.
Max Press	Max Press	From	To	Brine	Avg			15 Min.
Well Connection	Annulus Vol.	From	To	Flush	HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To		Gas Volume			Total Load

Customer Representative	Station Manager	Treater
Service Units		
Water		
Chemicals		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:00					
8:10					
8:20					
8:30					
8:40					
8:50					
9:00					
9:10					
9:20					
9:30					
9:40					
9:50					
10:00					
10:10					
10:20					
10:30					
10:40					
10:50					
11:00					
11:10					
11:20					
11:30					
11:40					
11:50					
12:00					



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

Well Name: YARMER ET Al 1-3
Location: SEC 3 17S 16W
License Number: API 15-165-21891-00-00
Spud Date: 07/28/2010
Surface Coordinates: 1830' FNL 2500' FEL

Region: WILDCAT
Drilling Completed: 08/04/2010

Bottom Hole Coordinates:

Ground Elevation (ft): 1974 K.B. Elevation (ft): 1984
Logged Interval (ft): 1700 To: 3720' Total Depth (ft): 3720'
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: Clayton Camozz

GEOLOGIST

Name: RODNEY NAPIER/ TYLER SARYERWINNIE
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 620-655-2050

Circulation Report

START UN MANNED UNIT 07/30/2010

START MANNED UNIT 07/31/2010

CTCH 3265' 1.5 HRS

SHORT TRIP 3265'

CFS 3299' 20,40,60

CFS 3324' 20,40,60

CTCH 3324' DST#1

CTCH 1 HR AFTER DST#1

CFS 3349' 20,40,60

CFS 3380' 20,40,60 TOTAL 2 HRS

CTCH 1 HR

CFS 3434' 20,40,60

CTCH 45 MIN

CFS 3487' 20,40,60

CFS 3574' 20,40,60

CFS 3586' 20,40,60 TOTAL 1.5 HRS

CFS/CTCH 20,40,60 TOTAL 1.5 HRS




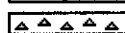


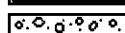

TD 3720'







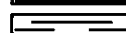
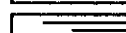
TOH FOR LOGS



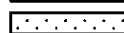
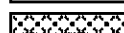




DST information




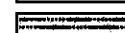
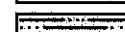

DST #1 3275'-3324', ANCHOR 49', IB WEAK BLOW BUILT 3 IN INTO WATER IN 15 MIN, FB WEAK BLOW BUILT 7 IN INTO WATER IN 45 MIN,FSI NO BLOW BACK, RECOVERY 25' SPOT OIL CUT MUDDY WATER, RECOVERY 60 FT SPOT OIL CUT MUDDY WATER, CHLORIDES 41000, IH 3184 OTF-1 757 SI-1 1472 ESI-1 1640, OTF-2 1498 SI-2 1641 ESI-2 1646 FH 3211,

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

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltyslts
	Lms

ACCESSORIES

MINERAL

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

- Salt
- Sandy
- Siit
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

FOSSIL

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

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

STRINGER

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

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

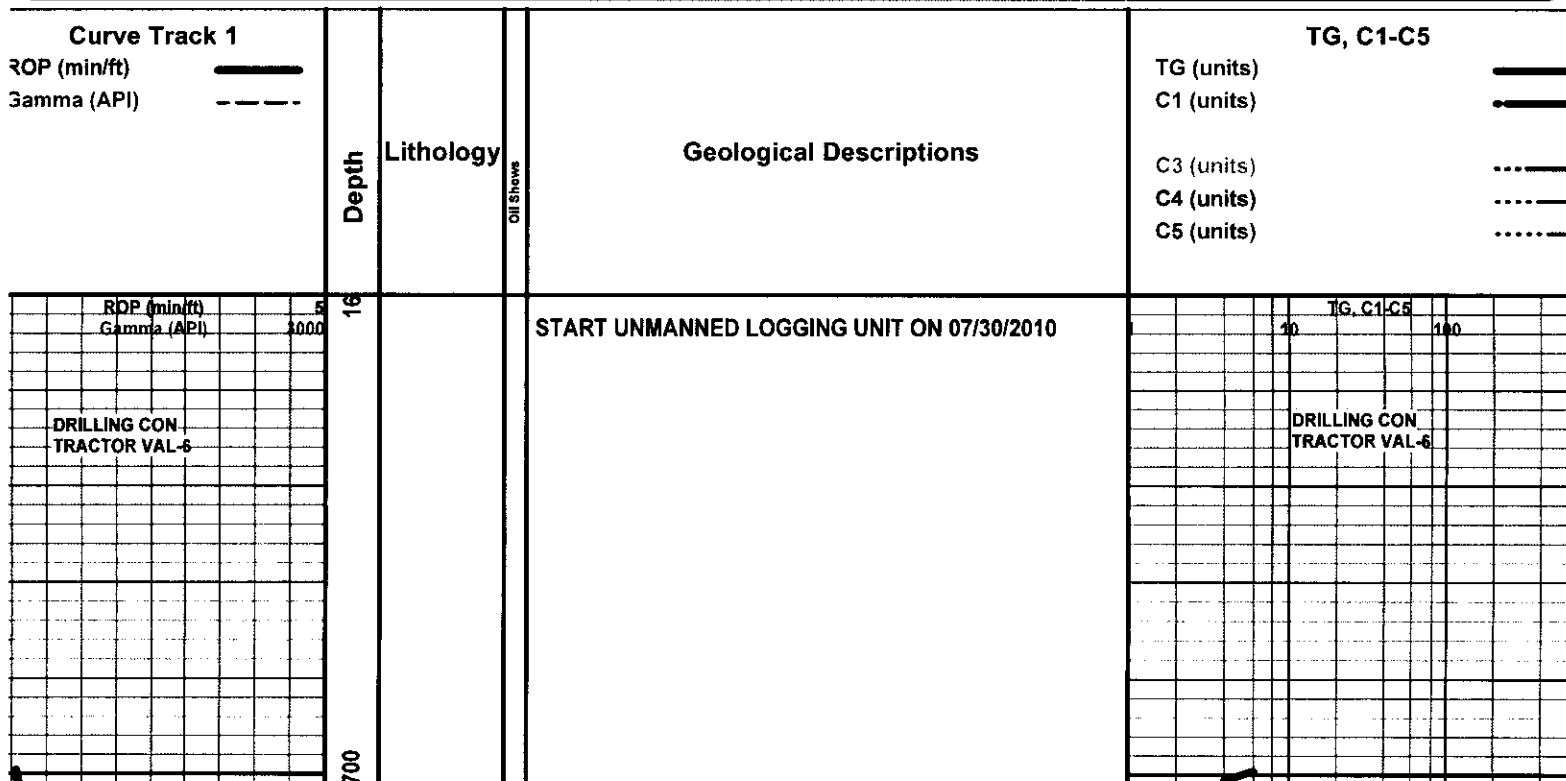
- Even
- Spotted
- Ques
- Dead
- Gas show

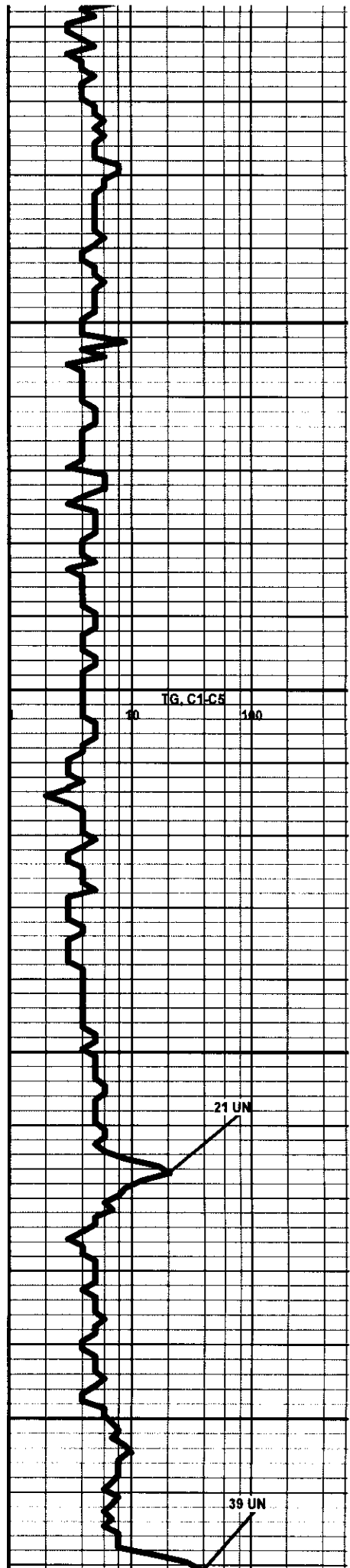
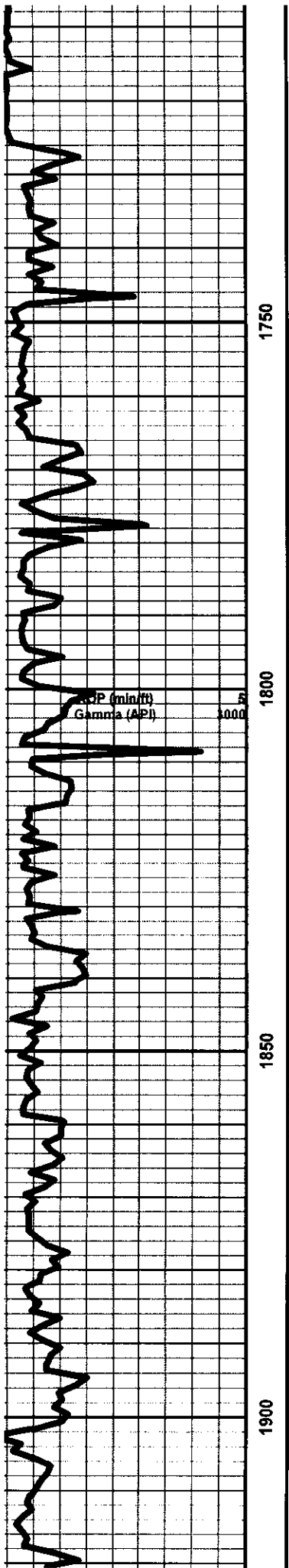
INTERVALS

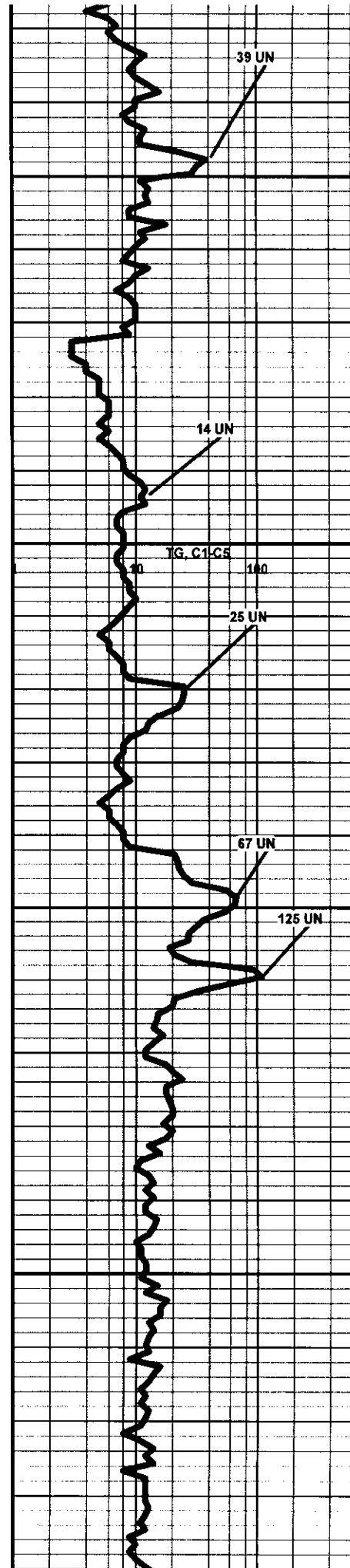
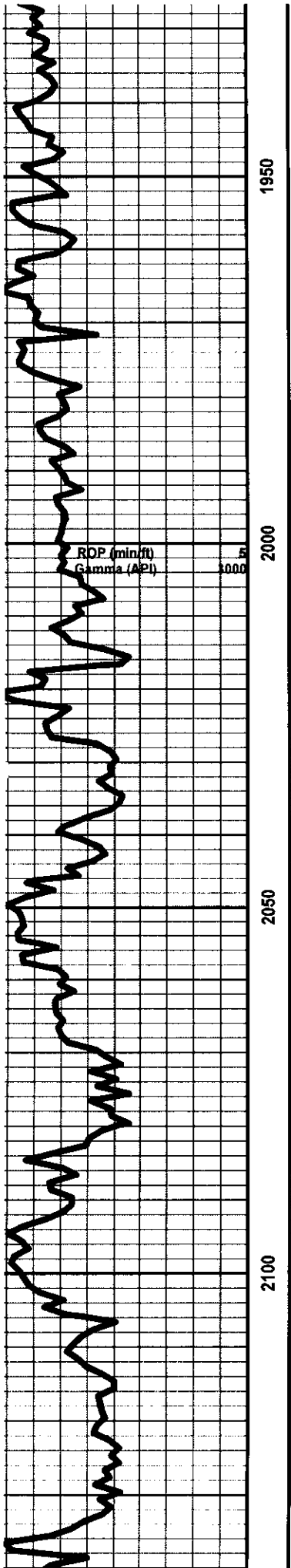
- Core
- Dst
- Dst

