

KANSAS CORPORATION COMMISSION 1047418
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

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

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: THOMAS G. FERTAL
 Phone: (303) 831-4673
 CONTRACTOR: License # 33350
 Name: Southwind Drilling, Inc.
 Wellsite Geologist: TIM HEDRICK
 Purchaser: GARY WILLIAMS ENERGY COMPANY

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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>07/29/2010</u>	<u>08/07/2010</u>	<u>08/20/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-21892-00-00

Spot Description: _____
NW NW SW SE Sec. 10 Twp. 17 S. R. 16 East West
1100 Feet from North / South Line of Section
2560 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Rush

Lease Name: BRACK ET AL Well #: 1-10

Field Name: _____

Producing Formation: ARBUCKLE

Elevation: Ground: 1999 Kelly Bushing: 2007

Total Depth: 3674 Plug Back Total Depth: 3651

Amount of Surface Pipe Set and Cemented at: 1108 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: 47000 ppm Fluid volume: 1000 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite: _____

Operator Name: SAMUEL 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: 11/24/2010
 Confidential Release Date: 11/23/2012
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
 ALT I II III Approved by: NAOMI JAMES Date: 11/30/2010



1047418

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: BRACK ET AL Well #: 1-10

Sec. 10 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 border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Datum</th> </tr> </thead> <tbody> <tr> <td>TOPEKA</td> <td>2993</td> <td>-986</td> </tr> <tr> <td>HEEBNER</td> <td>3225</td> <td>-1218</td> </tr> <tr> <td>DOUGLAS</td> <td>3258</td> <td>-1251</td> </tr> <tr> <td>LANSING</td> <td>3283</td> <td>-1276</td> </tr> <tr> <td>ARBUCKLE</td> <td>3549</td> <td>-1542</td> </tr> <tr> <td>TD</td> <td>3674</td> <td></td> </tr> </tbody> </table>	Name	Top	Datum	TOPEKA	2993	-986	HEEBNER	3225	-1218	DOUGLAS	3258	-1251	LANSING	3283	-1276	ARBUCKLE	3549	-1542	TD	3674	
Name	Top	Datum																				
TOPEKA	2993	-986																				
HEEBNER	3225	-1218																				
DOUGLAS	3258	-1251																				
LANSING	3283	-1276																				
ARBUCKLE	3549	-1542																				
TD	3674																					

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	1108	CLASS A	400	3%CC, 2%GEL
PRODUCTION	7.875	5.5	15	3658	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
— Perforate				
— Protect Casing	-			
— Plug Back TD				
— 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	3556'-59'	400 gallons 15% Acetic acid followed by 56 bbls of produced Arbutckle water	3556'-59'
4	3560'-64'	400 gallons 15% Acetic acid followed by 56 bbls of produced Arbutckle water	3556'-59'
4	3423'-28'	500 gallons of 28% MCA with 3% MAS.	3423'-28'

TUBING RECORD:	Size: <u>2.875"</u>	Set At: <u>3614</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>08/31/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
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Estimated Production Per 24 Hours	Oil Bbls. <u>10</u>	Gas Mcf	Water Bbls. <u>5</u>	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3423'-3564' OA</u>
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	BRACK ET AL 1-10
Doc ID	1047418

All Electric Logs Run

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



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

November 24, 2010

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

Re: ACO1
API 15-165-21892-00-00
BRACK ET AL 1-10
SE/4 Sec.10-17S-16W
Rush County, Kansas

Dear Production Department:

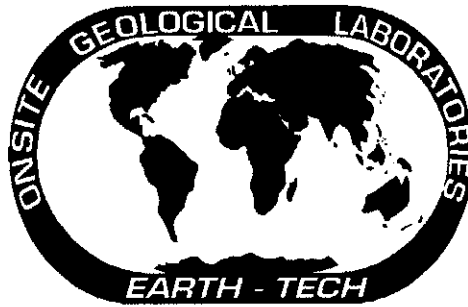
We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

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

Respectfully,
THOMAS G. FERTAL

CONSERVATION DIVISION

Finney State Office Building, 130 S. Market, Room 2078, Wichita, KS 67202-3802
(316) 337-6200 • Fax: (316) 337-6211 • <http://kcc.ks.gov/>



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

Well Name: BRACK ET AL 1-10
Location: SEC 10-17S-16W RUSH COUNTY, KS.
License Number: API 15-165-21892-00
Spud Date: 7/ 29/2010
Surface Coordinates: 1100 FSL & 2560 FEL,
Region: WILDCAT
Drilling Completed: 8/06/2010

Bottom Hole
Coordinates:
Ground Elevation (ft): 1999' K.B. Elevation (ft): 2007'
Logged Interval (ft): 1724' To: 3675' Total Depth (ft): 3675'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

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

OPERATOR

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

GEOLOGIST

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

DST Information

DST #1- 3254- 3313' 20-60-45-150
IF- 2" WK BLO/ ISI- NO BLO/ FF- WK TO 3"/ FSI- NO BLO
IH-1622, FH-1536 / IF-16 TO 58, FF-64 TO 120/ ISI-1071, FSI- 1059
RECOVERED- 30' MUD W/ OIL SPOTS/ 185' WATER 78,000 CHL. ,SYST-CHL. 4500/ BHT 113 DEG.

DST#2 3320-3372' 15 60 45 150
IF-BOB 13 MIN./ ISI- NO BLO/ FF-BLD TO 5" WK/ FSI- NO BLO
IH- 1632, FH- 1571/ IF-42 TO 45, FF-57 TO 91/ISI- 1054, FSI-1053/ RECOVERED-155' TOTAL FL., 10' CLEAN
OIL, 120' GIP BHT 112 DEG, 145' WATER.
CHL- 80,000, SYST CHL-6100

DST information

DST#3 3392 - 2418 15-60-15-60
IF-WK DIED IN 5 MIN,ISI- NB/ FF- NB/ FSI-NB
IH-1681, FH-1612/ IF-18 TO 21, FF-23 TO 27 / ISI-282, FSI-56
RECOVERED- 3' MUD W/ OIL SPOTS, BHT 110 DEG

DST#4 3415- 3450 20-60-60-180
IF-2" BLO / ISI-NB/ FF-BOB IN 8 MIN./ FSI-NB
IH- 1659, FH-1598/ IF- 18 TO 28, FF-23 TO 42/ ISI--1074, FSI-1103/ BHT- 113 DEG
RECOVERD 75' TF, 480' GIP/ 60' MCGO, 10%G., 70% O., 20% M./ 15' OCGM, 20%G., 30% O., 50%M.

DST Information

DST#5 3556-3567 10-60-30-90

IF- BOB 4 MIN., ISI-WK DIED IN 20 MIN, FF- BOB 3 MIN., FSI-WK BLO DIED IN 36 MIN.

IH-1751, FH-1685/ IF- 31 TO 51, FF- 60 TO 126/ ISI-1101, FSI-988.

RECOVERED- 360' TF, 550' GIP/ 80' MCGO, 10%G., 70%O., 20%M./ 280' CGO, 15%G., 85% O., 32 GR. BHT 120 DEG.

ROCK TYPES

Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal
 Congl
 Dol

Gyp
 Igne
 Lmst
 Meta
 Mrst
 Salt
 Shale
 Shcol

Shgy
 Sltst
 Ss
 Till
 Carb sh
 Dol
 Dtd
 Gry sh

Sandylms
 Shale
 Sltstn
 Shlyslts
 Slysh
 Lms

ACCESSORIES

MINERAL

Anhy
 Arggrm
 Arg
 Bent
 Bit
 Brecfrag
 Calc
 Carb
 Chtdk
 Chtit
 Dol
 Feldspar
 Ferrpel
 Ferr
 Glau
 Gyp
 Hvymin
 Kaol
 Marl
 Minxl
 Nodule
 Phos
 Pyr

Salt
 Sandy
 Silt
 Sil
 Sulphur
 Tuff
 Chlorite
 Dol
 Sand
 Sily

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

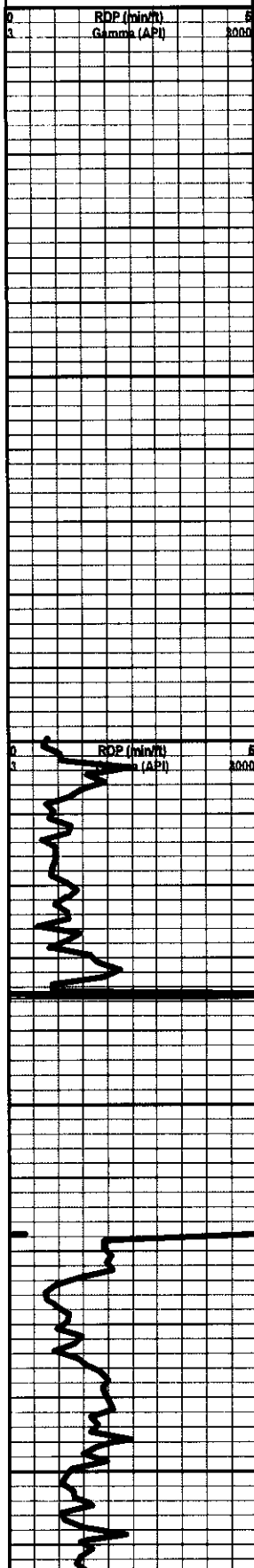
Curve Track 1
 ROP (min/ft) 
 Gamma (API) 

TG, C1-C5
 TG (units) 
 C1 (units) 
 C3 (units) 
 C4 (units) 
 C5 (units) 

Depth

Lithology

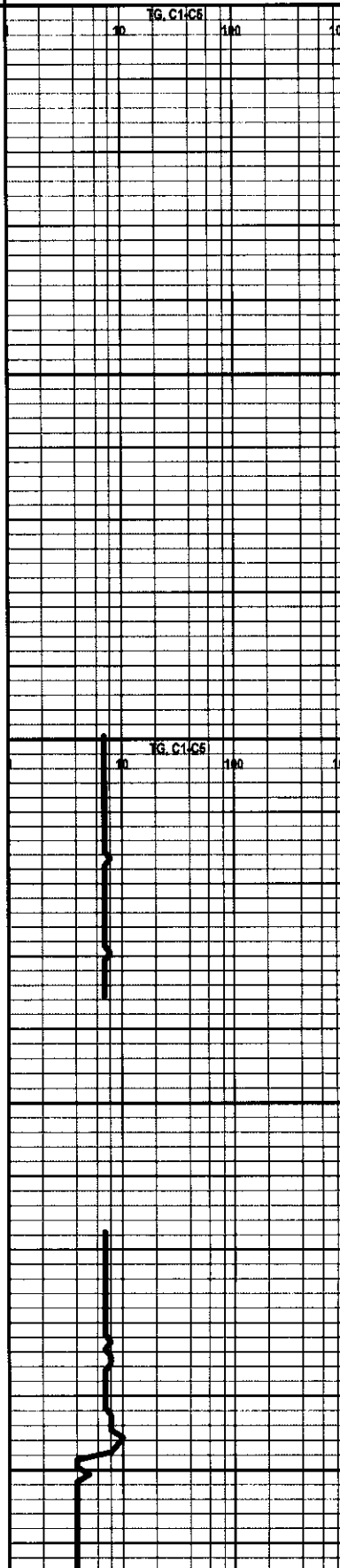
Geological Descriptions

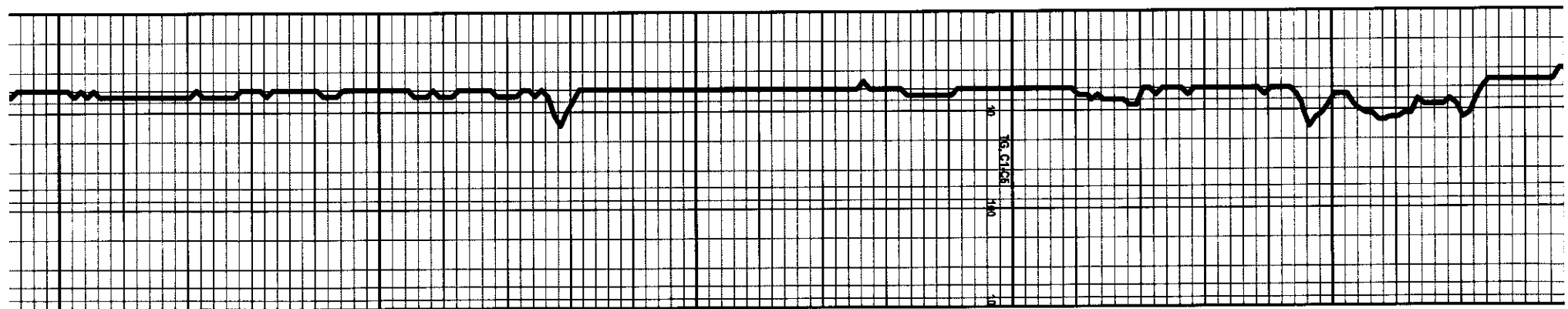
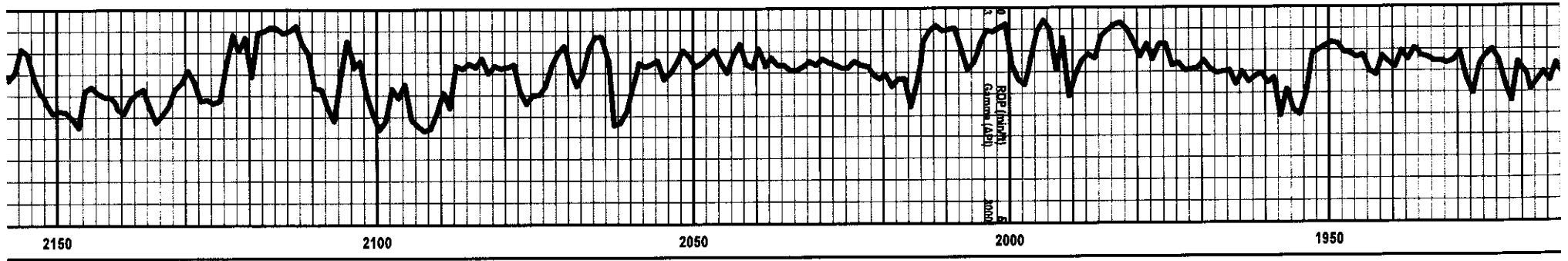


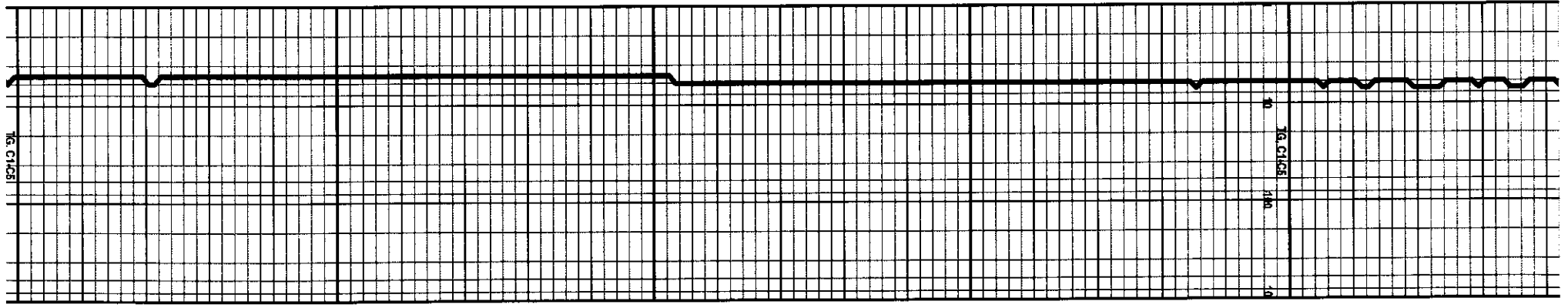
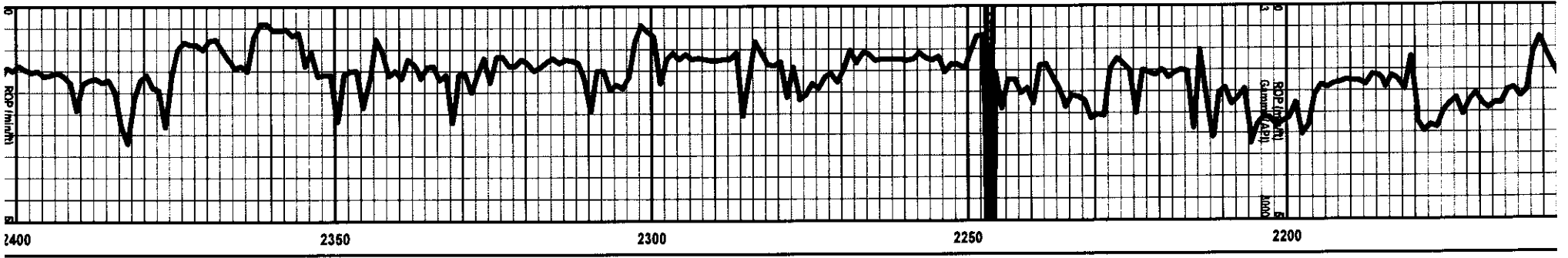
Oil Shows