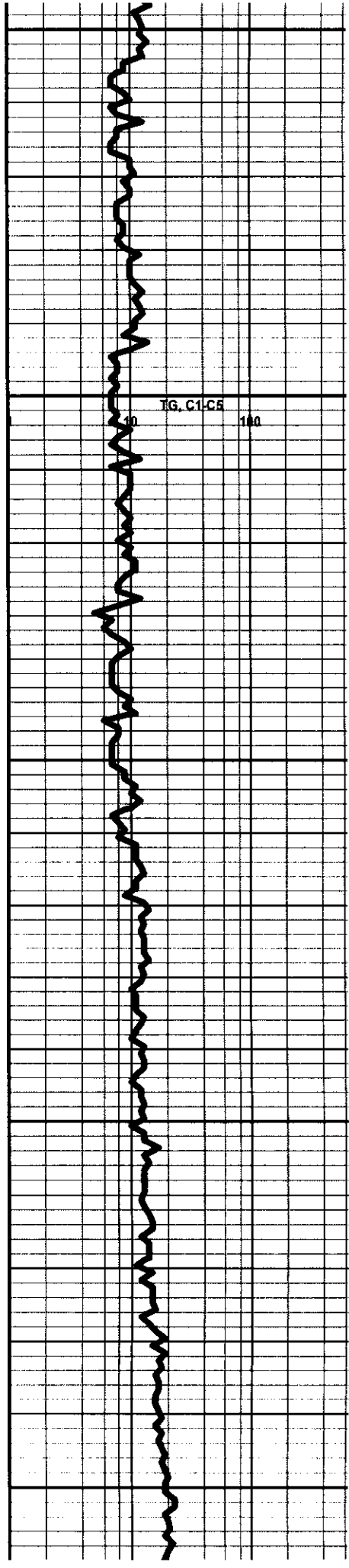
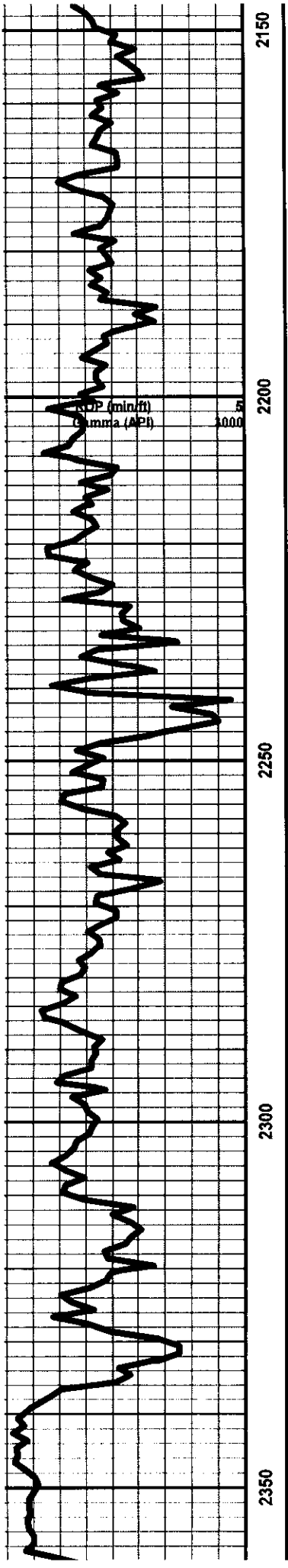
EVENTS

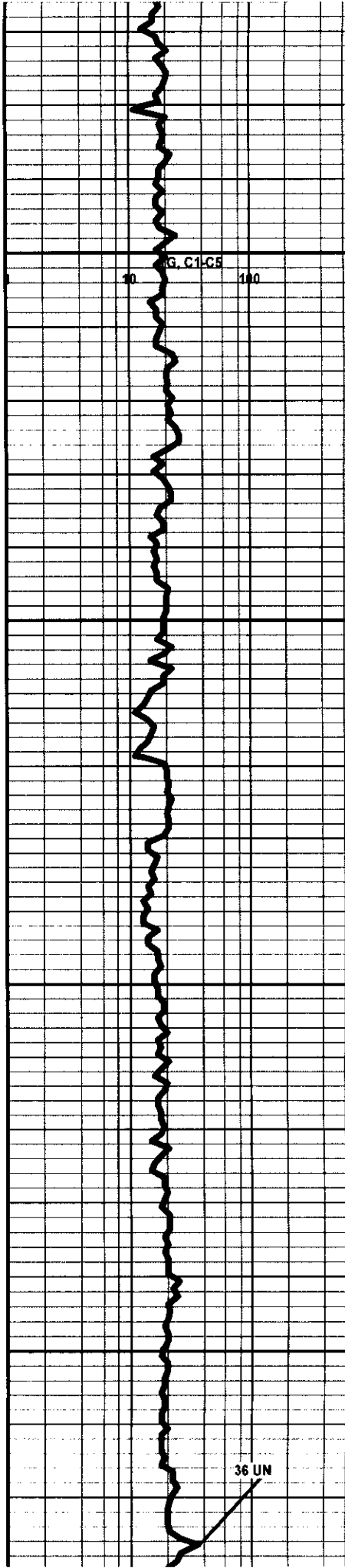
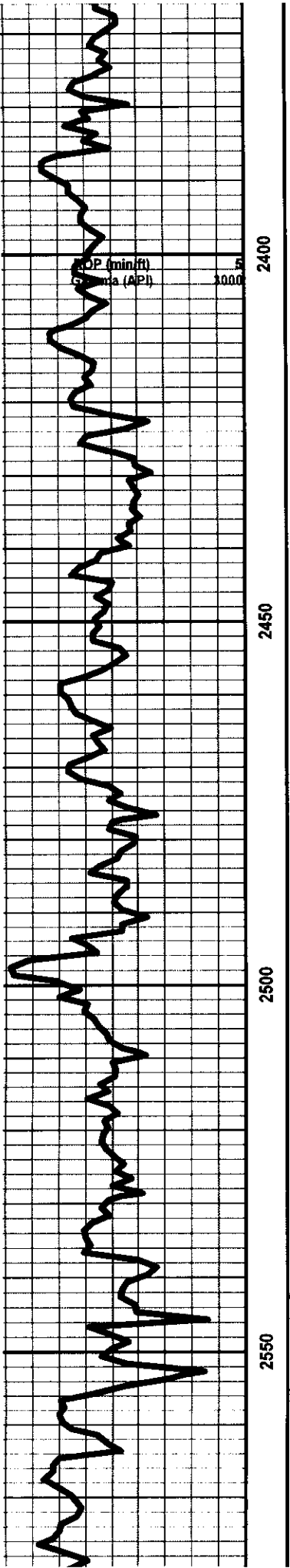
- Rft
- Sidewall

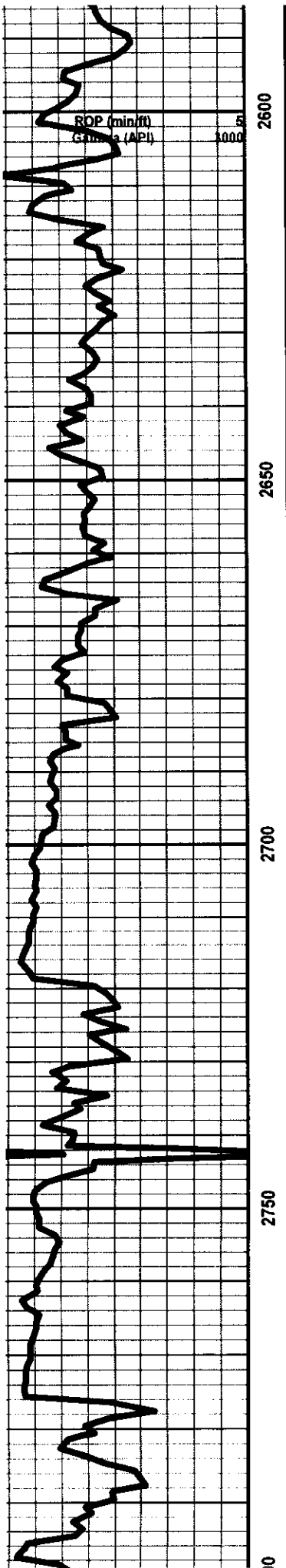




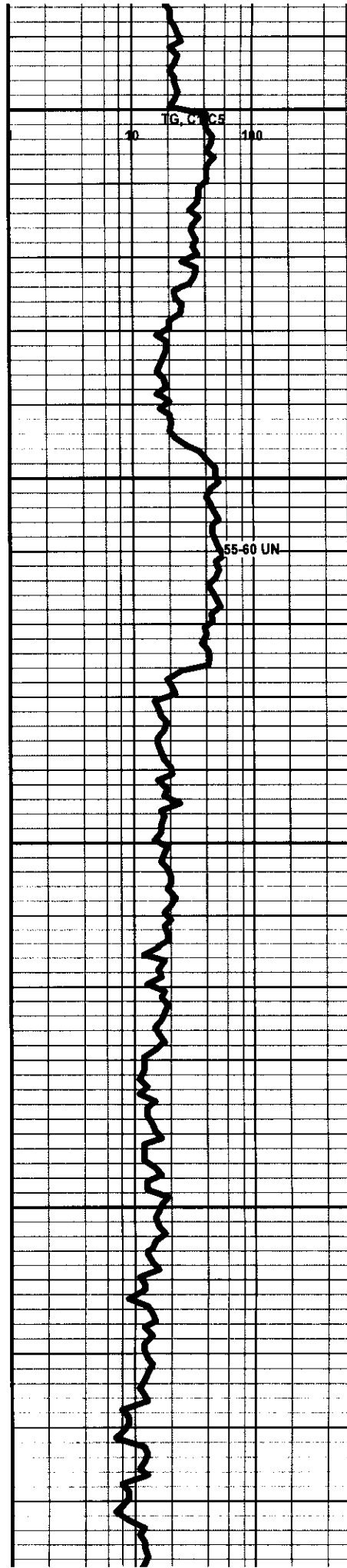


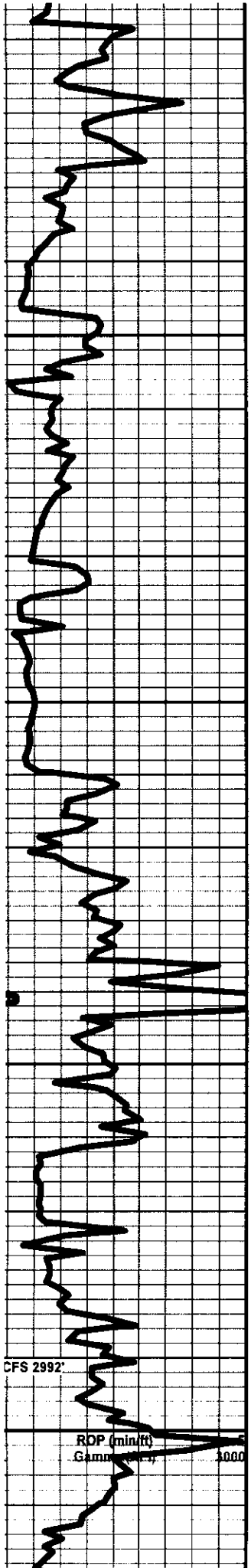






BASE ROOT SHALE 2720' -736'





2850
2900
2950
3000



START 24 HR MANNED UNIT 07/31/2010

HOWARD 2910' -926'

LS DK GRY TO GRY HD DN CRYPTO TO VVFN XLN MTX
NO FLO NO VIS POR NO VIS SHOW

SH GRY LT GRY FRM SFT TO SILTY

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

LS GRY LT GRY TAN MOTT VVFN TO FN TO TR MED XLN
MTX IMBD FOSS IMBD GRY SH SUCRO TXT IP SC TR LT
YLW FLO FAIR INTRXLN POR NO STAIN NO CUT NO VI:
SHOW

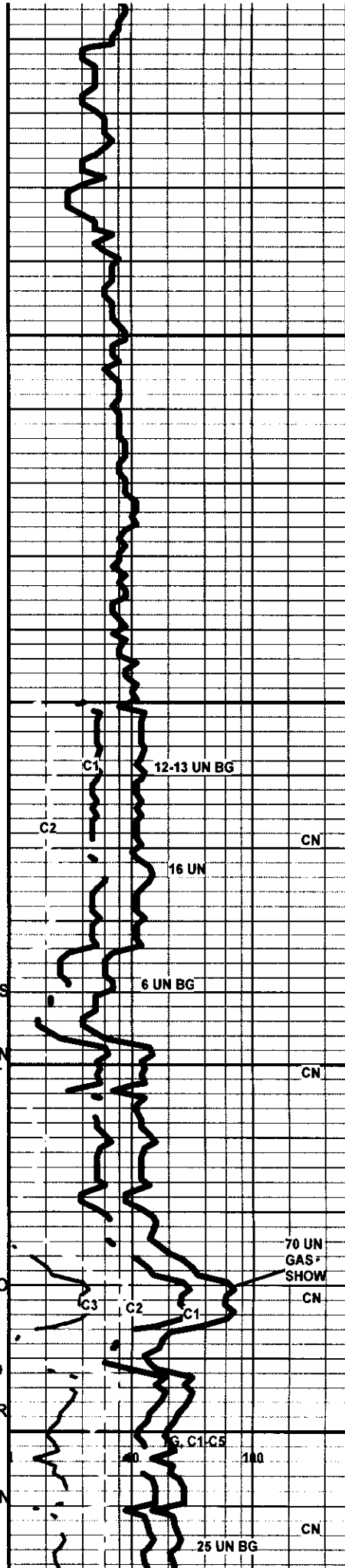
SH GRY LT GRY SMOOTH SLTLY FRM SOFT SILTY

TOPEKA 2976' -992'

LS LT GRY TAN TO LT TAN VVFN XLN MTX SUCRO TXT
THRU TR SM TO MED QRTZ XLS IP TR IMBD FOSS LT
BRIGHT YLW FLO 60% TT INTRXLN POR TO FAIR MICRO
PP POR NO STAIN NO CUT NO VIS SHOW POS GAS
SHOW

LS DK GRY TO GRY DK TAN TO TAN HD DN TT CRYPTO
TO VVFN TO FN XLN MTX TR IMBD FOSS TR DULL YLW
FLO POOR INTRXLN POR TO TR PP AND MICRO PP POR
IP NO CUT NO VIS SHOW

LS LT GRY TAN TO LT TAN FN TO MED XLN MTX RE XLN
MTX IMBD FOSS TR IMBD PYR TR IMBD LS GRAINS
SUCRO TXT IP CHLKY DULL YLW FLO PR TO FR INTR
XLN TR VUGS IP TO MICRO PP POR IP NO CUT NO VIS



CFS 2992'

RDP (min/ft)
Gamma (ppm) 10000

C1
C2
C3

12-13 UN BG

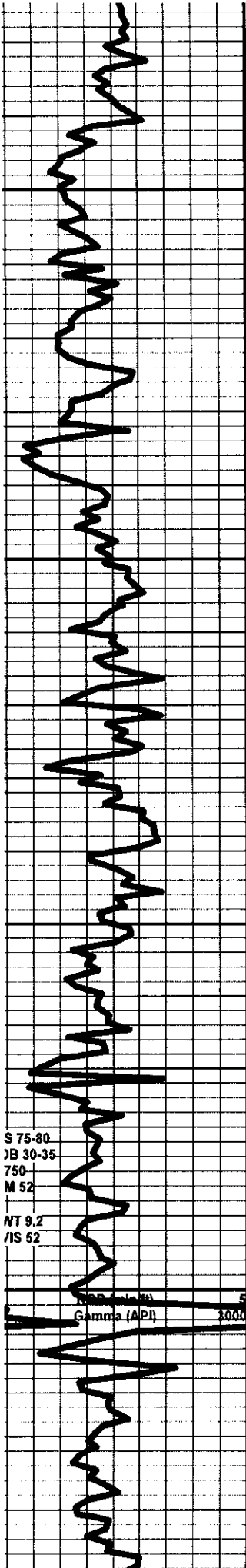
16 UN

6 UN BG

70 UN GAS SHOW

25 UN BG

CN



LS TAN LT TAN CRM BUFF HD TO FRM BRITT FN TO MED XLN MTX IMBD FOSS TR IMBD GRY SH NO FLO POSS TT INTR XLN POR NO CUT NO VIS SHOW

LS TAN LT TAN BUFF FRM BRITT FN XLN MTX REXLN MTX SUB CHLKY W TR FRM PIECES OF CHLK TR IMBD LS GRNS IMBD FOSS TR LMNTD GR SH TR PP TO MICRO PP POR SCATT TR LT YLW FLO TR DULL YLW FLO NO CUT NO VIS SHOW

3068' @ 00:01 AM 08/01/2010
LE COMPTON 3082' -1098'

3082'-3088' LS LT TAN BUFF FRM BRITT FN TO MED XLN MTX IMBD FOSS THRU IMBD VSM LS GRNS TR IMBD SM QRTZ XLS SUB CHLKY IP TR LMNTD PYR FR TO GD INTRXLN POR FR VUG POR TR MICRO PP POR DULL YLW FLO 50% NO STAIN NO CUT NO VIS SHO

LS TAN GRY LT GRY HD DN BRITT CRYPTO TO VVFN XLN MTX TR OFF WHT CHRT IP NO FLO NO VIS POR NO VIS SHOW

SH BLK CARB

LS LT TAN CRM BUFF HD DN TT CRYPTO TO VVFN DISS GRY SH IP NO VIS POR NO VIS SHOW

LS DK TAN TO TAN LT TAN CRM BUFF HD TO FRM BRIT FN TO MED XLN MTX REXLN MTX IMBD FOSS IMBD SM MED QRTZ XLS IP SUB CHLKY IP LT YLW FLO PR TO FR INTR XLN POR TR V/SM VUGS POSS TT INTR FOSS POR TR STAIN 2 ROCKS NO CUT NO VIS SHO

LS LT TAN CRM TO BUFF FN TO MED XLN MTX IMBD SM LS GRNS IMBD FOSS TR PYR NOD IN TRAY SUB CHLKY IP TR SM CLUSTRS QRTZ XLS IP NO FLO PR TO FR INTRXLN POR NO CUT NO VIS SHOW

LS VFN TO FN XLN MTX IMBD LS GRNS TR IMBD FOSS CHLKY IP SUC TXT IP LMNTD PYR TR IMBD OOLITES TT INTR XLN TO FR VUGGY POR TR MICRO PP POR DULL YLW FLO 40% STAIN 10% POOR FLUSH CUT VPR MLK BLUE STREAM CUT WEAK SHOW

LS FN XLN MTX IMBD VSM LS GRNS SUCRO TXT IMBD FOSS TR LOOSE FRAG IN TRAY SUB CHLKY TR DRK TAN TO DRK GREEN CHRT NO FLO NO VIS POR NO CUT NO VIS SHOW

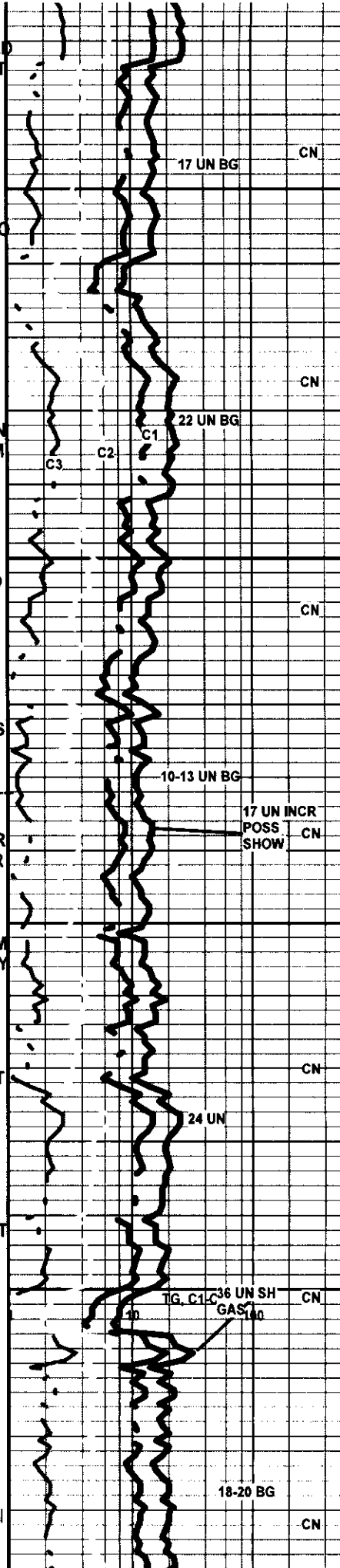
HEEBNER 3206' -1222'

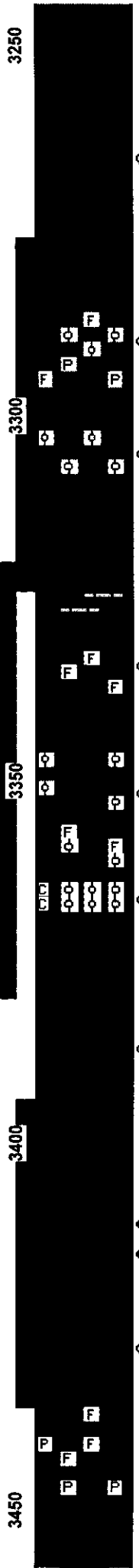
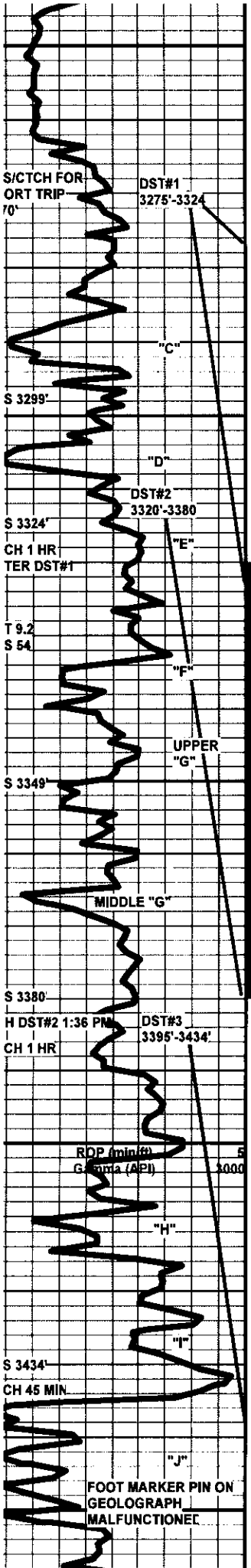
SH BLK CARB

LS DRK TAN GRY HD DN TT CRYPTO XLN MTX TR DISS BLK CARB SH IP NO VIS POR NO CUT NO VIS SHO

SH GRY TO LT GRY FRM BRITT SMOOTH LMY IP

LS LT TAN CRM TO BUFF MOTT FN XLN MTX SUB-CHLKY TR IMBD FOSS TR IMBD DRK GRY SH NO FLO TI MICRO PP POR NO CUT NO VIS SHOW





SH LT GRY BWN FRM TO SFT SMOOTH SPLINTY SFT TO SILTY

LANSING 3263' -1279'

LS LT TAN BUFF TO OFF WHT HD TO FRM BRITT CRYPTO TO VVFN XI
MTX TR IMBD CALC XLS TR DISS GRY SH TR IMBD SM LS GRNS DULL
YLW FLO THRU TR POOR INTRXLN POR TR OIL STAIN 2 ROCKS F
FLUSH CUT SPURTY SLOW MLKY BLUE STREAMING CUT 1 ROCK PR
SHOW

LANSING "C" 3284' -1300'

LS LT TAN CRM TO BUFF FRM BRITT FN TO MD XLN MTX IMBD FOSS
THRU IMBD OOLITES TR IMBD QRTZ CHLKY TR PYR NOD PR TO FR
INTRXLN POR TR SM TO MD MICRO VUGS POSS TT INTRFOSS POR
DULL YLW FLO 20% STAIN 10% VERY FAINT ODOR IN 60 MIN SAMPLE
PR FAINT FLUSH CUT VERY PR SPURTY MILKY BLUE STREAM CUT 2
ROCKS

3302'-3308' LS LT TN CRM BUFF FRM BRITT VFN TO FN XLN MTX
RE-XLN MTX IMBD OOLITES IMBD SM CALC XLS IN VUGS FAIR ODOR
IN 40 AND 60 MIN SAMPLE OOMOLDIC POOR TO FAIR TO TR GOOD
INTRXLN POR VUGGY POR TR PP POR POSS TT INTER FOSS POR
GLDN YLW FLO 70% STAIN 40% SOME 5% ROCKS SATURATED WITH
STAIN FAIR TO GOOD INSTANT FLUSH CUT TO SLOW MILKY BLUE
STREAM CUT

LANSING "F" 3330' -1346'

3333-3337' LS TAN CRM BUFF FN XLN MTX IMBD SM TR MED OOLITES
THRU SUC TXT CHLKY GLDN YLW FLO 40% TR OIL STAIN 10% POOR
TO FAIR INTRXLN POR PP POR IP OOLMOLDIC 75% FAINT ODOR 60 N
SAMPLE POOR INSTANT FLUSH CUT TO SLOW SPURTY MILKY BLUE
STREAM CUT

LS CRM BUFF OFF WHT HD DN FRM CRYPTO TO VVFN XLN MTX NO
FLO NO VIS POR NO VIS SHOW

LS TN LT TN HD DN CRYPTO TO VVFN XLN MT RE-XLN MTX TR IMBD
OOLITES IN TT CRYPTO XLN ROCK TO VRY FN SUCRO TXT
SUB-CHLKY TR POOR MICRO PP TO PP POR IP NO FLO TR OIL STAIN
25% FAINT TO POOR INSTANT FLUSH CUT