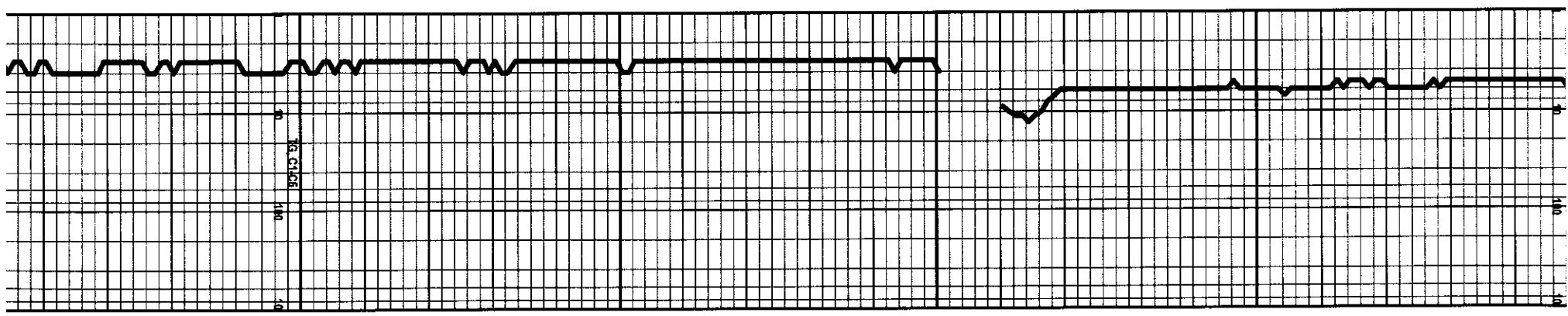
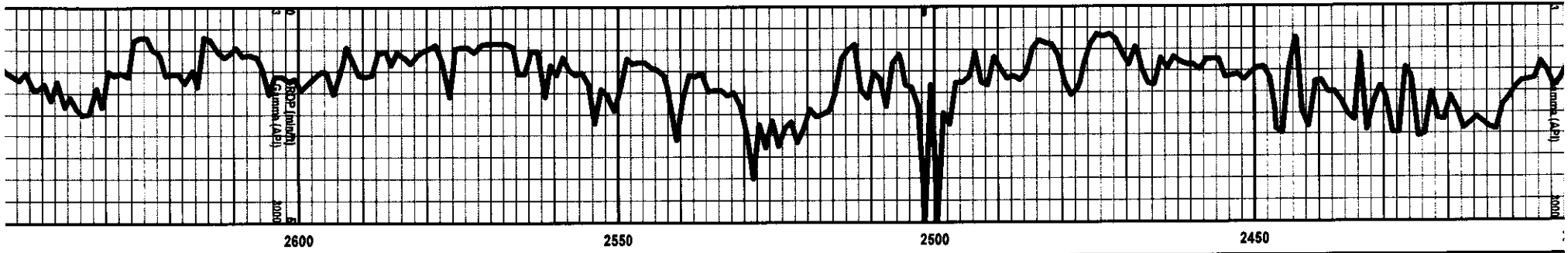
START UN MANNED LOGGING UNIT 07/31/2010

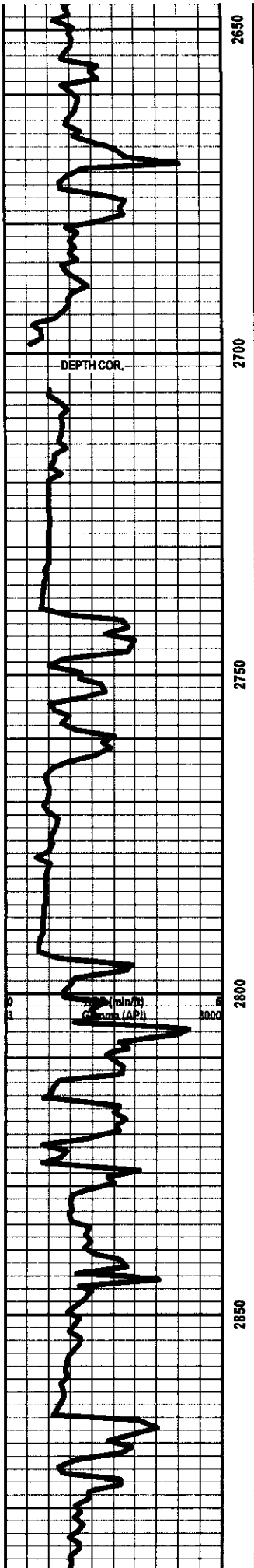
GEOLOGRAPH CABLE BROKE 1837'-1867'







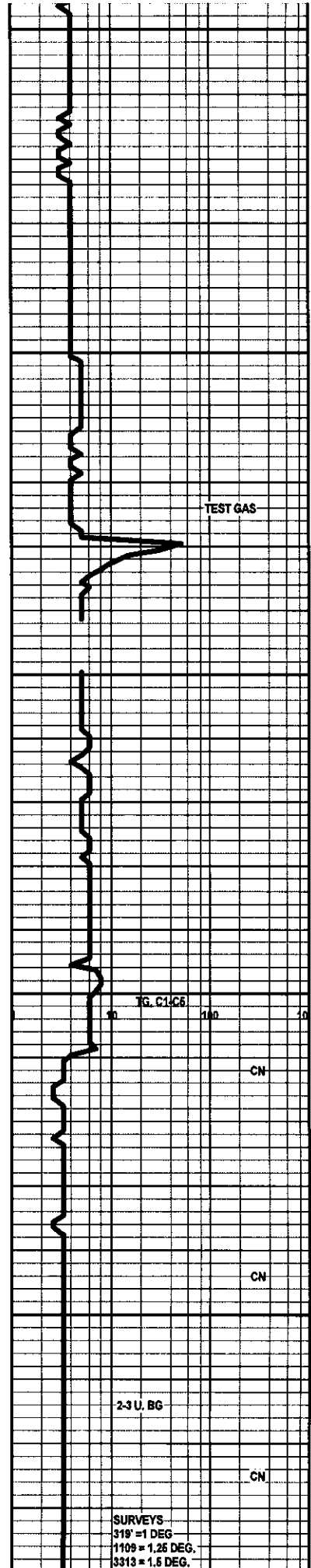




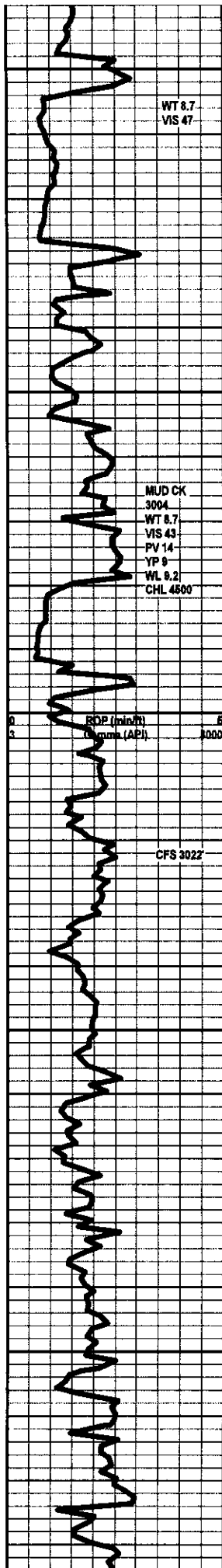
BASE ROOT SH. 2739' - 732'

DISPLACE @ 2805'

START 24 HR MANNED UNIT 8/01/2010



SURVEYS -
 319' = 1 DEG
 1109 = 1.25 DEG.
 3313 = 1.5 DEG.



LS- CRM BFF- HD DNS TO BRITT IP, MD-XLN TO TT SUCRO MTRX, TR SML QURTZ GRNS IMBD, NO FLO, NO VIS POR, NO VIS SHOW

SH- LT GY TO DK GY- FRM BLKY IP TO V/ SFT SLTY,

HOWARD 2926' - 919'

LS- TN DK BRN IP, HD DNS MOTT, F-V/F-XLN, TR FOSS FRGS IP, TR DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

LS- CRM OFF WHT- HD DNS TO TR BRITT, MD-XLN TO SUCRO IP, TR PHNTM FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM LT GY- HD TO MD HD- MD-F-XLN RE-XLN IP SLI MOTT, W/ ABDT SFT WHT CHLK IP, TR IMBD LT GY SH, NO FLO, NO VIS POR, NO VIS SHOW

SH- LT TO MD GY- FRM IP TO V/ SFT SLTY LOOKING TXT, SLI TR PYR, TR CALC IP

TOPEKA 2992' - 985'

LS- DK TN BRN- HD DNS TR BRITT, ABDT IMBD F-MD ANG LM GRNS THRU, POSS DOLO CMNT THRU, NO FLO NO VIS POR, FR VIS SLO STRM CUT, NO ODOR

SH- LT TO MD GY- FRM BLKY SMTH TXT, SLI SLTY

LS- CRM BFF- HD DNS TO BRITT, MD-F-XLN, SUCRO S-CHLKY TO CHLKY MTRX IP, IMBD SMLL ANG QURTZ GRNS AND LM GRNS, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM BFF- MD-HD TO SFT, V/ SUCRO TO S-CHLKY MTRX, ANDT IMBD FOSS FRGS, TR IMBD ANG LM GRNS, TR SFT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN - HD DNS TR BRITT, MD-F-XLN SLI S-SUCRO IP, TR FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

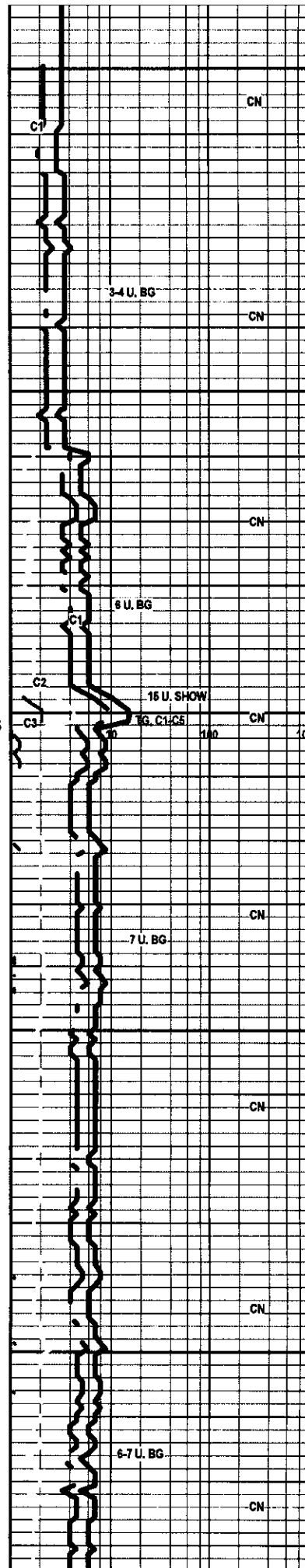
LS- OFF WHT BFF- HD BRITT, SUCRO MTRX, SLI S-CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

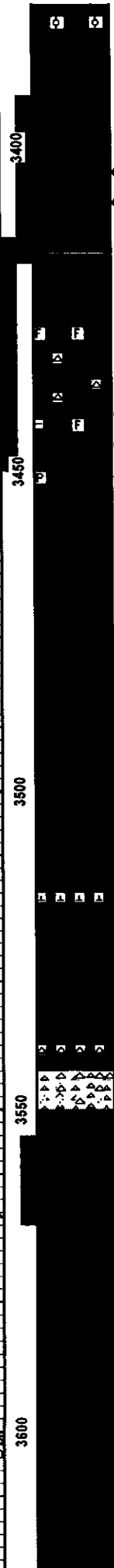
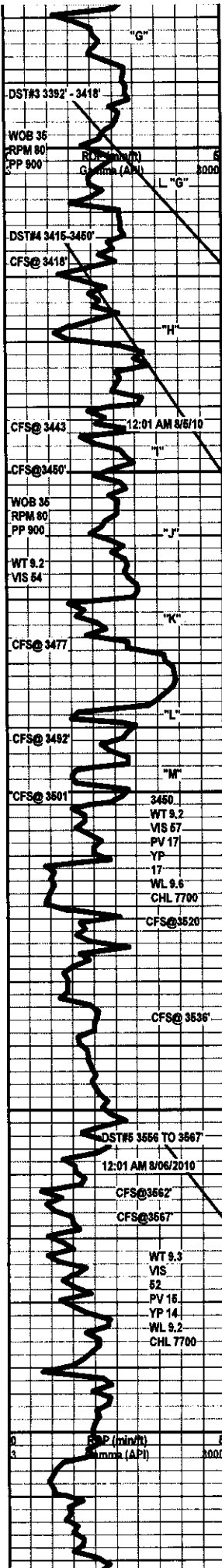
LS- OFF WHT CRM BFF- MD-HD TO SFT, V/ SFT V, SUCRO S-CHLKY MTRX, W/ IMBD LT BRN SH IP, TR FOSS FRGS, NO FLO, NO VIS POR, NO VIS SHOW

LeCOMPTON 3101' - 1094'

LS- CRM BFF- HD BRITT, MD-F-XLN, RE-XLN TRX R WHT CHRT IP, TR WHT SFT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM BFF TN LT BRN- HD DNS MOTT, F-V/F-XLN, TR IMBD SMLL ANG LM GRNS, HVY TR LMNTD SML TO MD CALC XLS ON ONE FACES OF ROCK, NO FLO, NO VIS POR, NO VIS SHOW





LS-CRMLT TN TN-HD DNS TO BRITT IP, MD-F-XLN, RE-XLN MTR IP, TR MICRO OOL IP, GRDNG TO F-VF-XLN S-SUCRO TO S-CHLKY IP, N O FLO, NO VIS POR, NO VIS SHOW

LS-CRMLT TN TN-HD DNS, F-VF-XLN, SLI TR FOSS FRG IP, NO FLO, NO VIS POR, NO VIS SHOW

3399 TO 3409 - LS-LT TN TN-LT GY-MOTT, HD DNS F-VF-XLN TR SUCRO IP, (TN OIL STN IN 60% ON ONE FACES OF ROCK), MD CALC XLS IMBD ON ONE FACES OF ROCK IN 40%, SLI TR CHLK IP, DLL YEL GLD FLO THRU, BRIT YEL GLD FLO SCAT IN 80%, POSS FRACT POR, TR MICRO PP POR IP, GD FLSH CUT TO GD SLO STRM CUT, FR OIL ODOR, NO STN ON DISH

3426 TO 3432' LS-TN DK BRN, 90% EVEN BRN OIL STN THRU) HD DNS IP TO V/ BRITT, MD-XLN, RE-XLN MTRX, ABDT IMBD SMLL TO MD ANG LM GRNS THRU, SCAT FOSS IP, SMLL CALC XLS IMBD IP, DLL YEL GLD FLO THRU, BRIT YEL GLD FLO IN 90%, PR-FR TR GD INTER-XLN POR THRU, TR GD VUG POR IP, HVY TR GD INTER-FOSS POR IP, GD OIL ODOR, EXCEL INST STRNG FLSH CUT TO EXCEL SLO STRM MLKY BLU CUT, TN LCH ON DISH

3440-3443' LS-OFF WHT CRM LT TN (TN STN IN 10-20%) HD TO MD HD-MD-XLN RE-XLN MTRX, SUCRO S-CHLKY IP, FOSS FRGS IMBD IP, SLI TR IMBD GRN CLAY IP, DLL YEL GLD FLO IP, BRIT YEL GLD FLO IN 20%, PR FLSH CUT, FR SLO STRM CUT IN 20%, NO VIS POR IN 90%, SLI TR SCAT MICRO PP POR IN 10%

3445' LS-OFF WHT CRM LT TN IP SCAT STN IN ISOLATED MICROVUGS) HD DNS F-VF-XLN, RE-XLN, SLI TR SMLL CALC XLS IMBD IP, DLL YEL GLD FLO IP, TO BRIT YEL GLD FLO IN 60%, V/ PR SCAT ISOLATED MICROVUG POR IP, FR FLSH CUT TO FR SLO STRM CUT.