LS OFF WHT TO WHT LT TAN FN TO MD XLN MTX IMBD VSM TO SM
OOLITES OOLITE CLUSTERS WITH CALC XLS TR OOLITIC POR IP TR
FIRM PIECES CHLK W TR OIL STAIN LT GRY TO WHT SOFT CHLK TR
IMBD PYR TR IMBD CALC XLS DULL GLDN YLW FLO 70% STAIN 35 %
POOR TO FAIR INTRXLN POR SLIGHT TR PP POR FAIR FLUSH CUT TO
GOOD MLKY BLUE STREAM CUT FAINT ODOR 40 AND 60 MIN

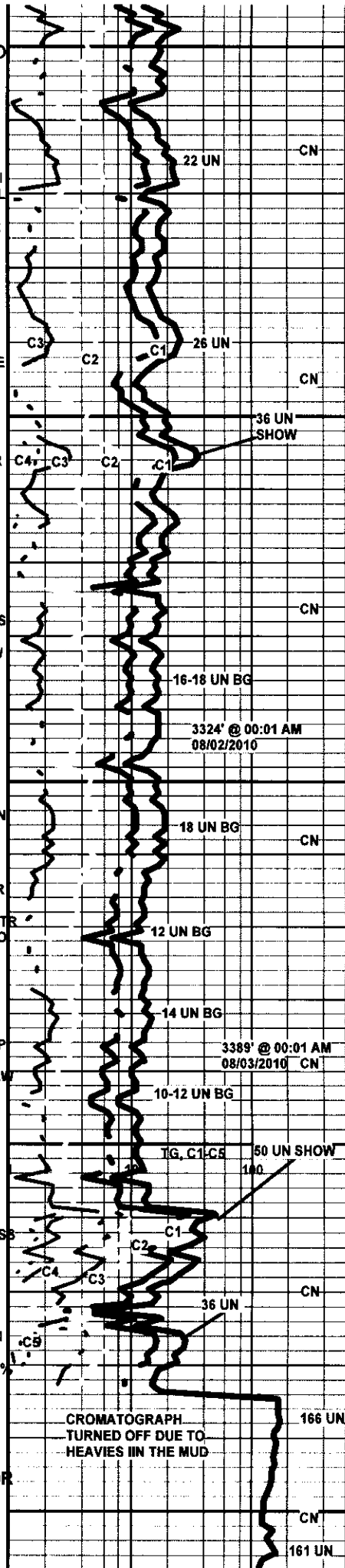
LS CRM OFF WHT TO WHT HD TO FRM CRYPTO TO VVFN TO FN XLN
MTX RE-XLN MTX IP TR IMBD FOSS IP TR IMBD PYR IP SUB-CHLKY IP
TR IMBD CHLK IP TR DEAD OIL STAIN ON THREE ROCKS NO ODOR
POSS TR INTRXLN POR TO TR MICRO PP TO PP POR IP ONLY LT YLW
FLO 40% FAINT FLUSH CUT TO TR LT YWL RING CUT

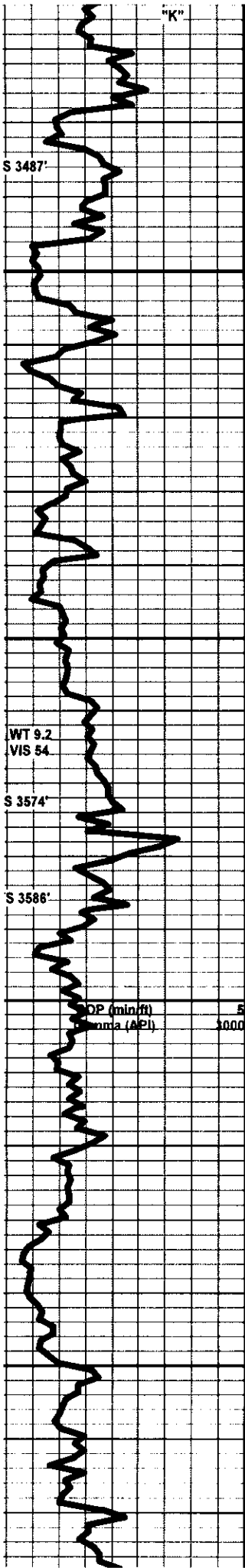
LANSING "H" 3309' -1325'

LS LT GRY TN BUFF OFF WHT HD TO FRM BRITT VFN TO FN TO MD
XLN MTX RE-XLN MTX IMBD FOSS IMBD SM TO MD QRTZ XLS TO TR
IMBD SM CALC XLS FAIR TO GOOD ODOR STAIN 60% TR LIVE OIL
BRITE GLDN YLW FLO 80% POOR FAIR TO GOOD INTRXLN POR POSS
FRACTURES POOR TO POSS FAIR INTER FOSS POR IP TR MICRO PP
TO VUGS IP GOOD INSTANT FLUSH CUT TO FAIR TO GOOD MILKY
BLUE STREAM CUT WITH BRN LEACH ON DISH

LS GRY DK TN TO TN BUFF TO CRM HD DN CRYPTO TO VVFN XLN MT
TR IMBD FOSS IP TR QRTZ XLS ON EDGE OF ROCKS POSS TT
FRACTURES TR VUGS IP LT DULL YLW FLO 30% DEAD OIL STAIN 25%
FAINT FAIR ODOR FAIR FLUSH CUT TO SPOTY SLOW MILKY BLUE
STREAM CUT LT YLW RING CU'

LS GRY TO LT GRY LT TAN TO BUFF HD DN BRITT
CRYPTO VVFN TO FN XLN MTX RE-XLN MTX IP TR PYR
NOD IMBD FOSS IP POSS TT INTR-XLN POR TO NO POR
NO FLO NO ODOR NO STAIN NO CUT NO VIS SHOW





ORANGE OPAQUE CHERT NO FLO NO VIS POR NO VIS SHOW

LS LT TAN LT GRY CRM TO BUFF MOTT HD TO FIRM BRITT TR IMBD GRY SH TR LAMNTD DRK GRY SH TR IMBD FOSS IP SUB CHLKY TR MICRO PP POR POOR INTR XLN POR SCAT LT YLW FLO IP NO STAIN NO ODOR NO CUT NO VIS SHOW

BKC 3496' -1512'

SH GRY SMOOTH SPLNTY SLTLY FRM SFT TO SILTY
 LS DK TN TO TN HD DN TT CRYPTO XLN MTX TR DK TN TO GRN CHERT IP NO FLO NO VIS POR NO VIS SHOW

SS CLR FRSTY WHT LT TN HD FRI SM TO MD ANG TO SUB-ANG SS GRNS WITH TR IMBD SH LMY TR GLAC POOR SORT WITH IMBD SM QRTZ XLS TR VRY SM SUB-RND SS GRNS UNCON IN TRAY TT TO POOR INTEI GRAN POR TR STAIN 10% LT YLW FLO 50% FAINT TO POOR INSTANT FLUSH CUT TO LT YLW RING CUT

SH DK GRY TO GRY FRM BLKY WITH TN LT TN TO OFF WHT CHERT IP

CONG CHERT LT TN TO ORNG TR FELD TR LOOSE QRTZ FRAGS TO TR IMBD OOLITES IN CHERT TR DK BRN SH HD WITH IMBD VRY FN SS GRNS IMBD FOSS LOOSE FOSS IN TRAY PYR NODULES IN TRAYNO VIS POR NO VIS SHOW

SH GRY DK BRN TO RED SH SLTLY FRM SMOOTH SFT WITH CHERT WHT TO OFF WHT ORNG TO GRN

ARBUCKLE 3577' -1593'

3577'-3579'DOL OFF WHT TO WHT HD DN CRYPTO TO VVFN XLN MTX THRU TR IMBD OOLITES IP NO STAIN NO ODOR NO VIS POR NO CUT NO VIS SHOW

3579'-3584' DOL OFF WHT TO WHT HD FRM VFN TO FN XLN MTX TR M XLN MTX SM ANG TO SUB-ANG DOL XLS TR POOR TO FAIR INTER-XL POR NO STAIN LT DULL YLW FLO 70% NO CUT NO VIS SHOW

DOL OF WHT TO WHT FRM BRITT VFN TO FN XLN MTX TR SM ANG DOL XLS TO IMBD SUB-RND TO RND DOL GRNS FAIR INTER XLN POR TO POSS INTER GRAN POR NO FLO NO STAIN NO CUT NO VIS SHOW

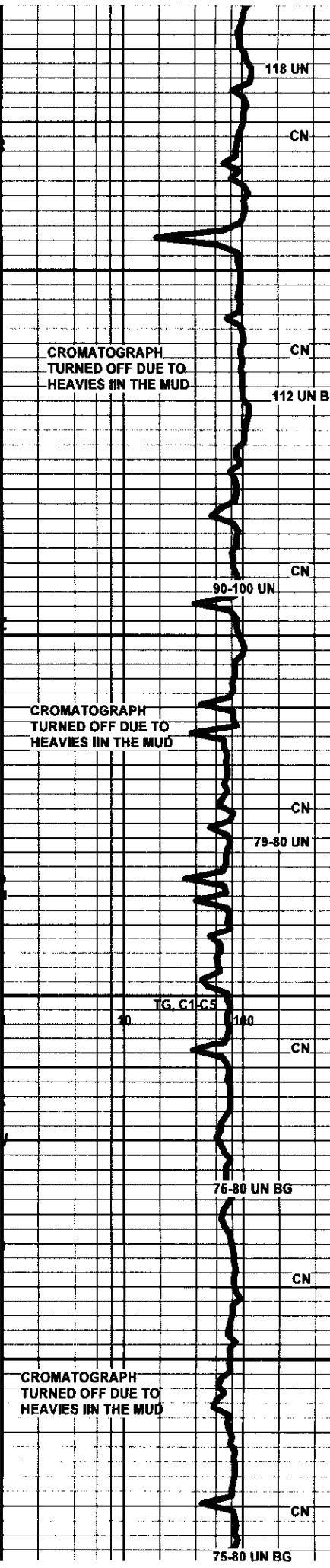
DOL OFF WHT TO WHT LT GRY FRM BRITT VVFN TO FN XLN MTX SUCRO TXT CHLKY IP TR IMBD TO LMNTD PYR TR PYR NODULES IN TRAY NO FLO POSS POOR INTERXLN POR NO FLO NO STAIN NO CUT NO VIS SHOW

DOL OFF WHT TO WHT LT GRY FN XLN MTX WITH CLUSTERS OF CLR TO FRSTY WHT DOL GRNS SUB-RND TO RND FRI FAIR TO GOOD INTER GRAN POR NO STAIN NO FLO NO CUT NO VIS SHOW

DOL OFF WHT TO BUFF FRM VVFN TO FN XLN MTX VRY SUCRO TXT THRU TR SM IMBD QRTZ XLS IP POSS TT INTER GRAN TO NO POR NO STAIN NO FLO NO CUT NO VIS SHOW

DOL LT TN CRM BUFF HD DN BRITT CRYPTO TO VVFN TO FN XLN MTX SUCRO TXT WITH IMBD DOL XLS IP TR IMBD LT GRY CLAY NO FLO NO VIS POR NO VIS SHOW

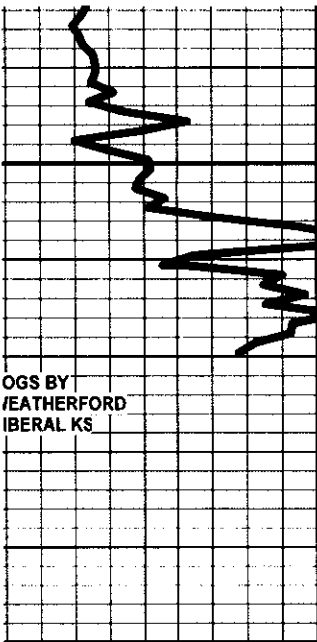
SS CLR FRSTY WHT LT GRY VRY SM TO SM SUB-ANG TO



CROMATOGRAPH TURNED OFF DUE TO HEAVIES IIN THE MUD

CROMATOGRAPH TURNED OFF DUE TO HEAVIES IIN THE MUD

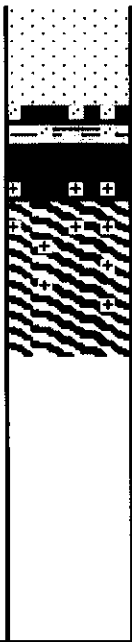
CROMATOGRAPH TURNED OFF DUE TO HEAVIES IIN THE MUD



OGS BY
FEATHERFORD
IBERAL KS

3700

50



MD SUB-RND TO RND SS GRNS LOOSE IN TRAY POOR
TO POSS FAIR INTER GRAN POR NO STAN NO FLO NO
CUT NO VIS SHOW

DOL LT TN BUFF HD DN VVFN TO FN XLN MTX IMBD
FRSTY WHT QRTZ XLS TR IMBD GRY TO LT GRY CLY TR
IMBD VRY SM SS GRNS IP TR FELD SPAR IP NO FLO NO
VIS POR NO VIS SHOW

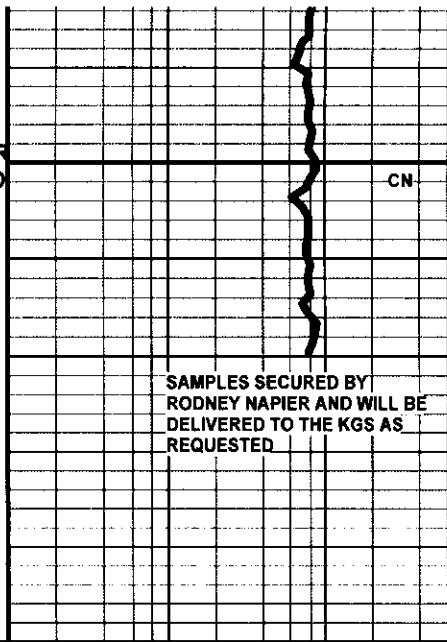
META QRTZITE CLR FRSTY LT GRN TO GRN WITH
FELDSPAR LT ORNG WITH IMBD MICA AND MAGNITITE
THRU NO FLO NO VIS POR NO CUT NO VIS SHOW

TD 3720' 08/04/2010 7:12 AM

CTCH 1.5 HRS

TOH FOR LOGS

THANK YOU FOR CHOOSING
EARTHTECH OGL INC.