3450' LS-CRMLT TN TN-HD DNS TO BRITT, (SCAT LT BRN OIL STN IN 60-70%, MD-F-XLN, RE-XLN MTRX, SMLL CALC XLS LMNTD AND SCAT THRU, TR SMLL TO MD LM GRNS IP, SLI TR PYR CLSTRS IP, DLL YEL GLD FLO THRU, SCAT BRIT YEL GLD FLO IN 80%, PR SCAT MICRO VUG POR, TR TIGHT MICRO PP POR IP, GD FLSH TO V/ GD SLO STRM RICH MLKY BLUE CUT, LT TN LCH ON DISH

3470-76' LS-CRMLT TN BRN GY BLK (TAR STN SCAT IN 30%) HD DNS TR BRITT, F-CLN TO V/ TT SUCRO MTRX IP, GRDNG TO ABDT SFT GMMY CHLK IP, NO DLL FLO, SCAT BRIT YEL GLD FLO IN 20%, PR VIS SCAT ISOLATED MICROVUG POR IP, BLK OIL AND TAR STN IN POR, FLEETING OIL ODOR, PR FLSH TO GD SLO STRM CUT IN 30%

3488-89' LS-OFF WHT TO CRM, FRM TO SFT, ABDT WHT CHLKY MTRX, ABDT SFT GMMY WHT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

SH-MD TO DK GY-FRM BLKY SMTH TXT IP, LT GRN SMTH TXT IP

SH-RED-DK RD-FRM BLKY GRNY TXT TO V/ SFT GMMY, W/ ABDT SFT WHT IP, NO FLO, NO VIS POR, NO VIS SHOW

3520-26 LS-CRMLT TN YELLOW-HD DNS MOTT, F-VF-XLN TR S-SUCRO IP, NO FLO, NO VIS POR, NO VIS SHOW
SH-RED DK RED-FRM BLKY GRNY TXT TO V/ SFT GMMY TXTIP

LS-CRMLT TN-HD DNS F-VF-XLN, TR FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

CHRT - RED ORANGE WHITE, WTHRD W, SLI TR IMBD SMLL RND CLR QURTZ GRNS IMBD

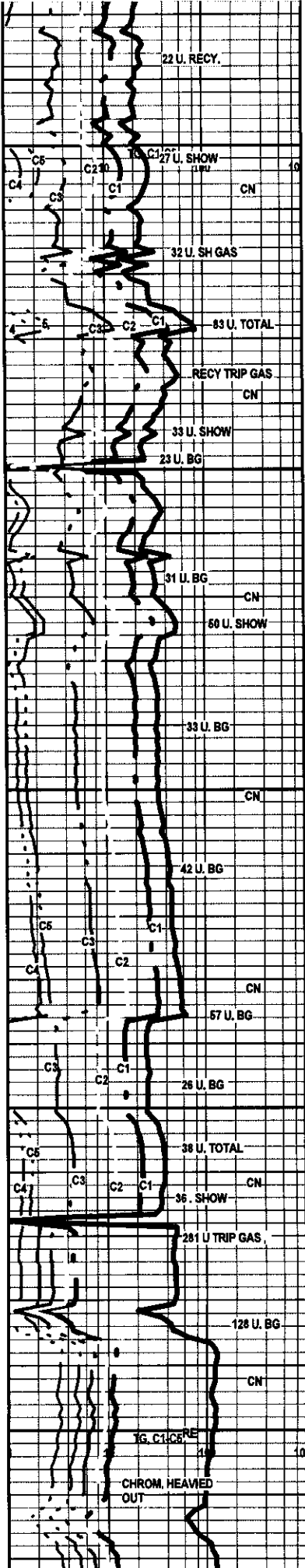
ARBUCKLE 3552' - 1545'

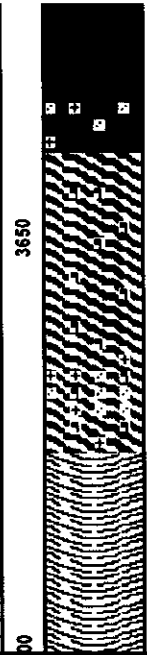
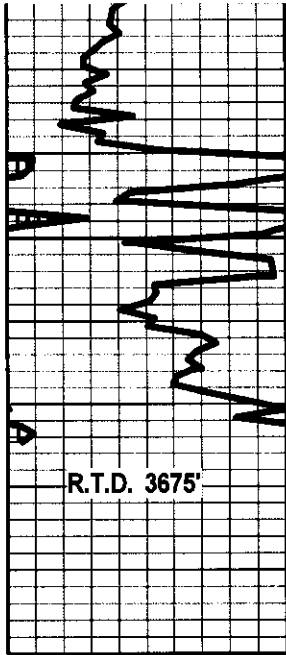
3562 TO 3562' DOLO-WHT W/ DK TN OIL STN IN 80-90%, HD TO V/ BRITT, F-XLN TO ABDT IMBD MD ANG WHT DOLO GRNS, THRU, TR PYR CLSTRS IP, DLL YEL GLD FLO THRU, TR SCAT BRIT YEL GLD FLO IN 10%, PR TO FR-GD TR EXCEL INTER-XLN POR THRU, GD OIL ODOR, EXCEL FLSH CUT TO EXCEL SLO STRM MLKY BLU CUT

3562 TO 3567' DOLO - WHT W/ DK TN OIL STN IN 100%, HD TO V/ BRITT, F-XLN TO ABDT IMBD SMLL TO MD ANG WHT DOLO GRNS THRU, RICH DLL YEL GLD FLO THRU, SCAT BRIT YEL GLD FLO IP, GD TO EXCEL INTER-XLN POR, ABDT FREE DOLO GRNS IN TRAY, EXCEL INST FLSH CUT TO EXCEL SLO STRM MLKY BLU CUT, V/ STRNG OIL ODOR, OIL IN SAMPLE BUCKET LIVE OIL IN DIMPLE DISH

3567 - 3574' DOLO-WHT LT TN DUE TO STN IN 100%, HD DNS IP TO V/ BRITT, F-XLN TO ABDT IMBD SMLL TO MD ANG WHT DOLO GRNS THRU, RICH DLL YEL GLD FLO THRU, SCAT BRIT YEL GLD FLO IP, GD TO EXCEL INTER-XLN POR, ABDT FREE DOLO GRNS IN TRAY, EXCEL INST FLSH CUT TO EXCEL SLO STRM MLKY BLU CUT, V/ STRNG OIL ODOR, LIVE OIL RUNNING OUT OF TRAYS UPON CLEANING, BRN OIL STN ON DISH

3575-3582' DOLO-WHT LT TN TN STN IN 60-70%, HD DNS IP TO V/ BRITT, ABDT IMBD SMLL TO MD ANG DOLO GRNS THRU, DLL YEL GLD FLO IN 80%, SPTTD BRIT YEL GLD FLO IP, GD TO EXCEL INTER-XLN POR, TR VUG POR IP, HVY TR SFT WHT CHLK IP, GD OIL ODOR, LIVE OIL IN TRAY UPON WASHING SAMPLE, EXCEL FLUSH ANS SLO STRM MLKY BLUE CUT IN 60-70%, BRN LCH ON DISH.





3663-3620-DOLO-WHT OFF WHT LT TR-HD DNS, F-ALN TO TO 11
 SUCRO MTRX THRU, TR SFT WHT CHLK IP, LT YEL MIN FLO PR VIS
 INTER-XLN POR IP PP POR IP, NO VIS CUT OR SHOW

3620-3639' DOLO- LT TN TN WHT IP, HD DNS TO BRITT, W TT SUCRO
 MTRX TO SMALL AND DOLO GRNS IP, HVY TR SMALL S-RND CLR QURTZ
 GRNS IMBD IP, HVY TR SMALL TO MD ANG QURTZ GRNS IP, TR FLDSPR,
 NO VIS FLO, PR VIS INTER-XLN POR IP, NO VIS CUT OR SHOW

3640' - 3655' QURTZITE- FRSTY CLR, HD DNS ABTD SMLL TO MD TO
 LRG CHARDS OF ANG QURTZ, ABTD IMBD MAGNETITE, HVY TR GRN
 CLAY IP, NO FLO, NO VIS POR, NOVIS SHOW

3656 - 70' QURTZITE- FRSTY WHT ORANGE, HD DNS TO BRITT IP,
 ABTD SMLL MD LRG ANG QURTZ GRNS, W/ HVY TR IMBD SMLL TO MD
 S-ANG TO ANG QURTZ GRNS, ABTD IMBD LMBTD AND DISS
 MAGNETITE, MICRO MICA IP, W, ABTD FLDSPR, TR GRN CLAY IMBD IP,
 NO FLO, NO VIS POR, NO VIS SHOW

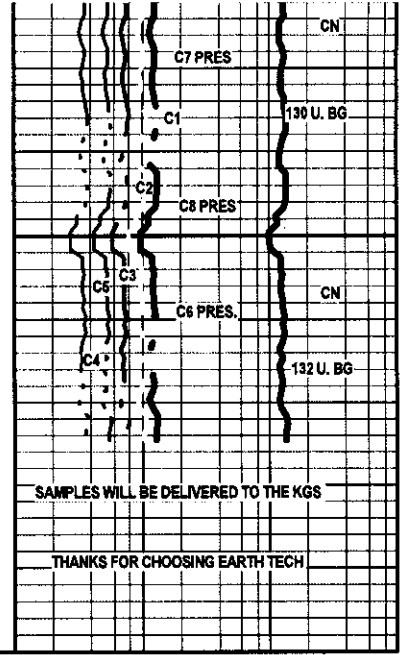
3672 - 76' QURTZITE- HD DNS - CLR TO FRSTY ORNG, ABTD
 MD TO LRG ANG S-ANG QURTZ GRNS AND CHARDS, ABTD IMBD
 MAGNETITE, FLDSPR, TR CLAY IP, NO FLO, NO VIS POR, NO VIS SHOW

T.D. AT 6:48 PM 8/06/2010

CTCH 2 HRS

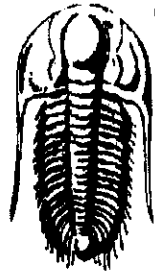
TRIP OUT F/ LOGS

WEATHERFORD /LIBERAL



SAMPLES WILL BE DELIVERED TO THE KGS

THANKS FOR CHOOSING EARTH TECH



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Tom Fertal

10-17-16-Rush-Ks

Brack et al # 1-10

Start Date: 2010.08.03 @ 04:15:53

End Date: 2010.08.03 @ 12:07:08

Job Ticket #: 039912 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Sam Gary

Brack et al # 1-10

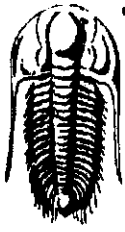
10-17-16-Rush-Ks

DST # 1

A-C

LKC

2010.08.03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary
 1515 Wynkoop Ste 700
 Denver Co 80202
 ATTN: Tom Fertal

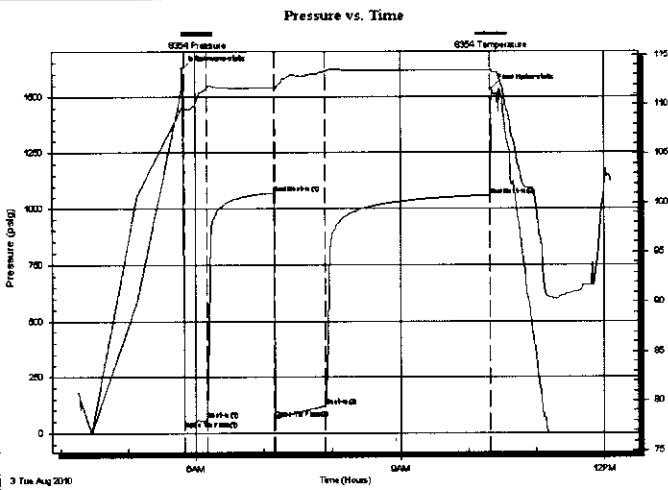
Brack et al # 1-10
10-17-16-Rush-Ks
 Job Ticket: 039912 **DST#: 1**
 Test Start: 2010.08.03 @ 04:15:53

GENERAL INFORMATION:

Formation: **A-C LKC**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 05:49:23
 Time Test Ended: 12:07:08
 Interval: **3254.00 ft (KB) To 3313.00 ft (KB) (TVD)**
 Total Depth: **3313.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Dan Bangle**
 Unit No: **38**
 Reference Elevations: **2007.00 ft (KB)**
1919.00 ft (CF)
 KB to GR/CF: **88.00 ft**

Serial #: 8354 Inside
 Press@RunDepth: **120.93 psig @ 3257.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.08.03** End Date: **2010.08.03** Last Calib.: **2010.08.03**
 Start Time: **04:15:54** End Time: **12:07:08** Time On Btm: **2010.08.03 @ 05:48:08**
 Time Off Btm: **2010.08.03 @ 10:20:53**

TEST COMMENT: IF-Weak building to 2"
 FF-Weak building to 3"



PRESSURE SUMMARY

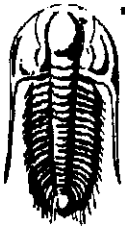
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.48	109.74	Initial Hydro-static
2	16.65	108.85	Open To Flow (1)
22	58.29	111.66	Shut-In(1)
81	1071.08	111.73	End Shut-In(1)
82	64.09	111.52	Open To Flow (2)
126	120.93	113.31	Shut-In(2)
272	1059.56	113.43	End Shut-In(2)
273	1536.40	113.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Wtr Rw .08 @ 88 = 78000ppm	2.32
30.00	Mud w / oil spots on top	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

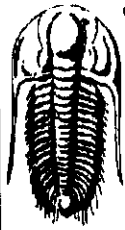
Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039912 **DST#: 1**
Test Start: 2010.08.03 @ 04:15:53

Tool Information

Drill Pipe:	Length: 3209.00 ft	Diameter: 3.80 inches	Volume: 45.01 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3254.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	87.00 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			3227.00	
Shut In Tool	5.00			3232.00	
Hydraulic tool	5.00			3237.00	
Jars	5.00			3242.00	
Safety Joint	3.00			3245.00	
Packer	5.00			3250.00	28.00 Bottom Of Top Packer
Packer	4.00			3254.00	
Stubb	1.00			3255.00	
Perforations	1.00			3256.00	
Change Over Sub	1.00			3257.00	
Recorder	0.00	8354	Inside	3257.00	
Recorder	0.00	8520	Outside	3257.00	
Drill Pipe	31.00			3288.00	
Change Over Sub	1.00			3289.00	
Perforations	21.00			3310.00	
Bullnose	3.00			3313.00	59.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039912 **DST#: 1**
Test Start: 2010.08.03 @ 04:15:53