SAMPLES SECURED BY
RODNEY NAPIER AND WILL BE
DELIVERED TO THE KGS AS
REQUESTED



DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR & ASSOCIATES INC**

SAMUEL GARY JR & ASSOCIATES INC
1515 WYNKOOP ST SUITE 700
DENVER CO 80202

ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

YARMER ET AL 1-3

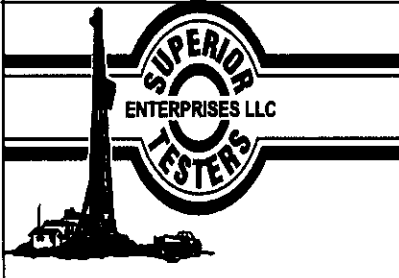
Start Date: 2010.08.01 @ 20:56:00

End Date: 2010.08.02 @ 04:20:30

Job Ticket #: 16338 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.08.04 @ 08:11:15



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

Job Ticket: 16338 **DST#: 1**
 Test Start: 2010.08.01 @ 20:56:00

GENERAL INFORMATION:

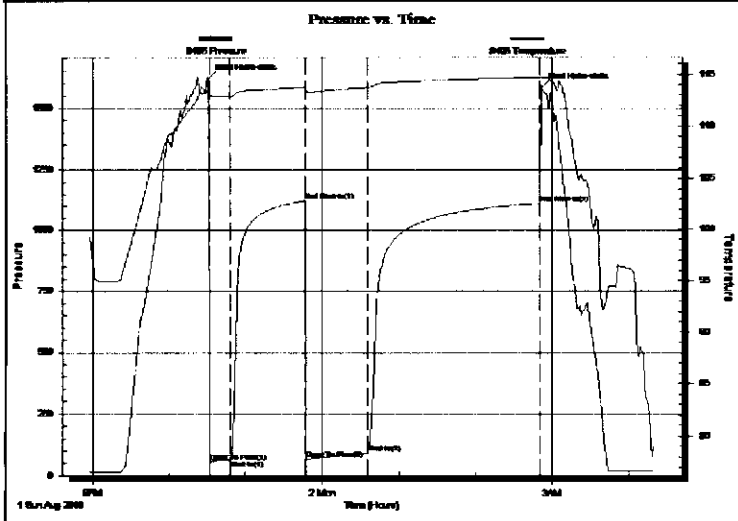
Formation: **LANSING C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:32:30
 Time Test Ended: 04:20:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-GB-56
 Interval: **3275.00 ft (KB) To 3324.00 ft (KB) (TVD)**
 Reference Elevations: 1984.00 ft (KB)
 Total Depth: 3324.00 ft (KB) (TVD) 1974.00 ft (CF)
 Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 91.08 psia @ 3320.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.08.01 End Date: 2010.08.02 Last Calib.: 2010.08.02
 Start Time: 20:58:00 End Time: 04:20:30 Time On Btm: 2010.08.01 @ 22:31:30
 Time Off Btm: 2010.08.02 @ 02:52:00

TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 3 INCHES INTO WATER IN 15 MINUTES
 60/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:WEAK BLOW BUILT 7 INCHES INTO WATER IN 45 MINUTES
 135/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

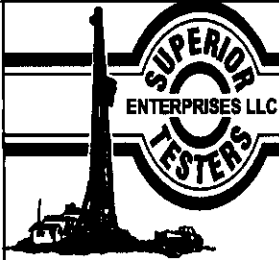
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1619.07	113.47	Initial Hydro-static
1	56.38	112.98	Open To Flow (1)
17	63.42	112.85	Shut-In(1)
75	1123.72	113.74	End Shut-In(1)
76	68.77	113.34	Open To Flow (2)
124	91.08	113.68	Shut-In(2)
259	1114.26	114.69	End Shut-In(2)
261	1586.16	114.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	SLIGHTLY OIL CUT MUDDY WATER	0.35
	5%OIL 30%MUD 65%WATER	0.00
60.00	Very slightly oil cut muddy w ater	0.84
	1%OIL 40%MUD 59%WATER	0.00
	CHLORIDES 41,000	0.00
	Resistivity .11 @ 71 Degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

Job Ticket: 16338 **DST#: 1**

Test Start: 2010.08.01 @ 20:56:00

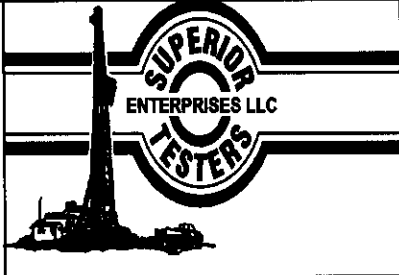
Tool Information

Drill Pipe:	Length: 3252.00 ft	Diameter: 3.80 inches	Volume: 45.62 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: 45.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54.00 lb
Depth to Top Packer:	3275.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	78.00 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			3247.00	
Shut-In Tool	5.00			3252.00	
Hydraulic Tool	5.00			3257.00	
Jars	6.00			3263.00	
Safety Joint	2.00			3265.00	
Packer	5.00			3270.00	29.00 Bottom Of Top Packer
Packer	5.00			3275.00	
Change Over Sub	0.75			3275.75	
Drill Pipe	31.50			3307.25	
Change Over Sub	0.75			3308.00	
Perforations	11.00			3319.00	
Recorder	1.00	8405	Inside	3320.00	
Recorder	1.00	8524	Outside	3321.00	
Bullnose	3.00			3324.00	49.00 Bottom Packers & Anchor

Total Tool Length: 78.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

Job Ticket: 16338

DST#: 1

Test Start: 2010.08.01 @ 20:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.76 in³

Resistivity: 0.11 ohm.m

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

deg API

41000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	SLIGHTLY OIL CUT MUDDY WATER	0.351
	5%OIL 30%MUD 65%WATER	0.000
60.00	Very slightly oil cut muddy w ater	0.842
	1%OIL 40%MUD 59%WATER	0.000
	CHLORIDES 41,000	0.000
	Resistivity .11 @ 71 Degrees	0.000