Mud and Cushion Information

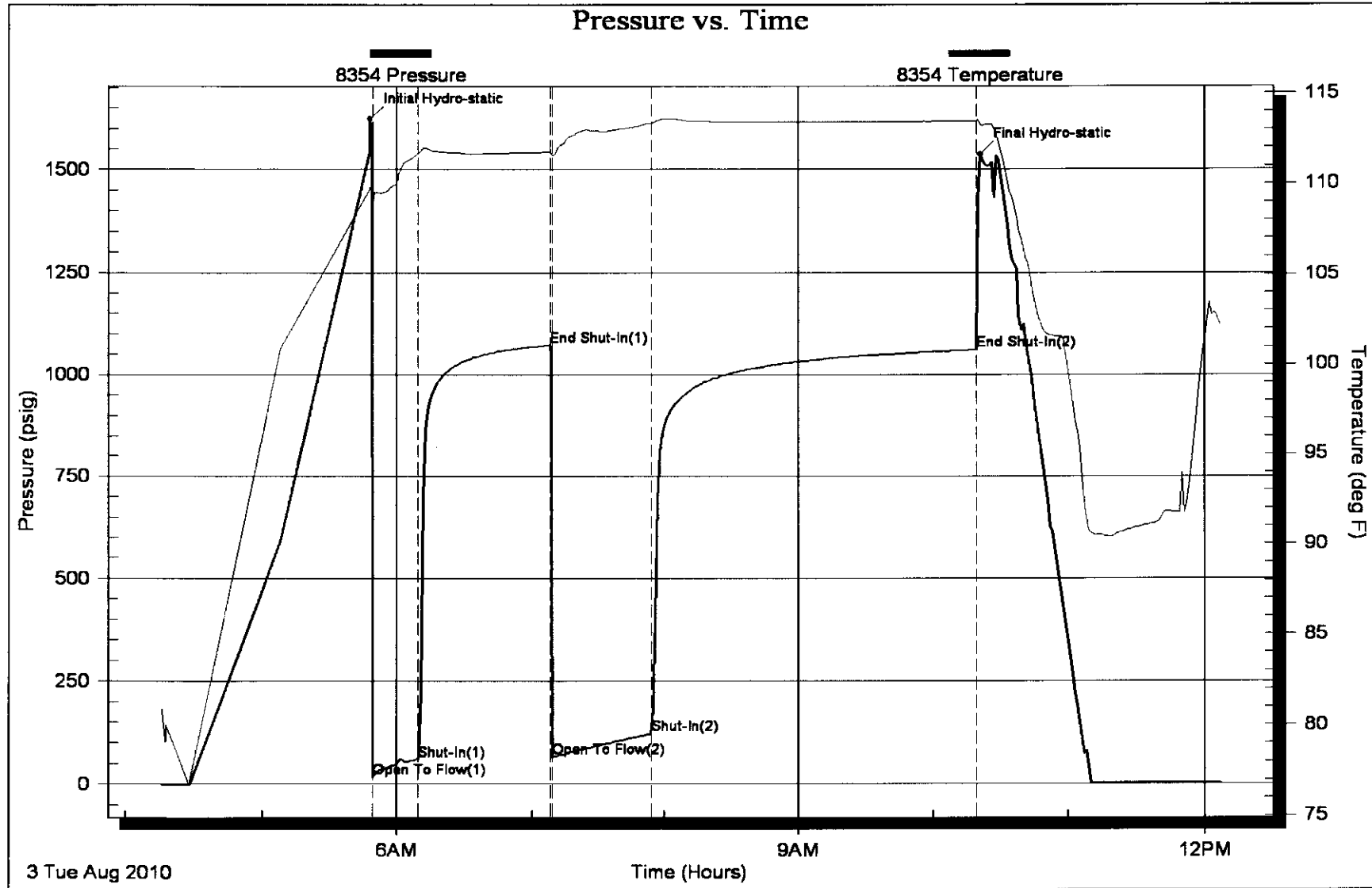
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	78000 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Wtr Rw .08 @ 88 = 78000ppm	2.322
30.00	Mud w / oil spots on top	0.421

Total Length: 215.00 ft Total Volume: 2.743 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



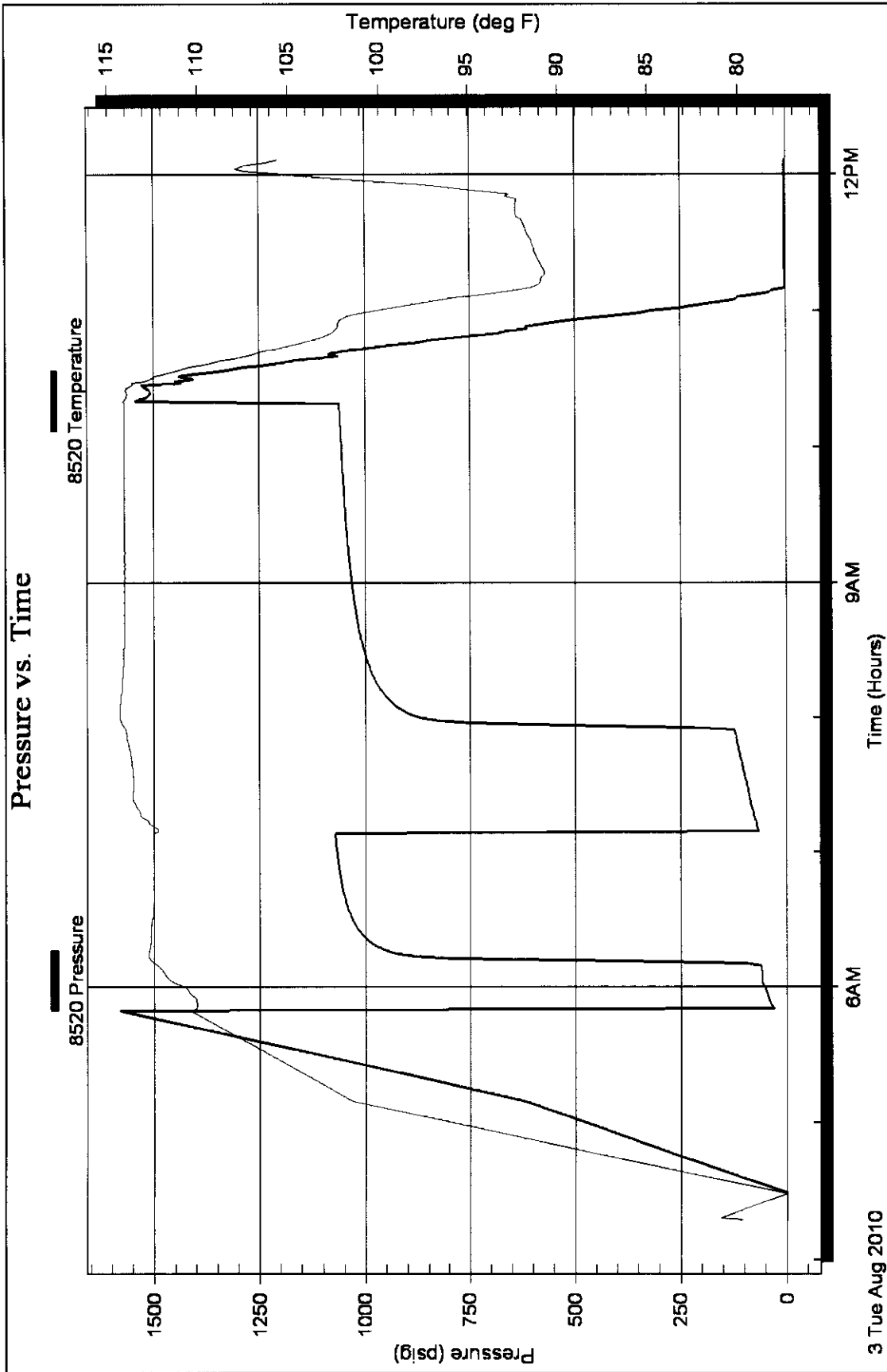
Serial #: 8520

Outside

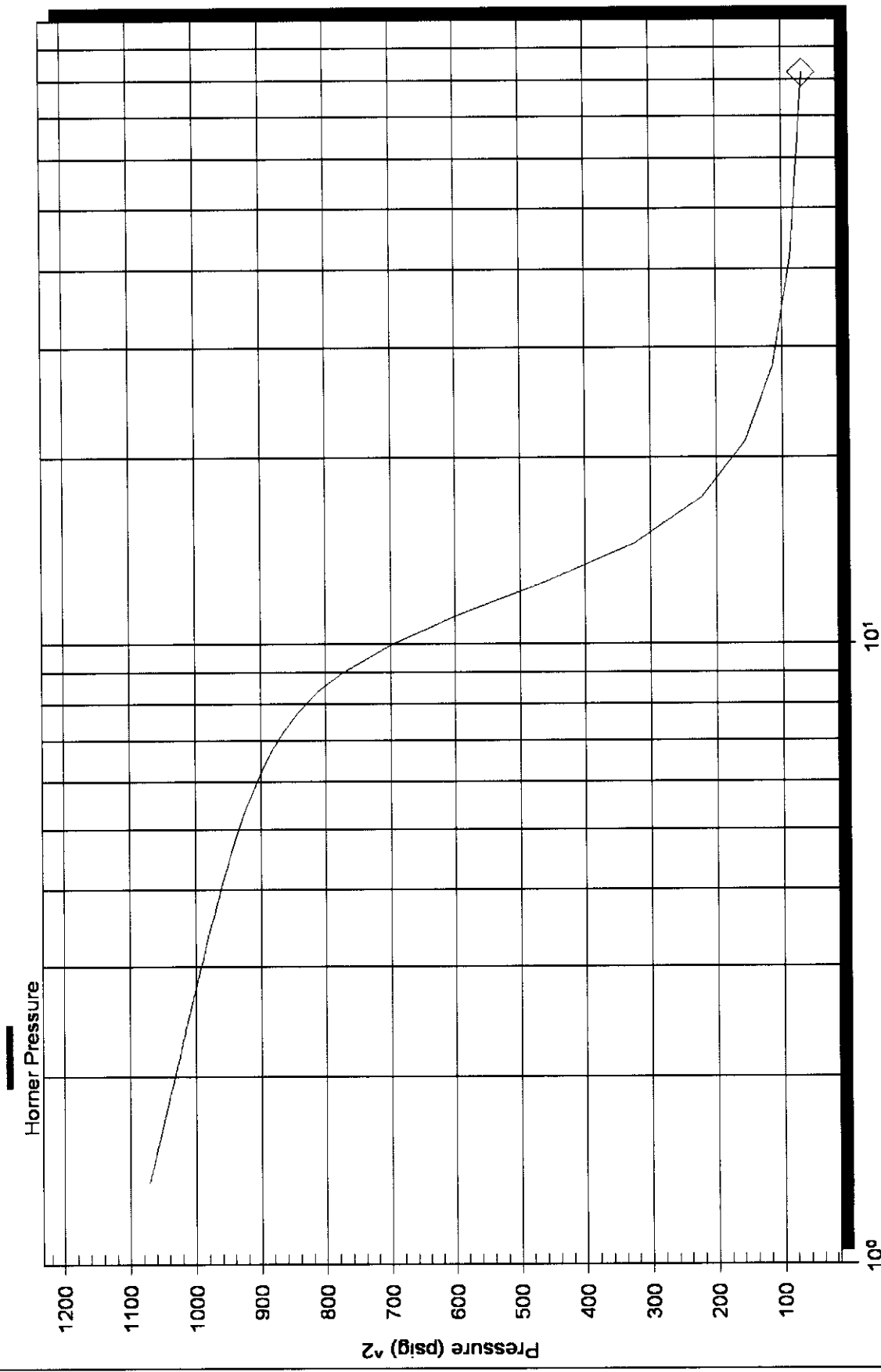
Sam Gary

10-17-16-Rush-Ks

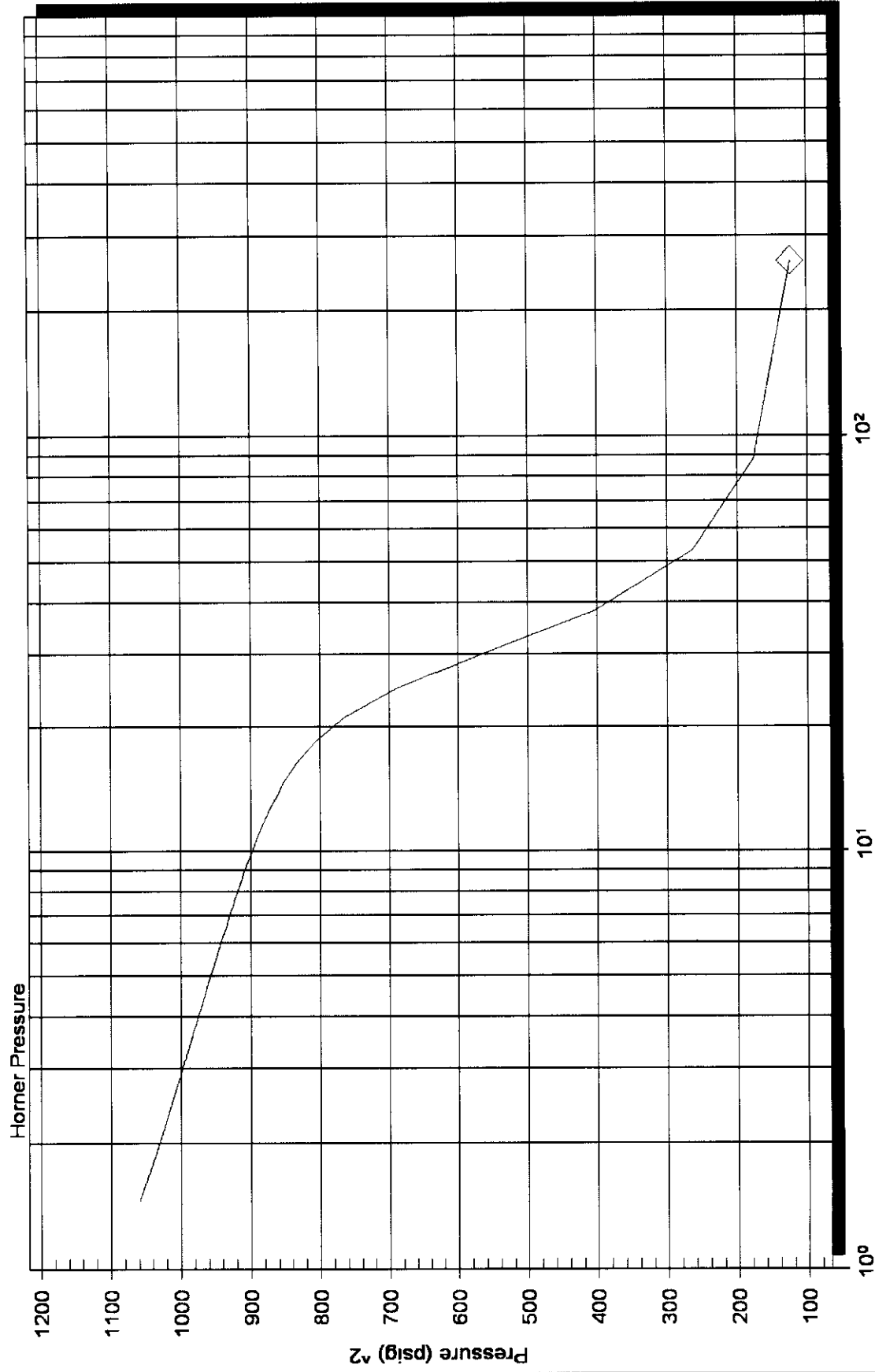
DST Test Number: 1



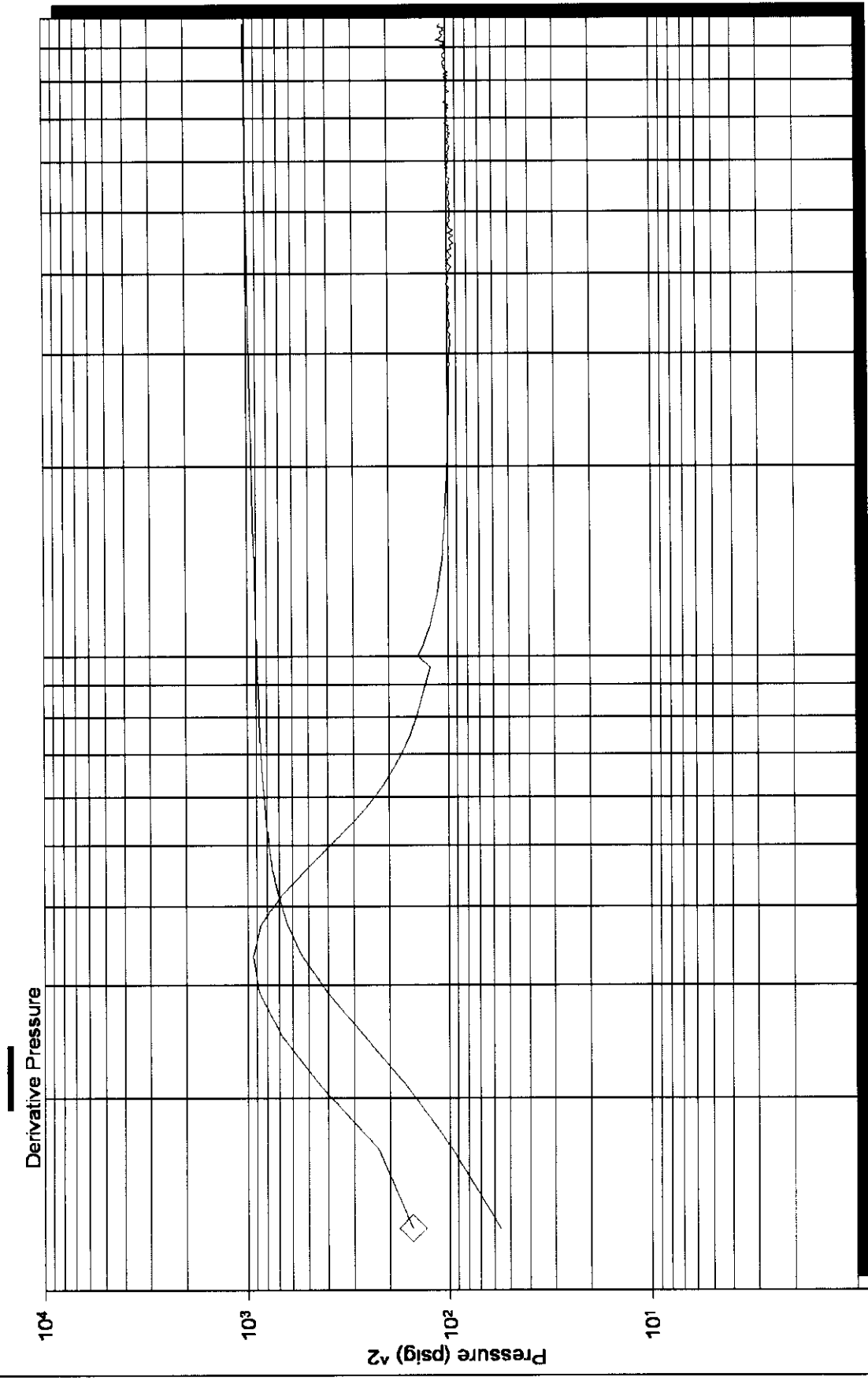
Horner Plot



Horner Plot



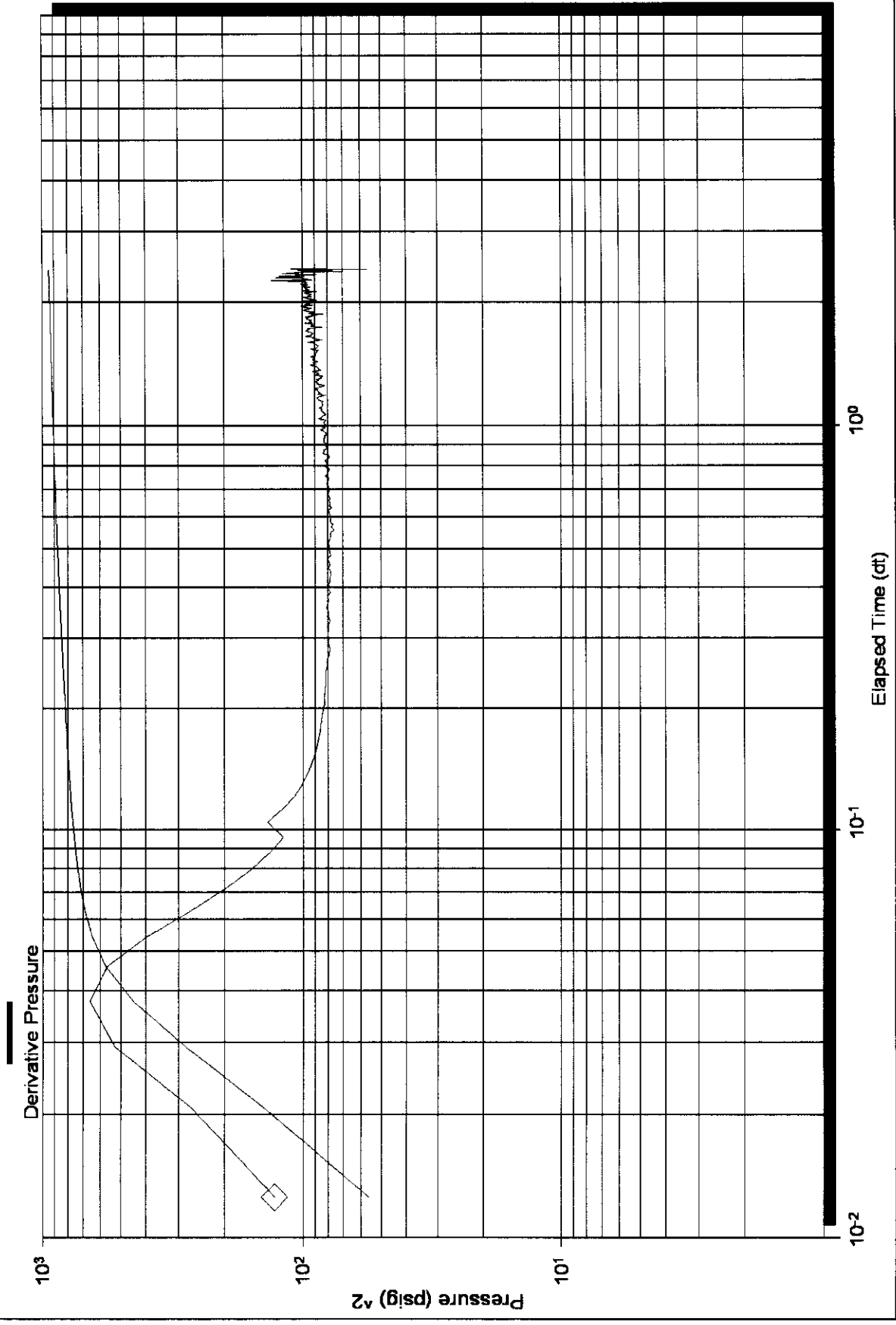
Log-Log and Pseudo-Derivative

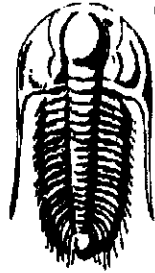


10⁻¹
Elapsed Time (dt)

10⁻²

Log-Log and Pseudo-Derivative





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Tom Fertal

10-17-16-Rush-Ks

Brack et al # 1-10

Start Date: 2010.08.03 @ 21:54:27

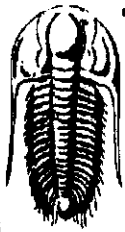
End Date: 2010.08.04 @ 05:42:42

Job Ticket #: 039913 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary
 1515 Wynkoop Ste 700
 Denver Co 80202
 ATTN: Tom Fertal

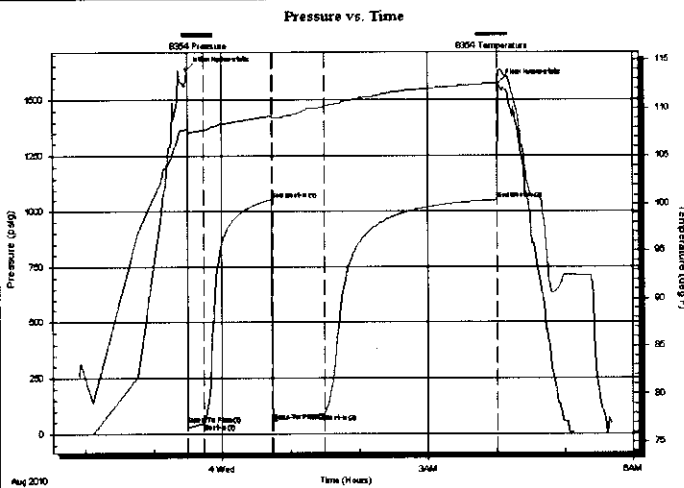
Brack et al # 1-10
10-17-16-Rush-Ks
 Job Ticket: 039913 **DST#: 2**
 Test Start: 2010.08.03 @ 21:54:27

GENERAL INFORMATION:

Formation: **D-G LKC**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 23:30:12
 Time Test Ended: 05:42:42
 Interval: **3320.00 ft (KB) To 3372.00 ft (KB) (TVD)**
 Total Depth: **3372.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Dan Bangle**
 Unit No: **38**
 Reference Elevations: **2007.00 ft (KB)**
1919.00 ft (CF)
 KB to GR/CF: **88.00 ft**

Serial #: 8354 Inside
 Press@RunDepth: **91.83 psig @ 3323.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.08.03** End Date: **2010.08.04** Last Calib.: **2010.08.04**
 Start Time: **21:54:28** End Time: **05:42:42** Time On Btm: **2010.08.03 @ 23:28:57**
 Time Off Btm: **2010.08.04 @ 04:02:12**

TEST COMMENT: **F-Strong B-B in 13 min**
FF-Weak building to 5"



PRESSURE SUMMARY

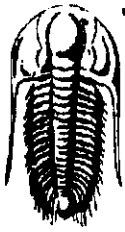
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.48	107.74	Initial Hydro-static
2	41.68	107.13	Open To Flow (1)
16	45.89	107.72	Shut-In(1)
75	1054.91	109.20	End Shut-In(1)
76	57.08	108.96	Open To Flow (2)
122	91.83	110.21	Shut-In(2)
272	1053.99	112.60	End Shut-In(2)
274	1571.65	113.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	Wtr Rw .08 @ 80 = 80000ppm	1.76
10.00	CO	0.14
0.00	120 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

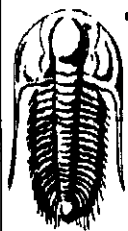
Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039913 **DST#: 2**
Test Start: 2010.08.03 @ 21:54:27

Tool Information

Drill Pipe:	Length: 3271.00 ft	Diameter: 3.80 inches	Volume: 45.88 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3320.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 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			3293.00	
Shut In Tool	5.00			3298.00	
Hydraulic tool	5.00			3303.00	
Jars	5.00			3308.00	
Safety Joint	3.00			3311.00	
Packer	5.00			3316.00	28.00 Bottom Of Top Packer
Packer	4.00			3320.00	
Stubb	1.00			3321.00	
Perforations	1.00			3322.00	
Change Over Sub	1.00			3323.00	
Recorder	0.00	8354	Inside	3323.00	
Recorder	0.00	8520	Outside	3323.00	
Drill Pipe	31.00			3354.00	
Change Over Sub	1.00			3355.00	
Perforations	14.00			3369.00	
Bullnose	3.00			3372.00	52.00 Bottom Packers & Anchor
Total Tool Length:	80.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039913 **DST#: 2**
Test Start: 2010.08.03 @ 21:54:27

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	80000 ppm
Viscosity:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.98 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6100.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
145.00	Wtr Rw .08 @ 80 = 80000ppm	1.761
10.00	CO	0.140
0.00	120 GP	0.000

Total Length: 155.00 ft Total Volume: 1.901 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8354