Total Length: 85.00 ft Total Volume: 1.193 bbl

Num Fluid Samples: 0

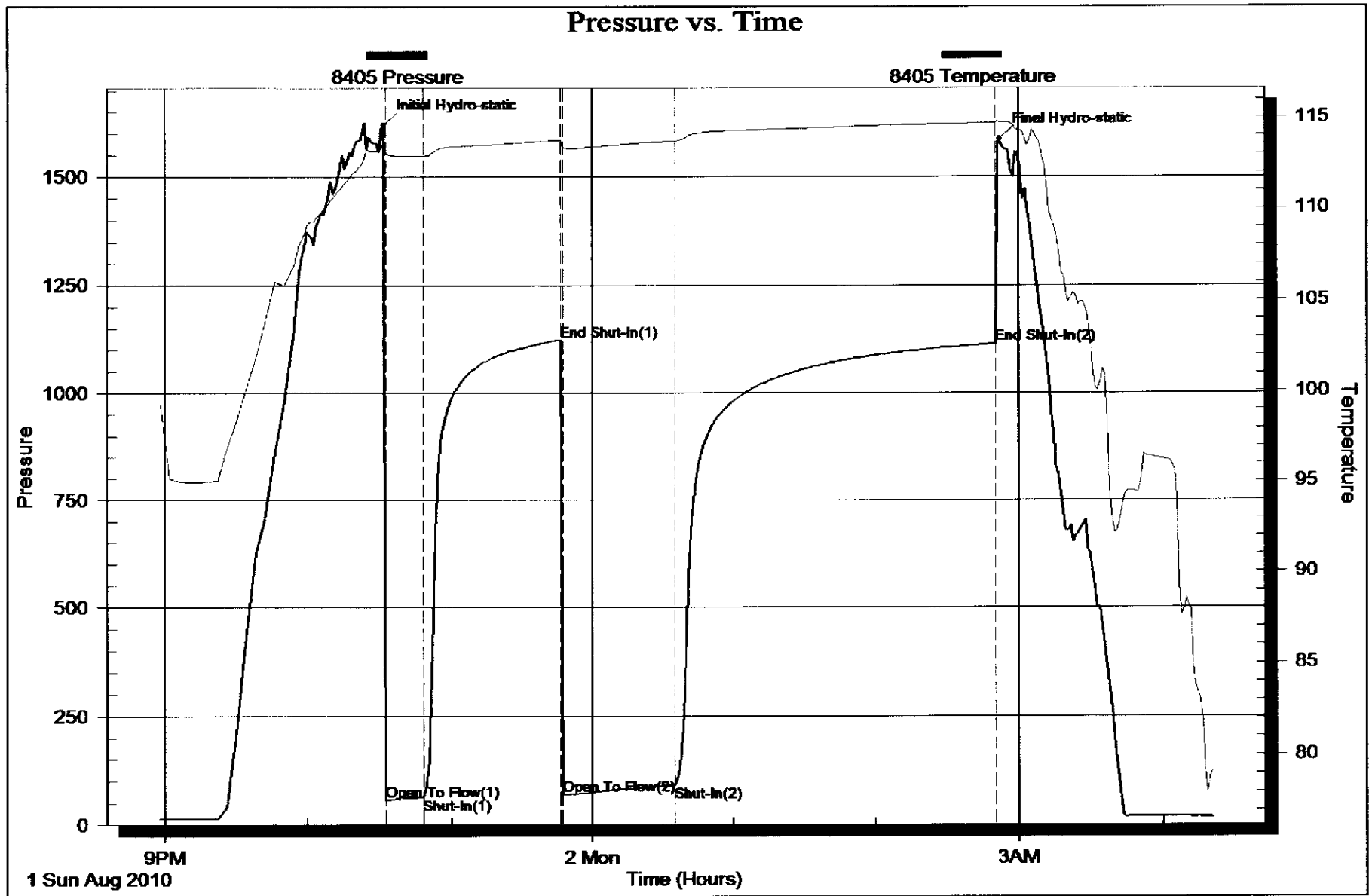
Num Gas Bombs: 0

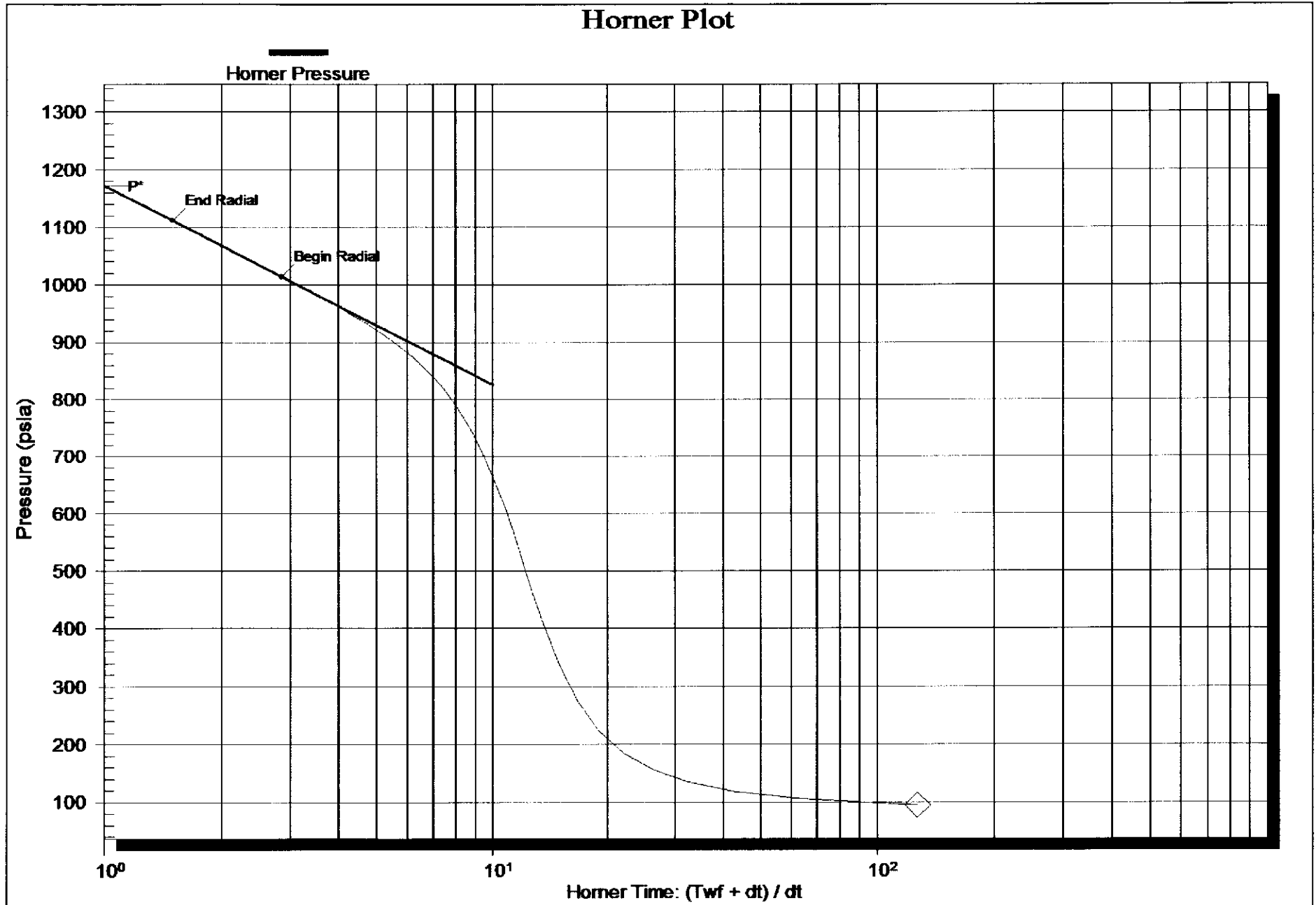
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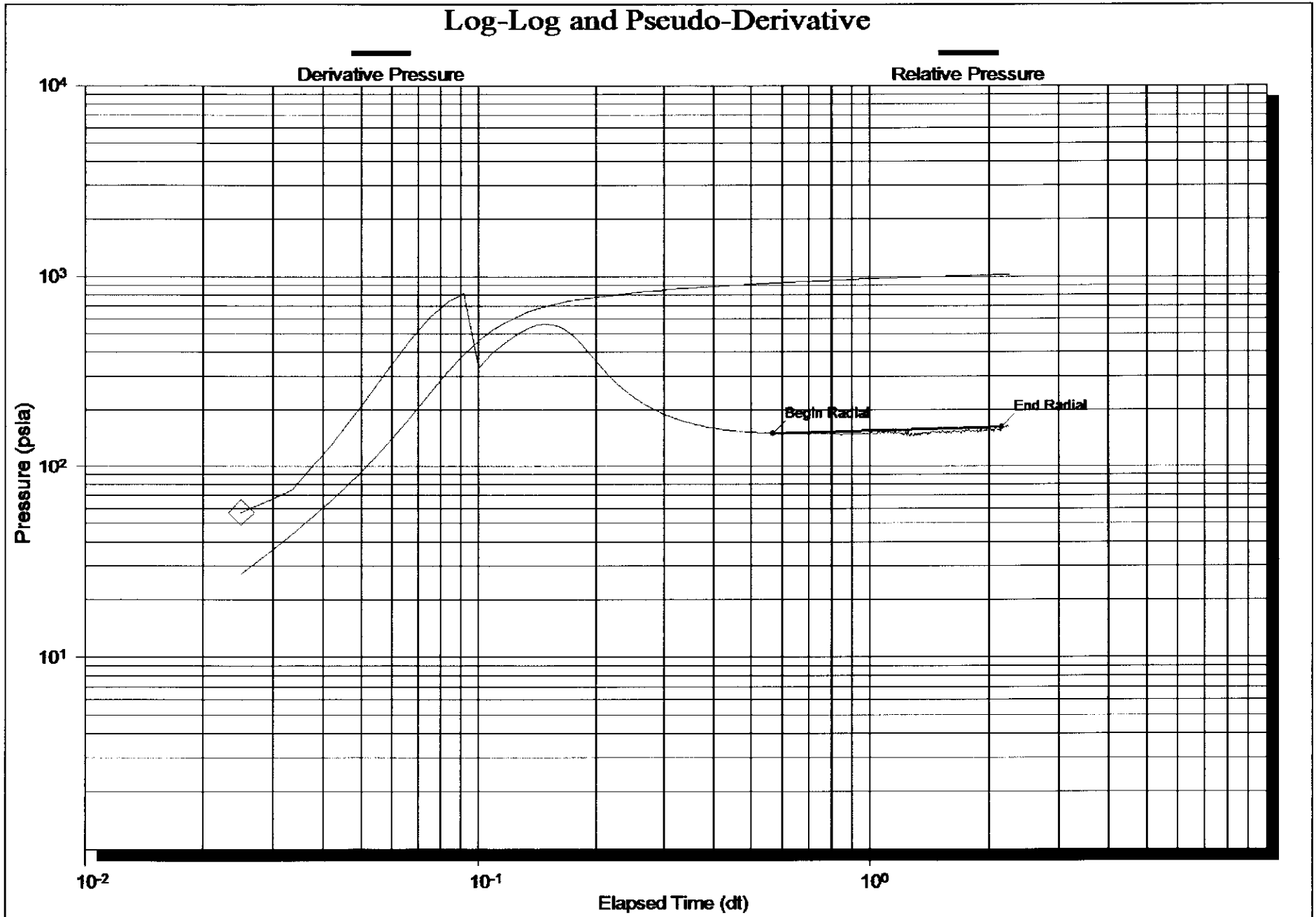
Laboratory Name:

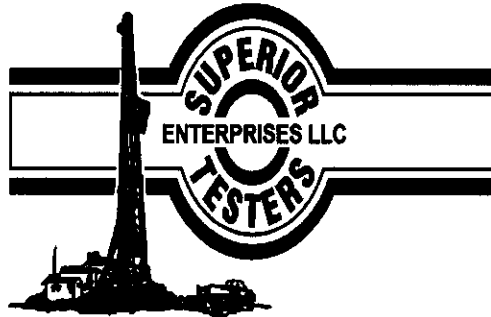
Laboratory Location:

Recovery Comments: Chlorides 41,000 Resistivity .11 @ 71 Degrees









DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR & ASSOCIATES INC**

SAMUEL GARY JR & ASSOCIATES INC
1515 WYNKOOP ST SUITE 700
DENVER CO 80202

ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

YARMER ET AL 1-3

Start Date: 2010.08.02 @ 15:17:00

End Date: 2010.08.02 @ 22:30:30

Job Ticket #: 16339 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.08.04 @ 08:19:51



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH
 Job Ticket: 16339 **DST#: 2**
 Test Start: 2010.08.02 @ 15:17:00

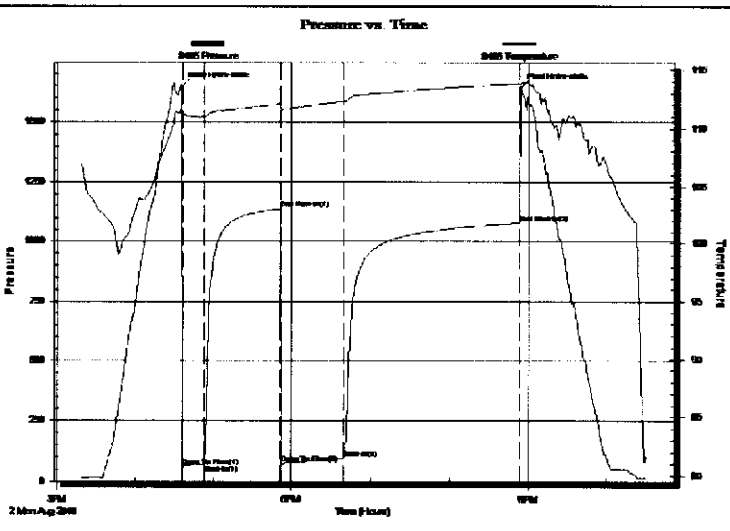
GENERAL INFORMATION:

Formation: **Lansing "F & G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:36:30
 Time Test Ended: 22:30:30
 Interval: **3320.00 ft (KB) To 3380.00 ft (KB) (TVD)**
 Total Depth: 3380.00 ft (KB) (TVD)
 Hole Diameter: 6.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-gb-56
 Reference Elevations: 1984.00 ft (KB)
 1974.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside

Press@RunDepth: 93.95 psia @ 3375.98 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.08.02 End Date: 2010.08.02 Last Calib.: 2010.08.03
 Start Time: 15:19:00 End Time: 22:30:30 Time On Btm: 2010.08.02 @ 16:36:00
 Time Off Btm: 2010.08.02 @ 20:54:30

TEST COMMENT: 15/Initial Opening Weak building blow built to 2 3/4 inches into the water
 60/Initial Shut-In-No blow back
 45/Final Open-Weak building blow built to 3 3/4 inches into the water
 135/Final Shut-In-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1647.04	111.72	Initial Hydro-static
1	61.99	111.10	Open To Flow (1)
18	70.19	110.99	Shut-In(1)
76	1137.78	112.13	End Shut-In(1)
76	73.68	111.47	Open To Flow (2)
124	93.95	112.33	Shut-In(2)
258	1078.13	113.85	End Shut-In(2)
259	1641.01	113.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Muddy Water 30% Mud 70% Water	0.91
	Chlorides 43,000	0.00
	Resistivity .14 @ .82 Degrees	

Gas Rates

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



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

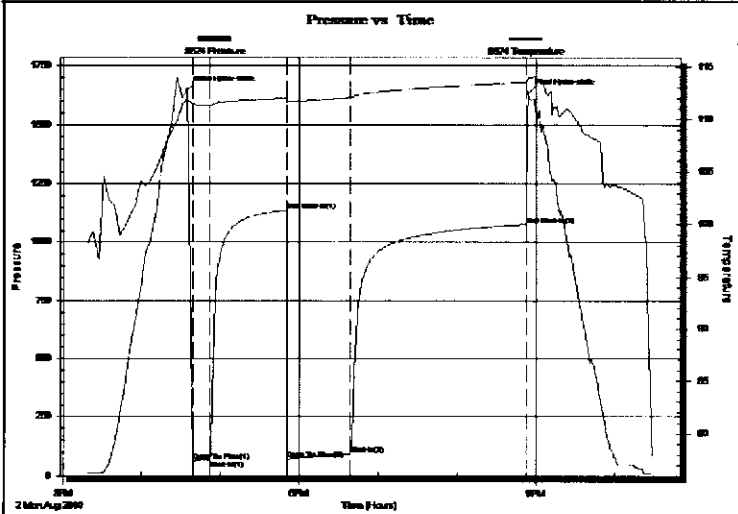
Job Ticket: 16339 **DST#: 2**
 Test Start: 2010.08.02 @ 15:17:00

GENERAL INFORMATION:

Formation: **Lansing "F & G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:36:30
 Time Test Ended: 22:30:30
 Interval: **3320.00 ft (KB) To 3380.00 ft (KB) (TVD)**
 Total Depth: 3380.00 ft (KB) (TVD)
 Hole Diameter: 6.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-gb-56
 Reference Elevations: 1984.00 ft (KB)
 1974.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8524 Outside
 Press@RunDepth: 1074.67 psia @ 3376.98 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.08.02 End Date: 2010.08.02 Last Calib.: 2010.08.03
 Start Time: 15:19:00 End Time: 22:29:30 Time On Btm: 2010.08.02 @ 16:35:00
 Time Off Btm: 2010.08.02 @ 20:53:30

TEST COMMENT: 15/Initial Opening Weak building blow built to 2 3/4 inches into the water
 60/Initial Shut-In-No blow back
 45/Final Open-Weak building blow built to 3 3/4 inches into the water
 135/Final Shut-In-No blow back



PRESSURE SUMMARY

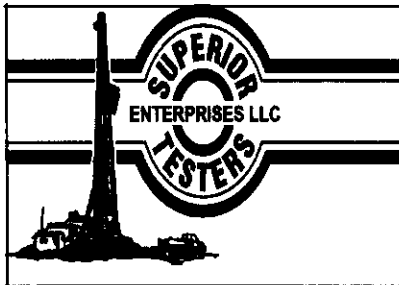
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1647.07	111.88	Initial Hydro-static
4	62.54	111.38	Open To Flow (1)
18	67.56	111.27	Shut-In(1)
76	1137.28	112.00	End Shut-In(1)
76	70.79	111.56	Open To Flow (2)
124	93.74	112.03	Shut-In(2)
258	1074.67	113.50	End Shut-In(2)
259	1635.71	113.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Muddy Water 30% Mud 70% Water	0.91
	Chlorides 43,000	0.00
	Resistivity .14 @ .82 Degrees	

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

Job Ticket: 16339 **DST#: 2**
 Test Start: 2010.08.02 @ 15:17:00

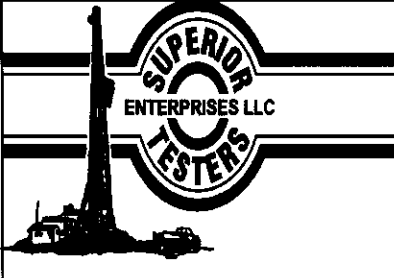
Tool Information

Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 59000.00 lb
		Total Volume: 46.49 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3320.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.98 ft			
Tool Length:	88.98 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			3292.00	
Shut-In Tool	5.00			3297.00	
Hydraulic Tool	5.00			3302.00	
Jars	6.00			3308.00	
Safety Joint	2.00			3310.00	
Packer	5.00			3315.00	29.00 Bottom Of Top Packer
Packer	5.00			3320.00	
Perforations	5.00			3325.00	
Change Over Sub	0.75			3325.75	
Drill Pipe	31.48			3357.23	
Change Over Sub	0.75			3357.98	
Perforations	17.00			3374.98	
Recorder	1.00	8405	Inside	3375.98	
Recorder	1.00	8524	Outside	3376.98	
Bullnose	3.00			3379.98	59.98 Bottom Packers & Anchor

Total Tool Length: 88.98



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

Job Ticket: 16339 **DST#: 2**
 Test Start: 2010.08.02 @ 15:17:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	43000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.17 in ³	Gas Cushion Type:		
Resistivity: 0.14 ohm.m	Gas Cushion Pressure: psia		
Salinity: 5800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

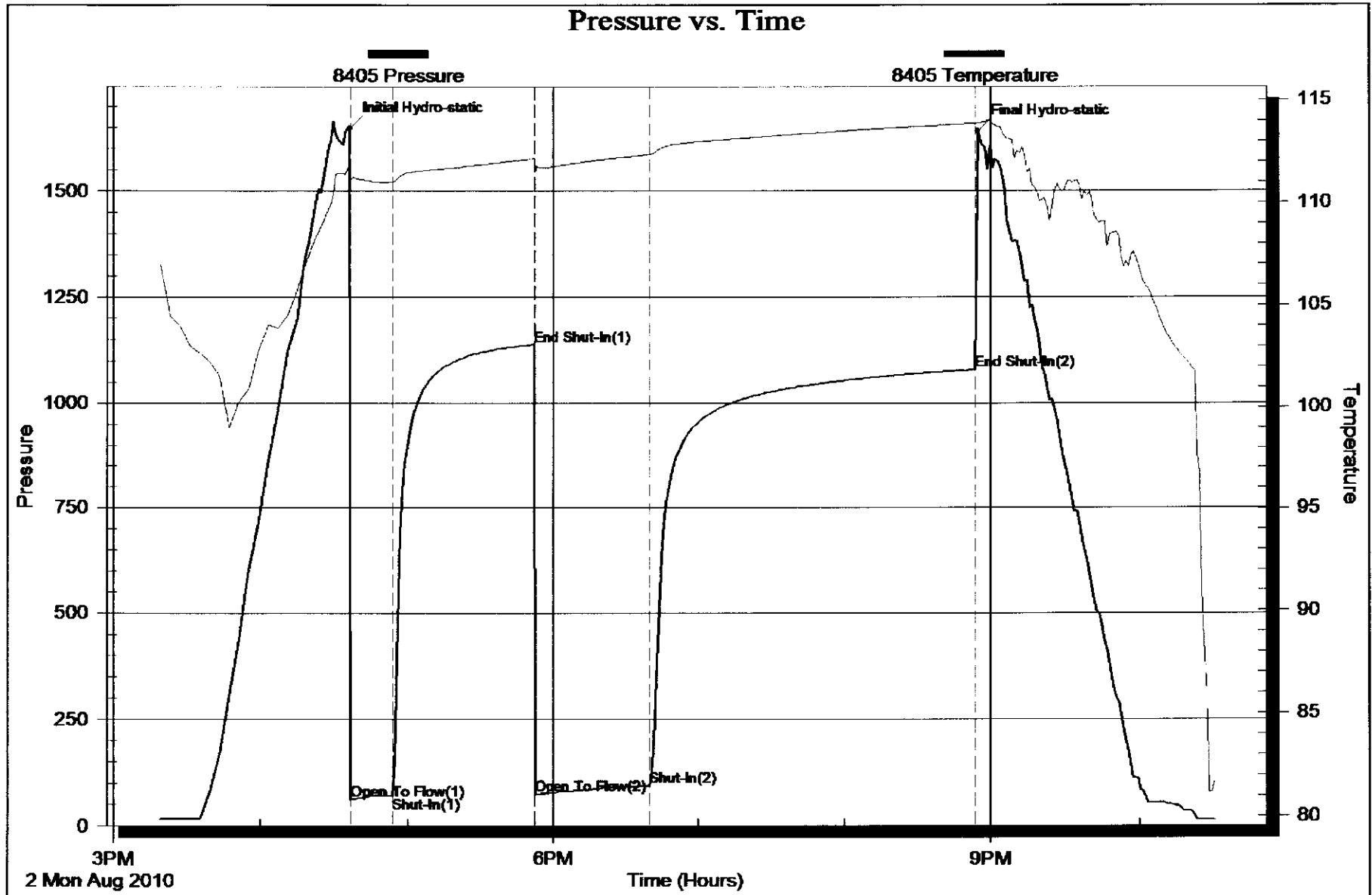
Length ft	Description	Volume bbl
65.00	Muddy Water 30% Mud 70% Water	0.912
	Chlorides 43,000	0.000
	Resistivity .14 @ .82 Degrees	

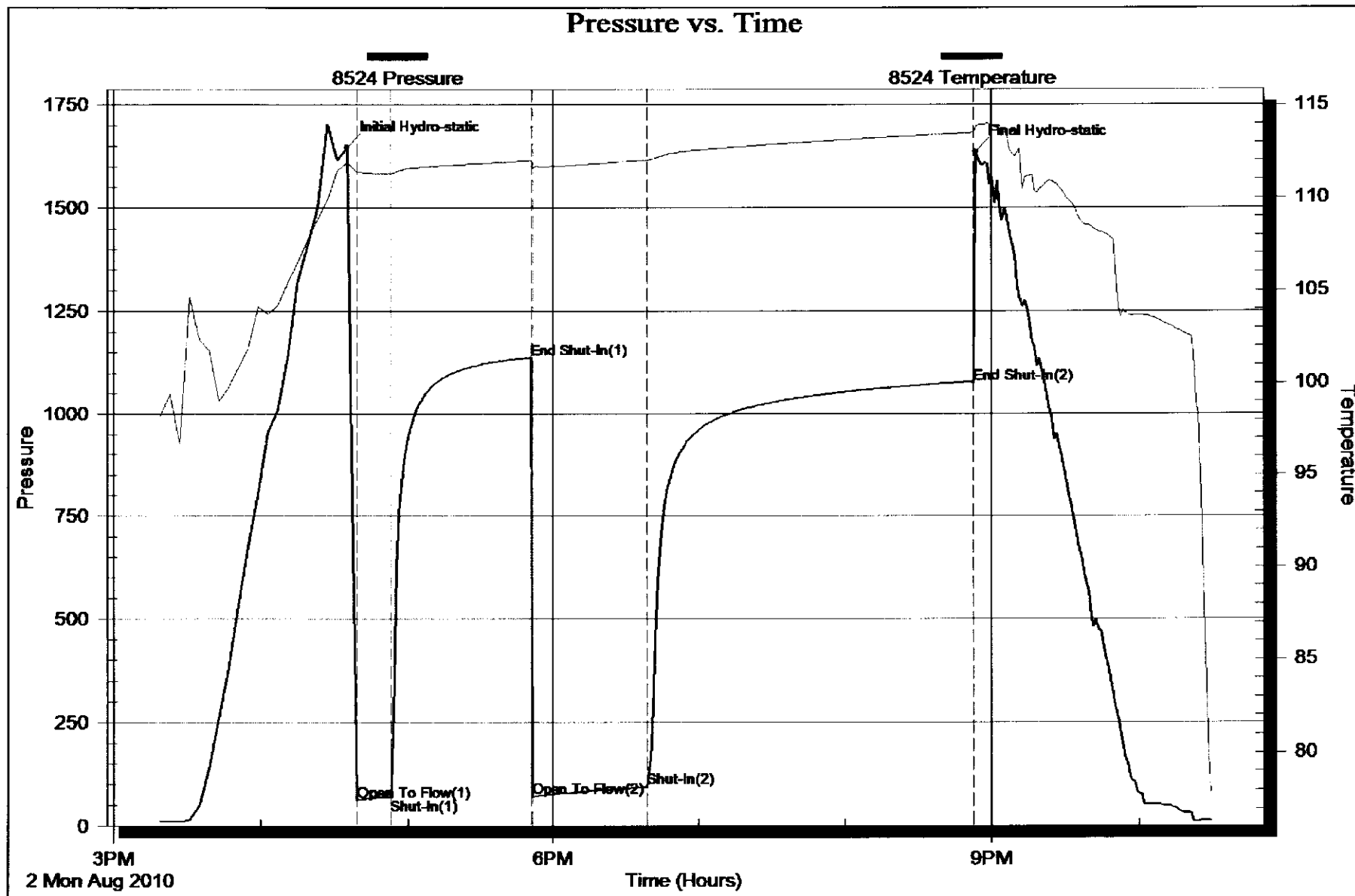
Total Length: 65.00 ft Total Volume: 0.912 bbl

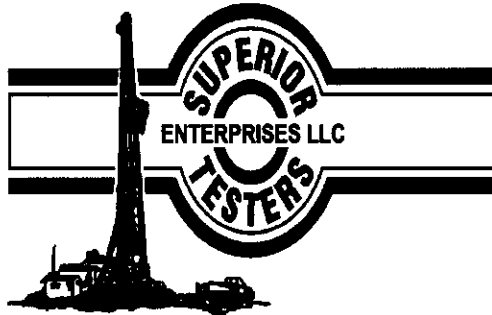
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Chlorides 43,000 Resistivity .14 @ 82 Degrees







DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR & ASSOCIATES INC**

SAMUEL GARY JR & ASSOCIATES INC
1515 WYNKOOP ST SUITE 700
DENVER CO 80202

ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

YARMER ET AL 1-3

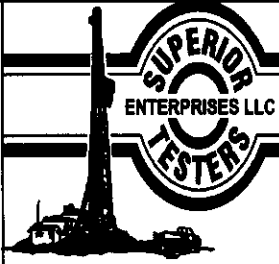
Start Date: 2010.08.03 @ 07:45:00

End Date: 2010.08.03 @ 14:40:00

Job Ticket #: 16340 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.08.04 @ 08:32:34



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

Job Ticket: 16340 **DST#: 3**
 Test Start: 2010.08.03 @ 07:45:00

GENERAL INFORMATION:

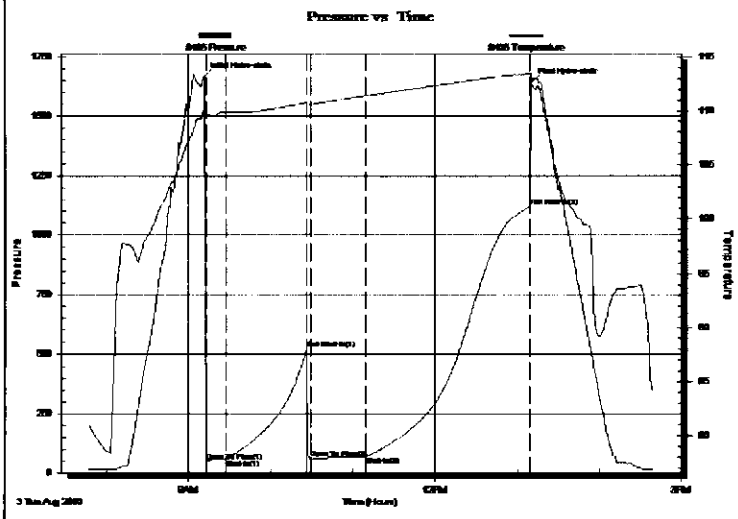
Formation: **Lansing H-1**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:12:30
 Time Test Ended: 14:40:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-GB-56
 Interval: **3395.00 ft (KB) To 3434.00 ft (KB) (TVD)**
 Reference Elevations: 1984.00 ft (KB)
 Total Depth: 3434.00 ft (KB) (TVD) 1974.00 ft (CF)
 Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 67.99 psia @ 3430.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.08.03 End Date: 2010.08.03 Last Calib.: 2010.08.03
 Start Time: 07:47:00 End Time: 14:40:00 Time On Btm: 2010.08.03 @ 09:11:30
 Time Off Btm: 2010.08.03 @ 13:10:00

TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 5 1/2 INCHES INTO WATER IN 15 MINUTES
 60/INITIAL SHUT IN:NO BLOW BACK
 40/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
 120/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

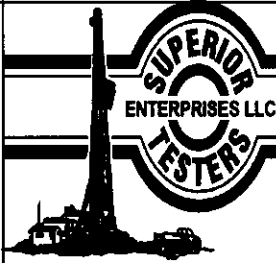
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1663.94	110.13	Initial Hydro-static
1	49.46	109.66	Open To Flow (1)
16	57.56	109.87	Shut-In(1)
75	521.76	110.80	End Shut-In(1)
78	59.55	110.61	Open To Flow (2)
118	67.99	111.40	Shut-In(2)
238	1119.74	113.42	End Shut-In(2)
239	1642.22	113.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GASSY Oil Cut Mud	0.88
	5%Gas 20% Oil 75%Mud	0.00
	300 Feet of Gas in the pipe	