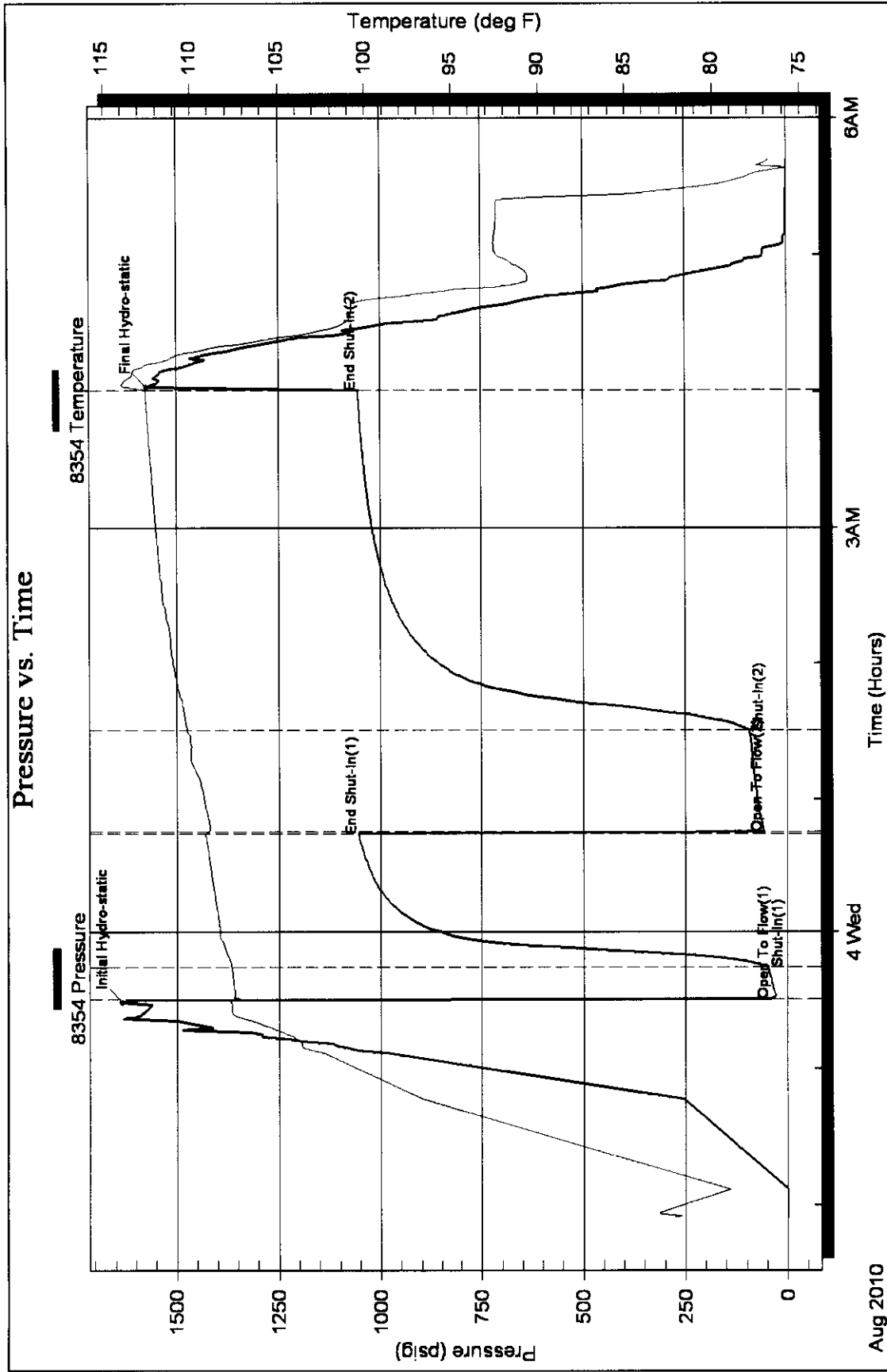
Inside

Sam Gary

10-17-16-Rush-Ks

DST Test Number: 2

Pressure vs. Time



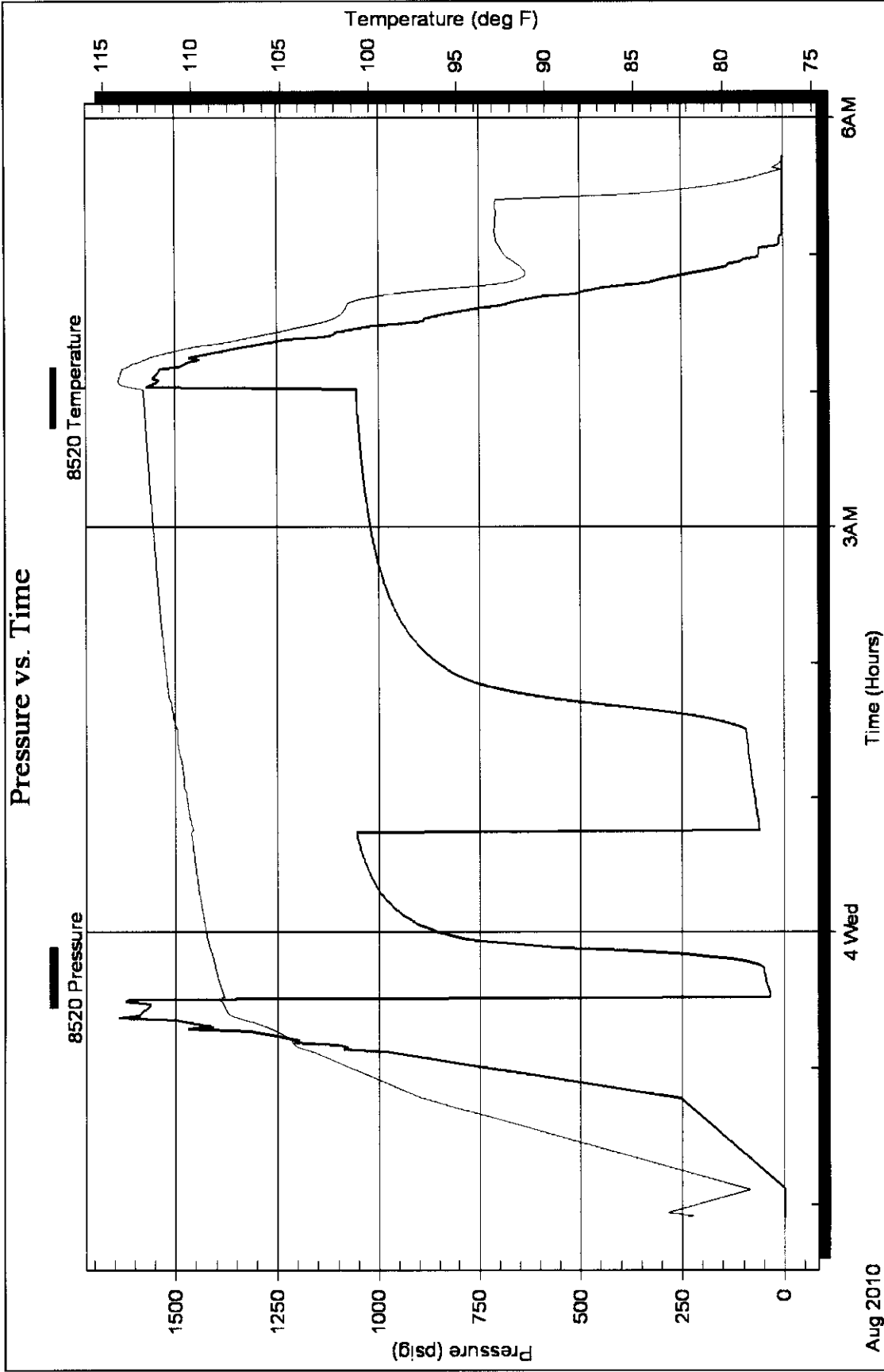
Serial #: 8520

Outside Sam Gary

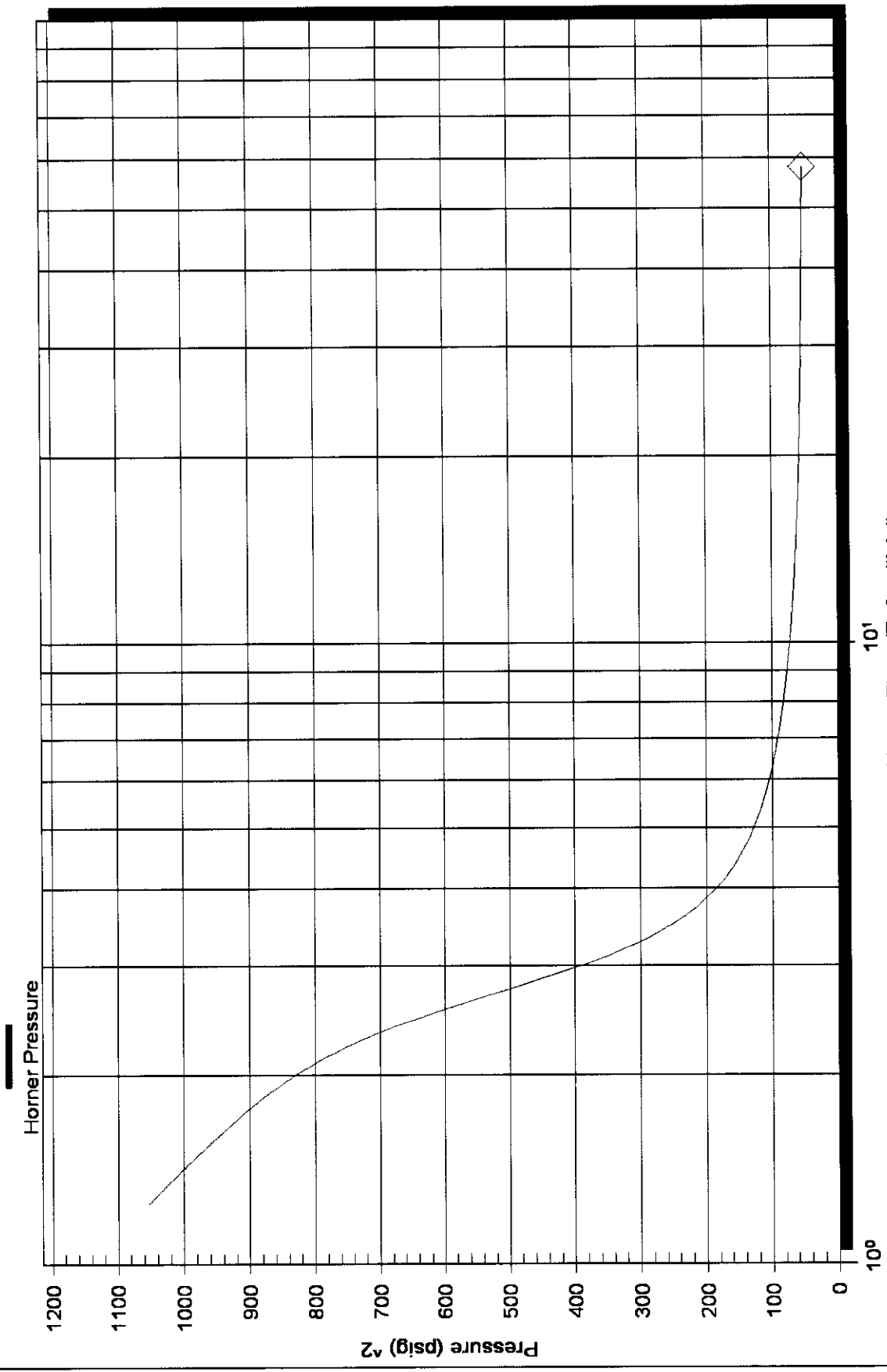
10-17-16-Rush-Ks

DST Test Number: 2

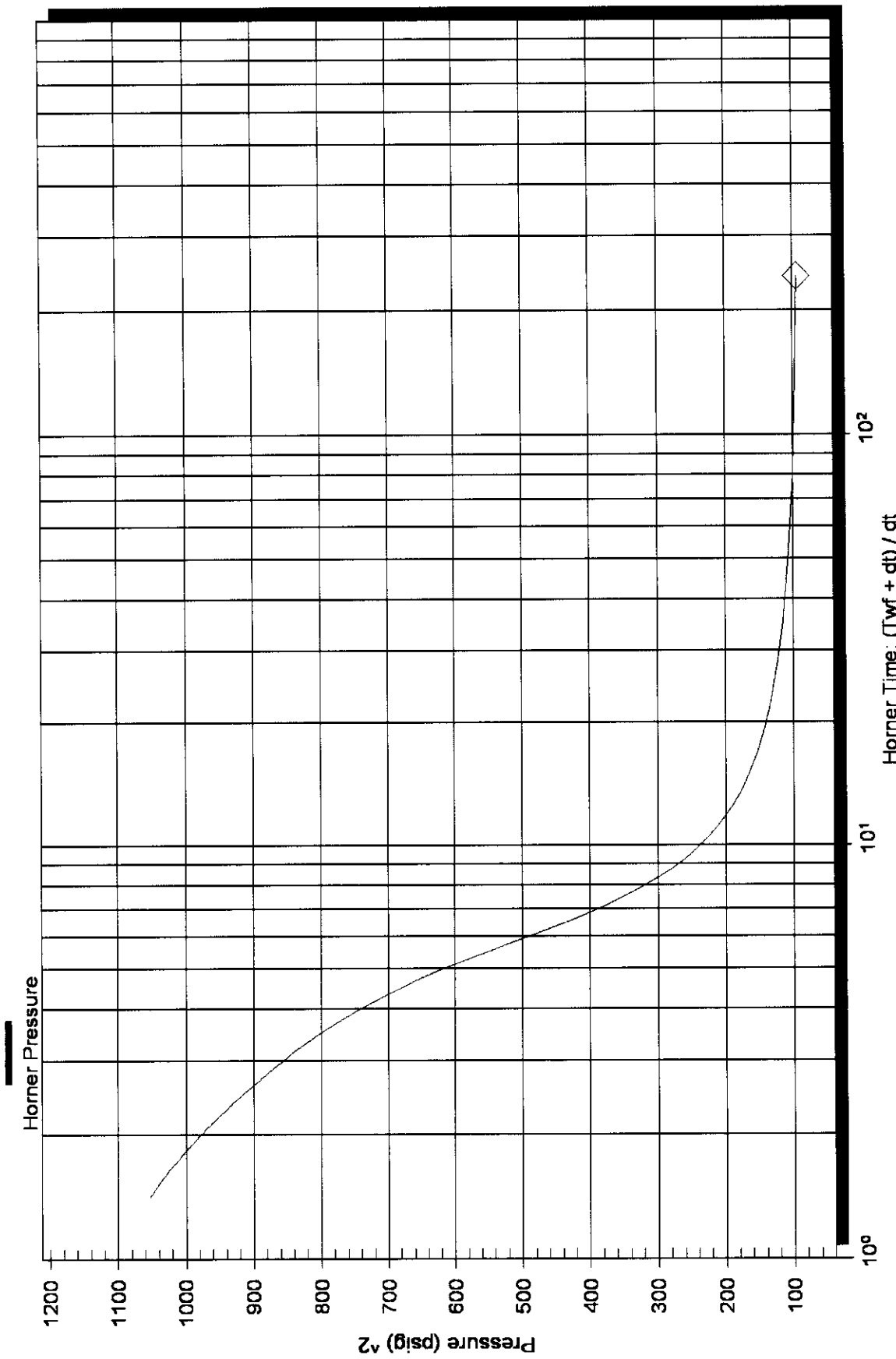
Pressure vs. Time



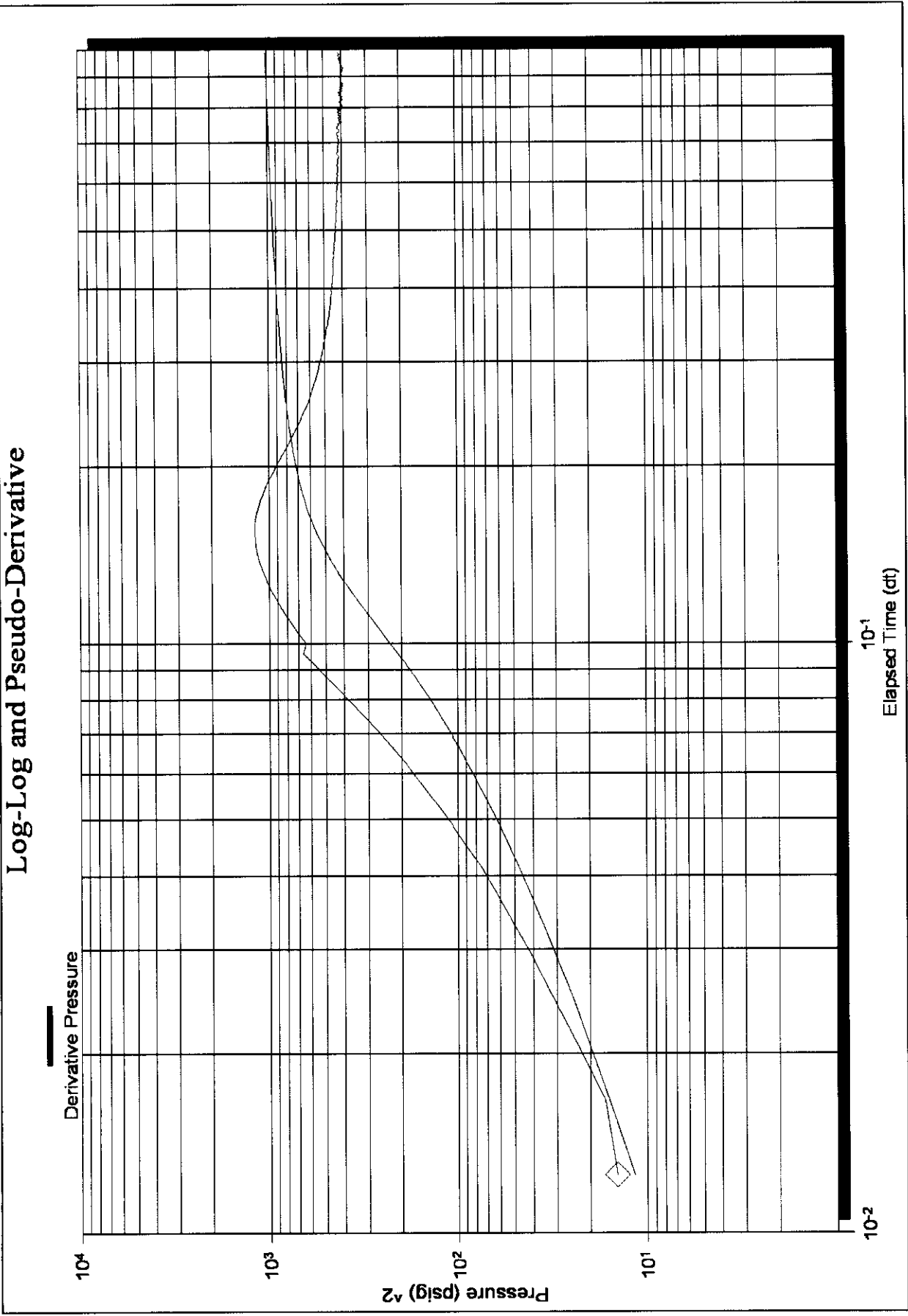
Horner Plot



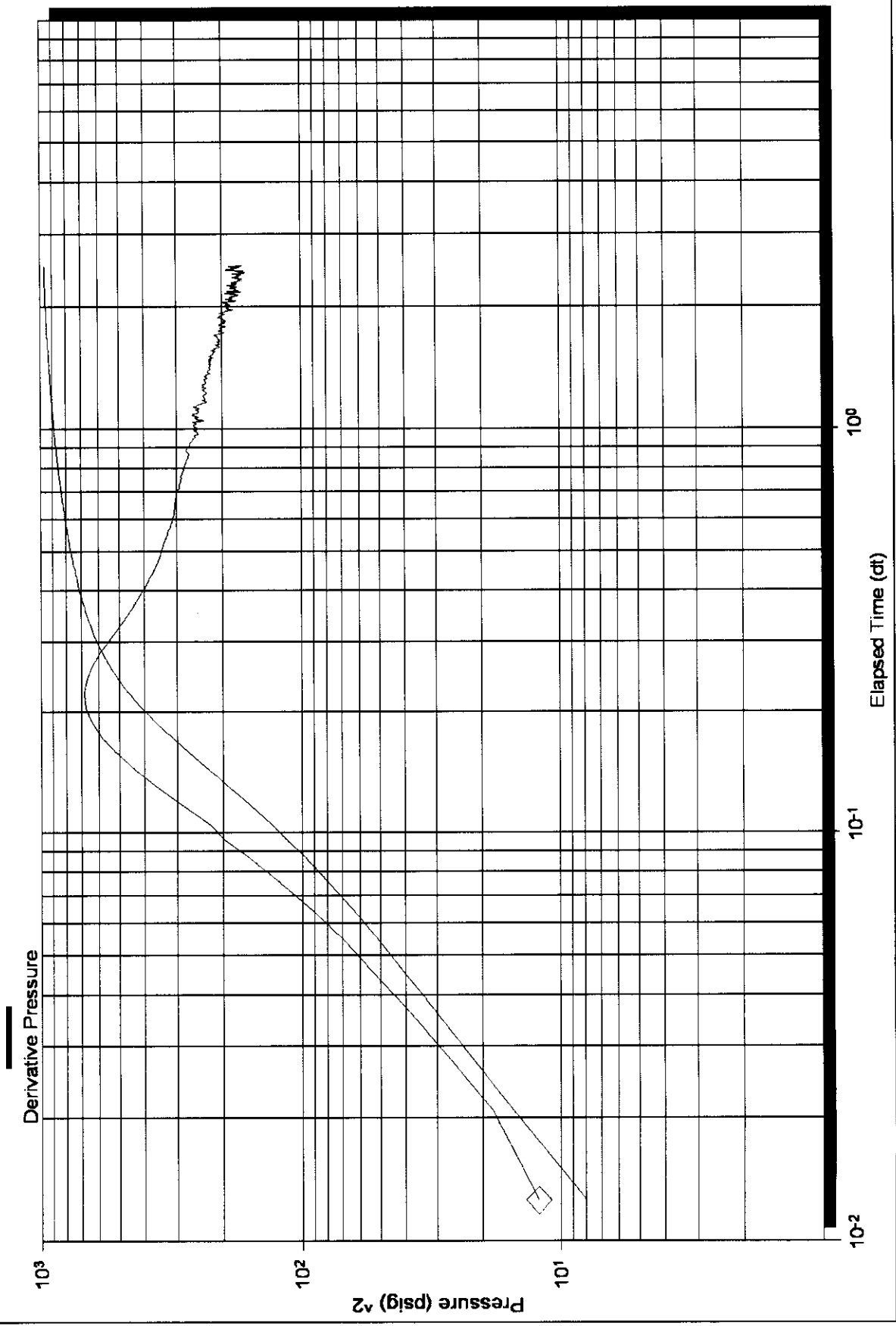
Horner Plot

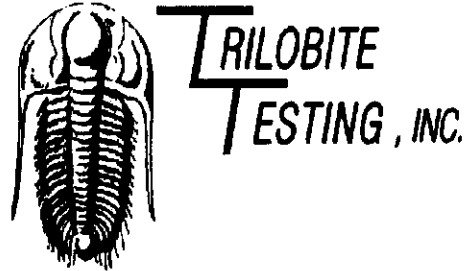


Log-Log and Pseudo-Log-Log



Log-Log and Pseudo-Log-Derivative





DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Tom Fertal

10-17-16-Rush-Ks

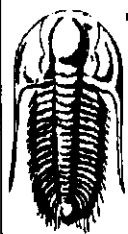
Brack et al # 1-10

Start Date: 2010.08.05 @ 02:50:13

End Date: 2010.08.05 @ 11:18:28

Job Ticket #: 039915 DST #: 4

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

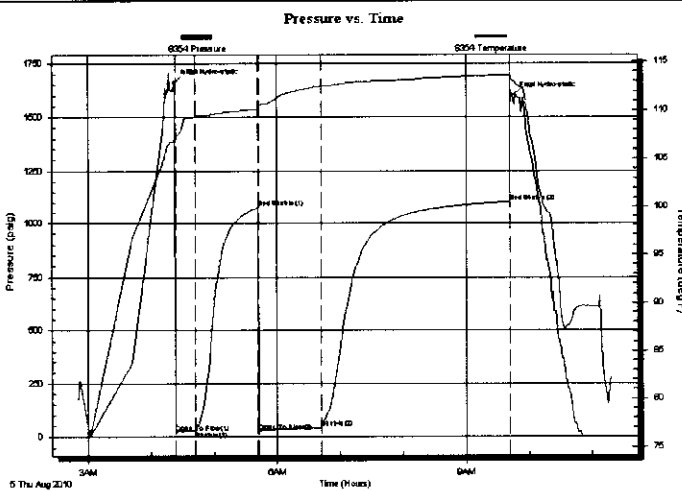
Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039915 **DST#: 4**
Test Start: 2010.08.05 @ 02:50:13

GENERAL INFORMATION:

Formation: **H-I LKC**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 04:23:13
Time Test Ended: 11:18:28
Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **38**
Interval: **3415.00 ft (KB) To 3450.00 ft (KB) (TVD)**
Reference Elevations: **2007.00 ft (KB)**
Total Depth: **3450.00 ft (KB) (TVD)**
1919.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Good**
KB to GR/CF: **88.00 ft**

Serial #: 8354 **Inside**
Press@RunDepth: **42.89 psig @ 3416.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.05** End Date: **2010.08.05** Last Calib.: **2010.08.05**
Start Time: **02:50:14** End Time: **11:18:28** Time On Btm: **2010.08.05 @ 04:22:28**
Time Off Btm: **2010.08.05 @ 09:44:28**

TEST COMMENT: **F-Weak building to 2"**
FF-Strong B-B in 8 min



PRESSURE SUMMARY

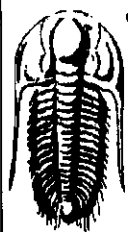
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.83	107.15	Initial Hydro-static
1	18.40	106.87	Open To Flow (1)
20	28.22	109.42	Shut-In(1)
80	1074.96	110.15	End Shut-In(1)
81	23.46	110.50	Open To Flow (2)
140	42.89	112.50	Shut-In(2)
319	1103.45	113.66	End Shut-In(2)
322	1598.23	113.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCGsyO 10%g 70%o 20%m	0.57
15.00	OCGsyM 20%g 30%o 50%m	0.21
0.00	480 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039915 **DST#: 4**
Test Start: 2010.08.05 @ 02:50:13

Tool Information

Drill Pipe:	Length: 3365.00 ft	Diameter: 3.80 inches	Volume: 47.20 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3415.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3388.00	
Shut In Tool	5.00			3393.00	
Hydraulic tool	5.00			3398.00	
Jars	5.00			3403.00	
Safety Joint	3.00			3406.00	
Packer	5.00			3411.00	28.00 Bottom Of Top Packer
Packer	4.00			3415.00	
Stubb	1.00			3416.00	
Recorder	0.00	8354	Inside	3416.00	
Recorder	0.00	8520	Outside	3416.00	
Perforations	31.00			3447.00	
Bullnose	3.00			3450.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039915 **DST#: 4**
Test Start: 2010.08.05 @ 02:50:13

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCGsyO 10%g 70%o 20%m	0.568
15.00	OCGsyM 20%g 30%o 50%m	0.210
0.00	480 GP	0.000

Total Length: 75.00 ft Total Volume: 0.778 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8354