Gas Rates

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



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

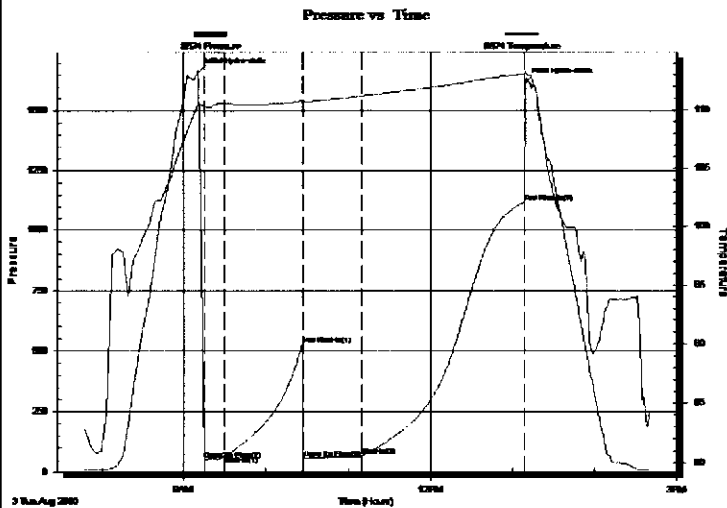
Job Ticket: 16340 **DST#: 3**
 Test Start: 2010.08.03 @ 07:45:00

GENERAL INFORMATION:

Formation: **Lansing H-1**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:12:30
 Time Test Ended: 14:40:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-GB-56
 Interval: **3395.00 ft (KB) To 3434.00 ft (KB) (TVD)**
 Reference Elevations: 1984.00 ft (KB)
 Total Depth: 3434.00 ft (KB) (TVD) 1974.00 ft (CF)
 Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8524 Outside
 Press@RunDepth: 1119.80 psia @ 3431.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.08.03 End Date: 2010.08.03 Last Calib.: 2010.08.03
 Start Time: 07:47:00 End Time: 14:40:00 Time On Btm: 2010.08.03 @ 09:11:00
 Time Off Btm: 2010.08.03 @ 13:09:30

TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 5 1/2 INCHES INTO WATER IN 15 MINUTES
 60/INITIAL SHUT IN:NO BLOW BACK
 40/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
 120/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

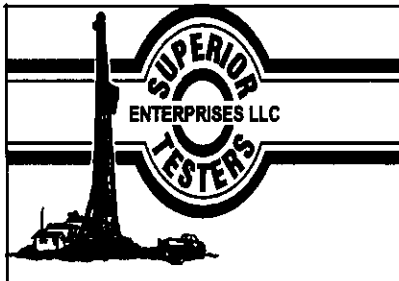
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1664.35	110.53	Initial Hydro-static
4	52.22	110.23	Open To Flow (1)
19	67.92	110.48	Shut-In(1)
76	525.57	110.74	End Shut-In(1)
77	56.55	110.69	Open To Flow (2)
119	67.67	111.19	Shut-In(2)
238	1119.80	113.05	End Shut-In(2)
239	1622.27	113.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GASSY Oil Cut Mud	0.88
	5%Gas 20% Oil 75%Mud	0.00
	300 Feet of Gas in the pipe	

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

Job Ticket: 16340

DST#: 3

Test Start: 2010.08.03 @ 07:45:00

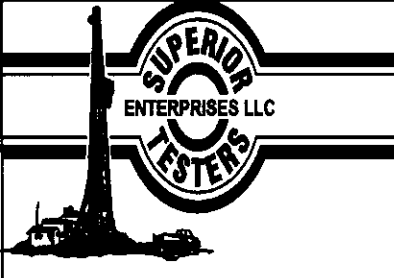
Tool Information

Drill Pipe:	Length: 3376.00 ft	Diameter: 3.80 inches	Volume: 47.36 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3395.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	68.00 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			3367.00	
Shut-In Tool	5.00			3372.00	
Hydraulic Tool	5.00			3377.00	
Jars	6.00			3383.00	
Safety Joint	2.00			3385.00	
Packer	5.00			3390.00	29.00 Bottom Of Top Packer
Packer	5.00			3395.00	
Perforations	34.00			3429.00	
Recorder	1.00	8405	Inside	3430.00	
Recorder	1.00	8524	Outside	3431.00	
Bullnose	3.00			3434.00	39.00 Bottom Packers & Anchor

Total Tool Length: 68.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR & ASSOCIATES INC

YARMER ET AL 1-3

SAMUEL GARY JR & ASSOCIATES INC 1515
 WYNKOOP ST SUITE 700
 DENVER CO 80202
 ATTN: CLAYTON CAMOZZI

3-17S-16W RUSH

Job Ticket: 16340 **DST#:3**
 Test Start: 2010.08.03 @ 07:45:00

Mud and Cushion Information

Mud Type: Polymer	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

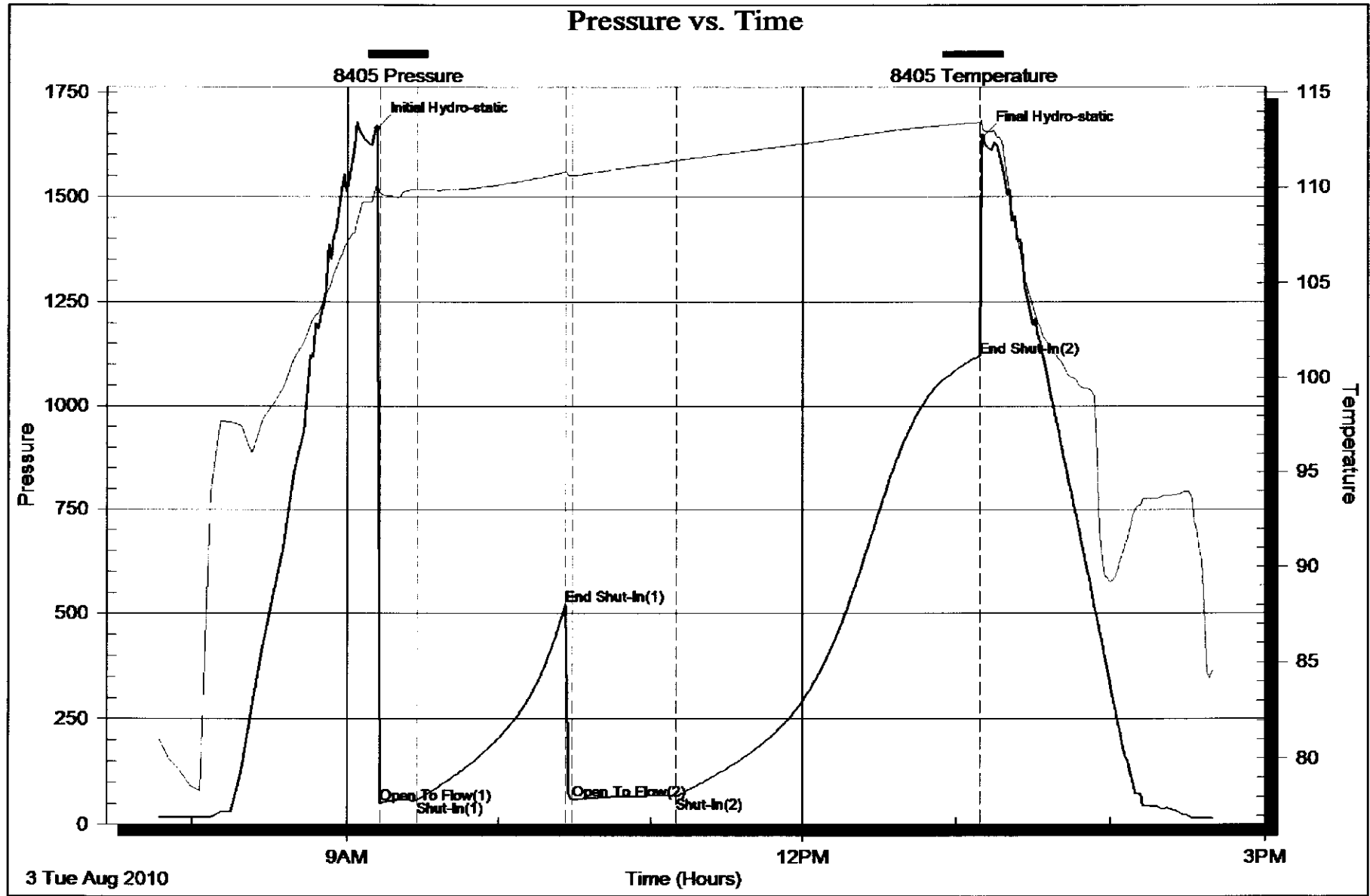
Length ft	Description	Volume bbl
63.00	GASSY Oil Cut Mud	0.884
	5%Gas 20% Oil 75%Mud	0.000
	300 Feet of Gas in the pipe	

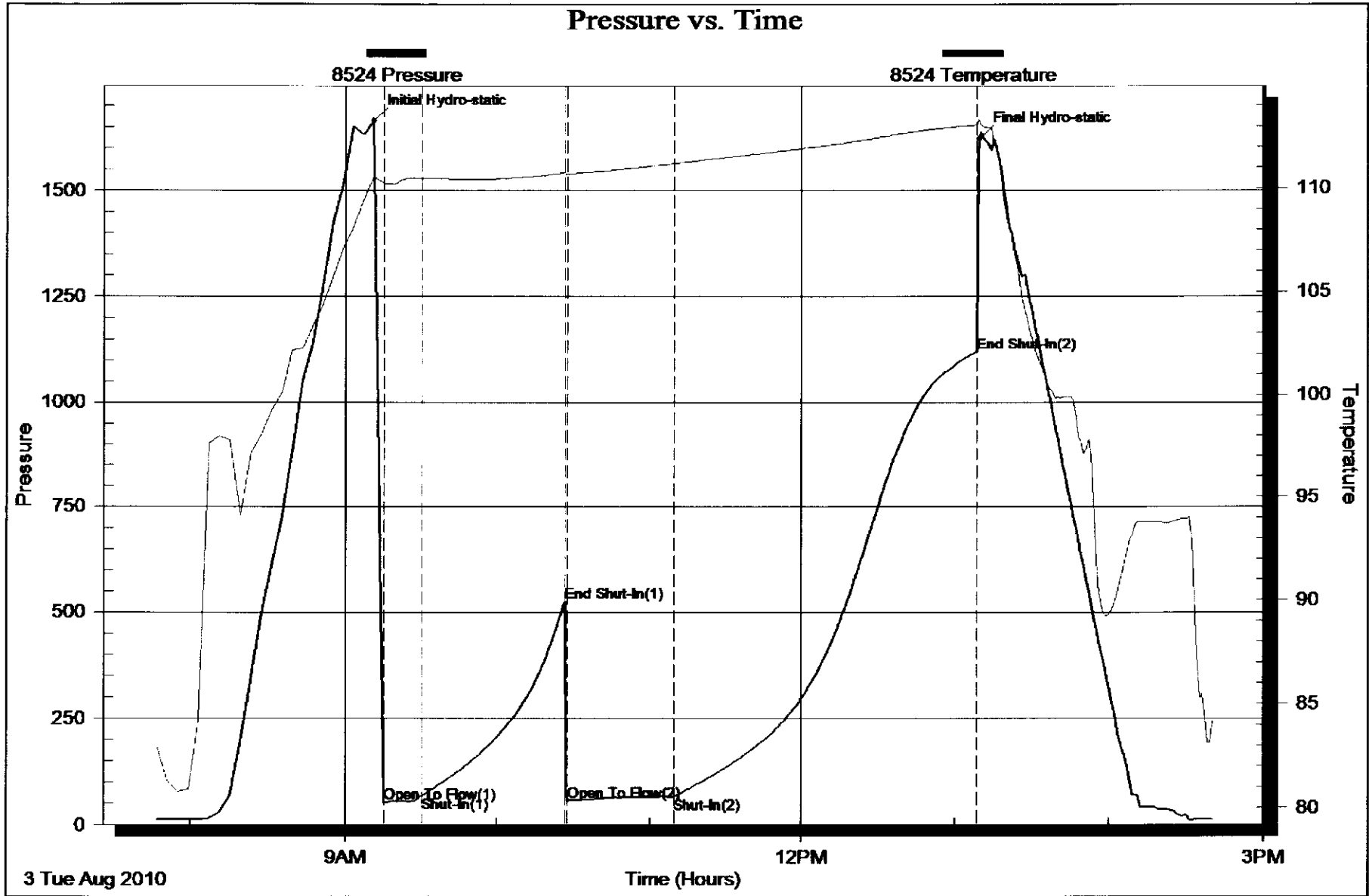
Total Length: 63.00 ft Total Volume: 0.884 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: There was not enough break over on the final shut-in to get an accurate extrapolation 65% break over is needed





Horner Plot