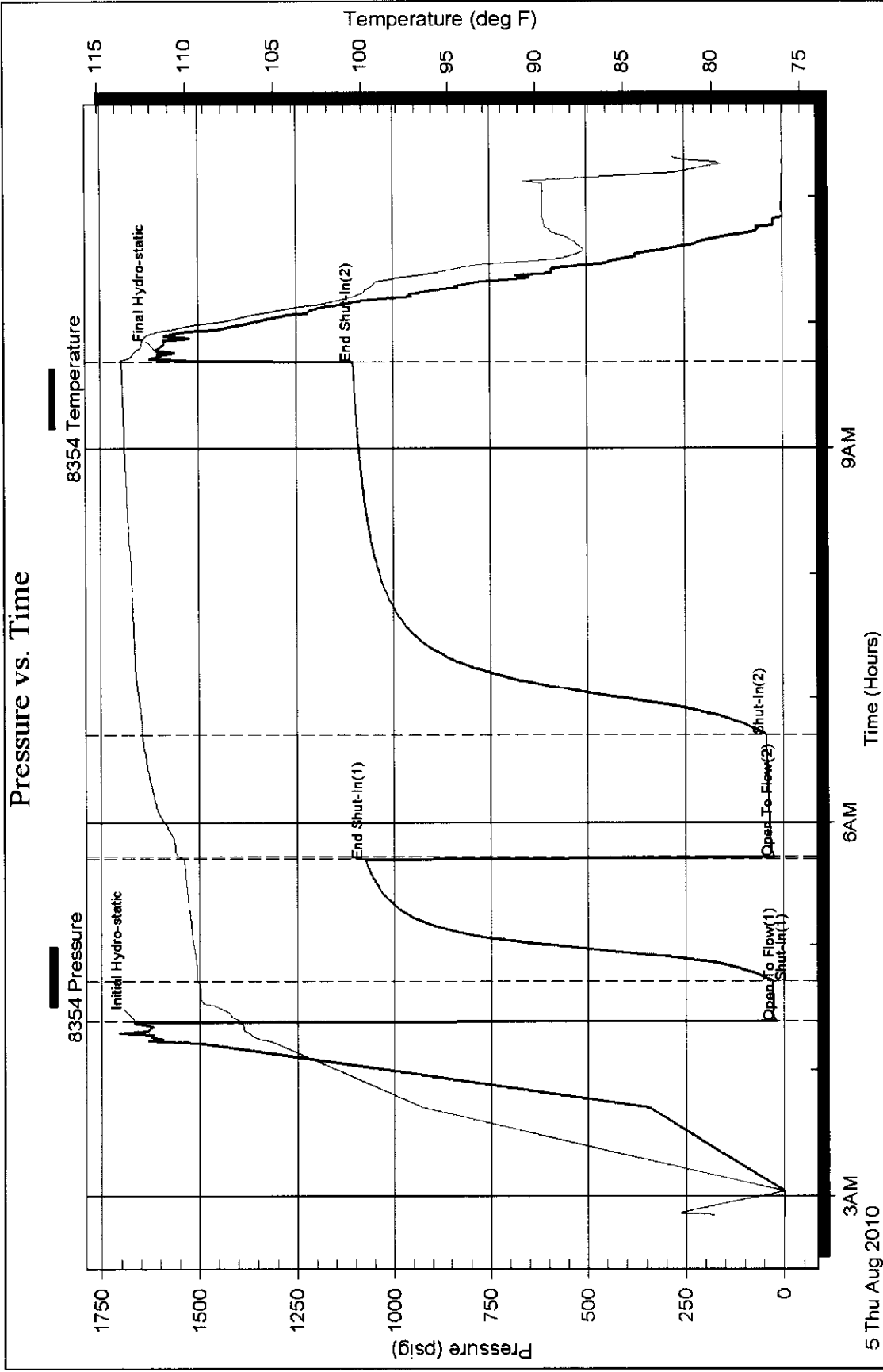
Inside

Sam Gary

10-17-16-Rush-Ks

DST Test Number: 4

Pressure vs. Time



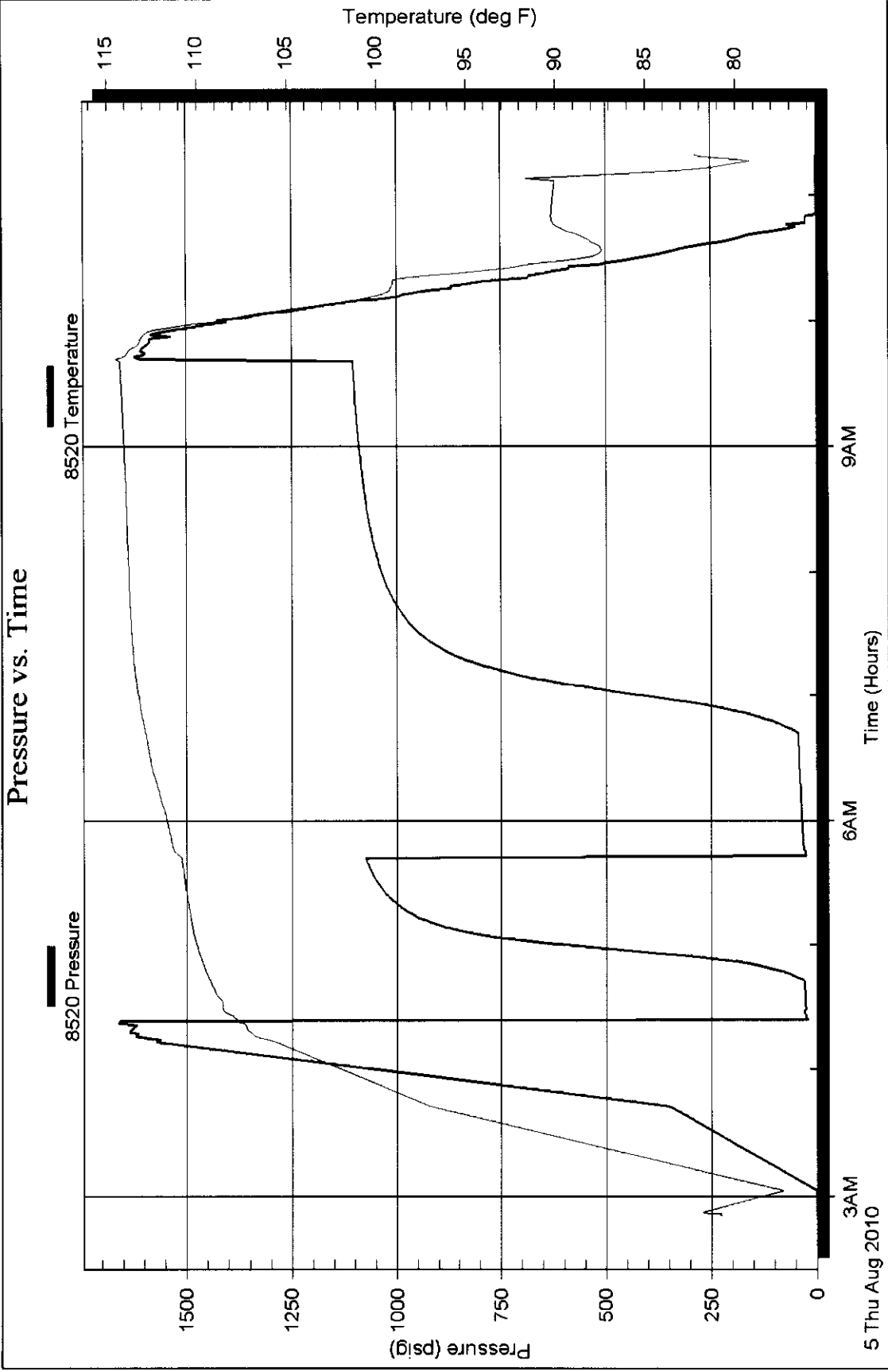
Serial #: 8520

Outside Sam Gary

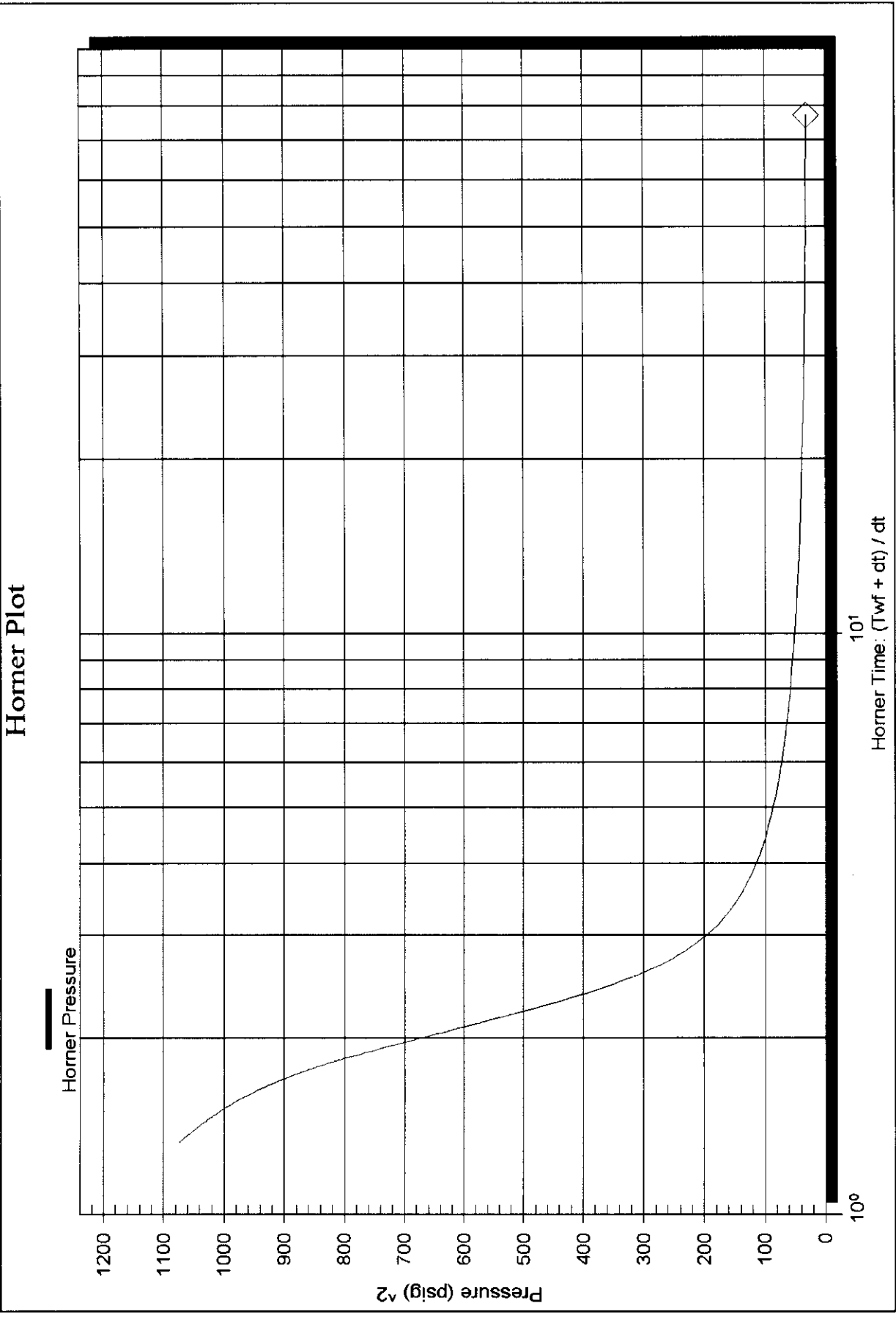
10-17-16-Rush-Ks

DST Test Number: 4

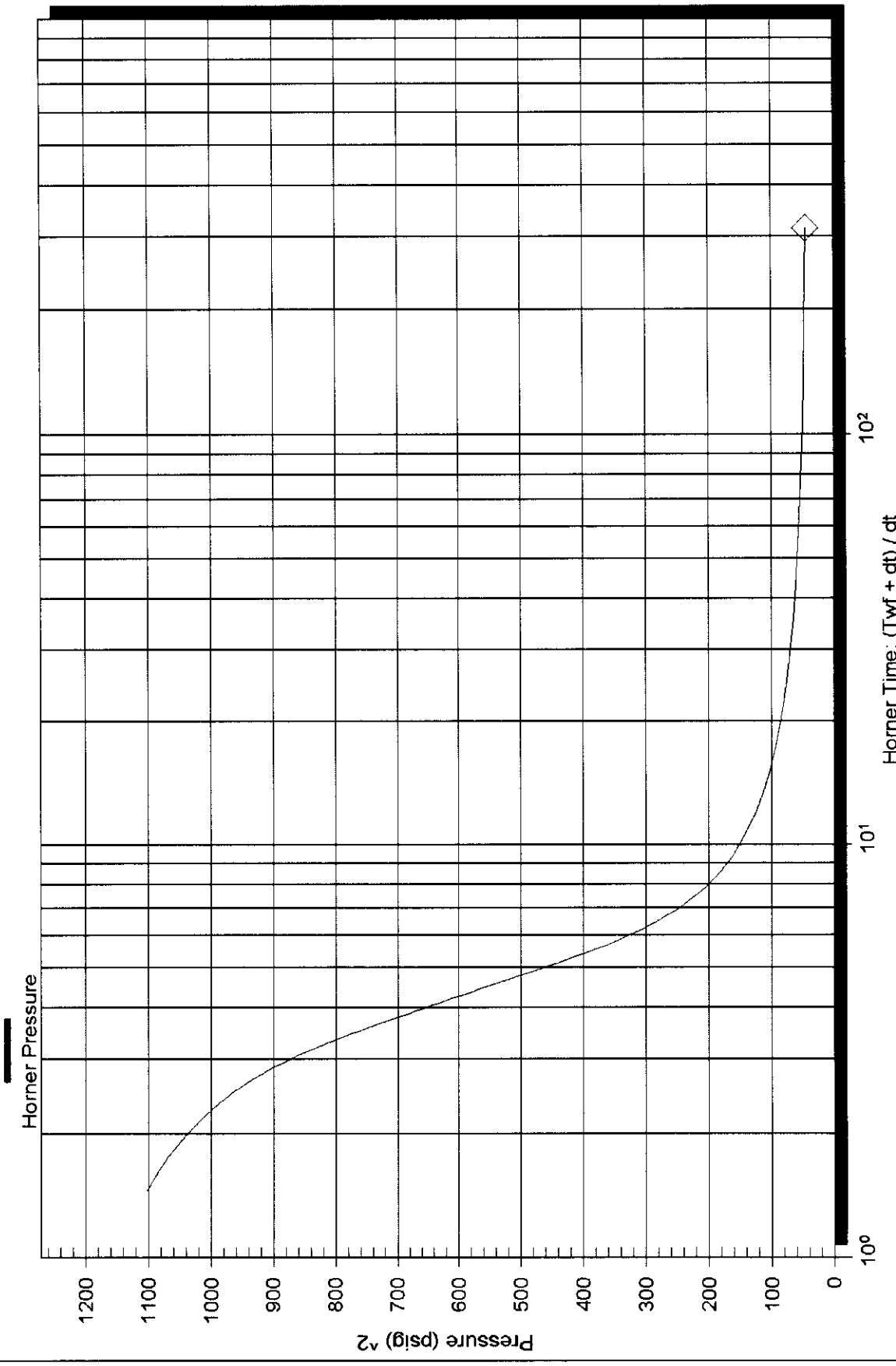
Pressure vs. Time



Horner Plot



Horner Plot

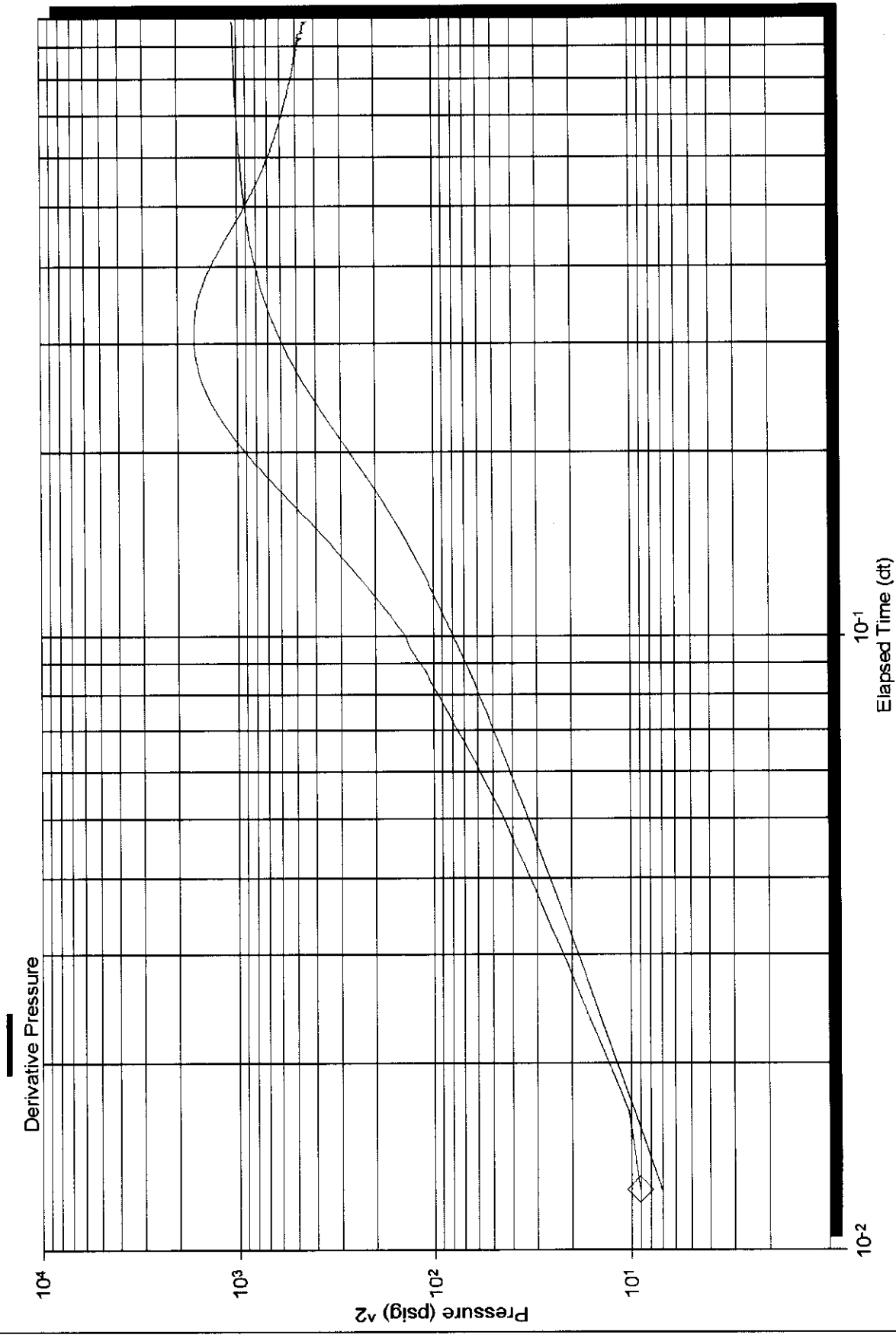


Sam Gary

2010.08.05 @ 02:50:13

10-17-16-Rush-Ks

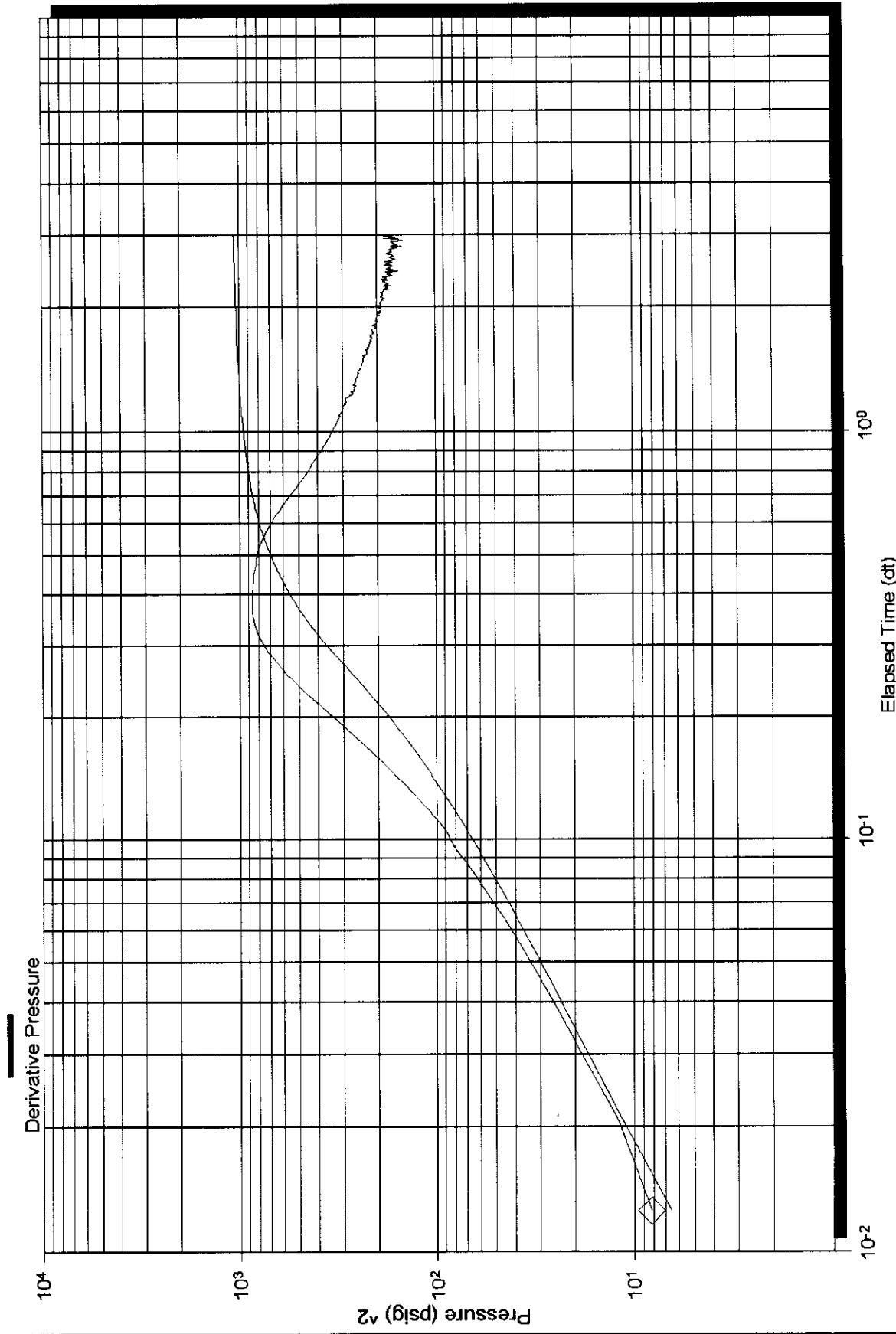
Log-Log and Pseudo-Derivative

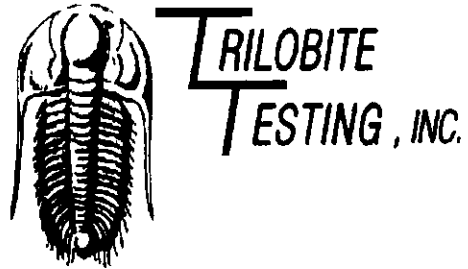


Serial Number: 8354 (Inside)

Flow Cycle: 1

Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Tom Fertal

10-17-16-Rush-Ks

Brack et al # 1-10

Start Date: 2010.08.06 @ 03:50:42

End Date: 2010.08.06 @ 10:33:12

Job Ticket #: 039916 DST #: 5

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary
 1515 Wynkoop Ste 700
 Denver Co 80202
 ATTN: Tom Fertal

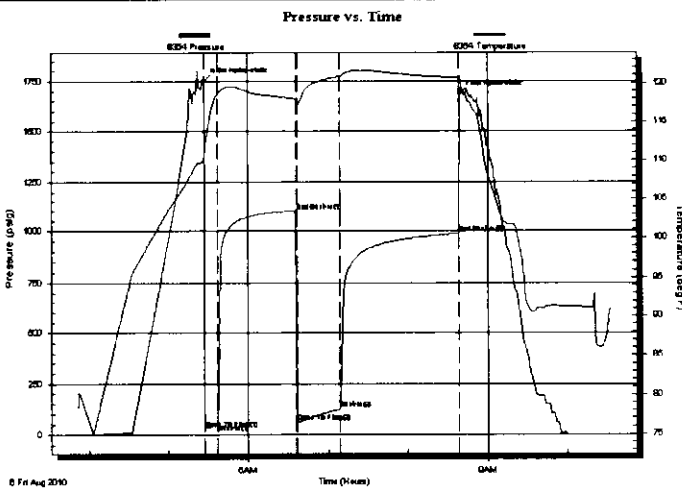
Brack et al # 1-10
10-17-16-Rush-Ks
 Job Ticket: 039916 **DST#: 5**
 Test Start: 2010.08.06 @ 03:50:42

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:27:27
 Time Test Ended: 10:33:12
 Interval: **3556.00 ft (KB) To 3567.00 ft (KB) (TVD)**
 Total Depth: 3567.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 38
 Reference Elevations: 2007.00 ft (KB)
 1919.00 ft (CF)
 KB to GR/CF: 88.00 ft

Serial #: 8354 Inside
 Press@RunDepth: 126.26 psig @ 3564.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.08.06 End Date: 2010.08.06 Last Calib.: 2010.08.06
 Start Time: 03:50:43 End Time: 10:33:12 Time On Btm: 2010.08.06 @ 05:26:57
 Time Off Btm: 2010.08.06 @ 08:38:42

TEST COMMENT: F-Strong B-B in 4 min
 IS-Weak building to 1/4" - died in 20 min
 FF-Strong B-B in 3 min
 FS-Weak building to 1/2" - died in 36 min



PRESSURE SUMMARY

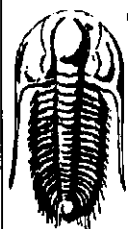
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.03	110.20	Initial Hydro-static
1	31.49	110.24	Open To Flow (1)
10	51.08	118.53	Shut-In(1)
69	1101.83	117.93	End Shut-In(1)
70	60.40	117.34	Open To Flow (2)
102	126.26	120.82	Shut-In(2)
192	988.99	120.61	End Shut-In(2)
192	1686.63	120.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MCGsyO 10%g 70%o 20%m	0.85
280.00	CGsyO 15%g 85%o	3.93
0.00	550 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039916 **DST#: 5**
Test Start: 2010.08.06 @ 03:50:42

Tool Information

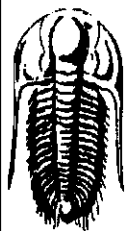
Drill Pipe:	Length: 3519.00 ft	Diameter: 3.80 inches	Volume: 49.36 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3556.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 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			3529.00	
Shut in Tool	5.00			3534.00	
Hydraulic tool	5.00			3539.00	
Jars	5.00			3544.00	
Safety Joint	3.00			3547.00	
Packer	5.00			3552.00	28.00 Bottom Of Top Packer
Packer	4.00			3556.00	
Stubb	1.00			3557.00	
Perforations	7.00			3564.00	
Recorder	0.00	8354	Inside	3564.00	
Recorder	0.00	8520	Outside	3564.00	
Bullnose	3.00			3567.00	11.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Tom Fertal

Brack et al # 1-10
10-17-16-Rush-Ks
Job Ticket: 039916 **DST#: 5**
Test Start: 2010.08.06 @ 03:50:42

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7200.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	MCGsyO 10%g 70%o 20%m	0.849
280.00	CGsyO 15%g 85%o	3.928
0.00	550 GP	0.000

Total Length: 360.00 ft Total Volume: 4.777 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8354

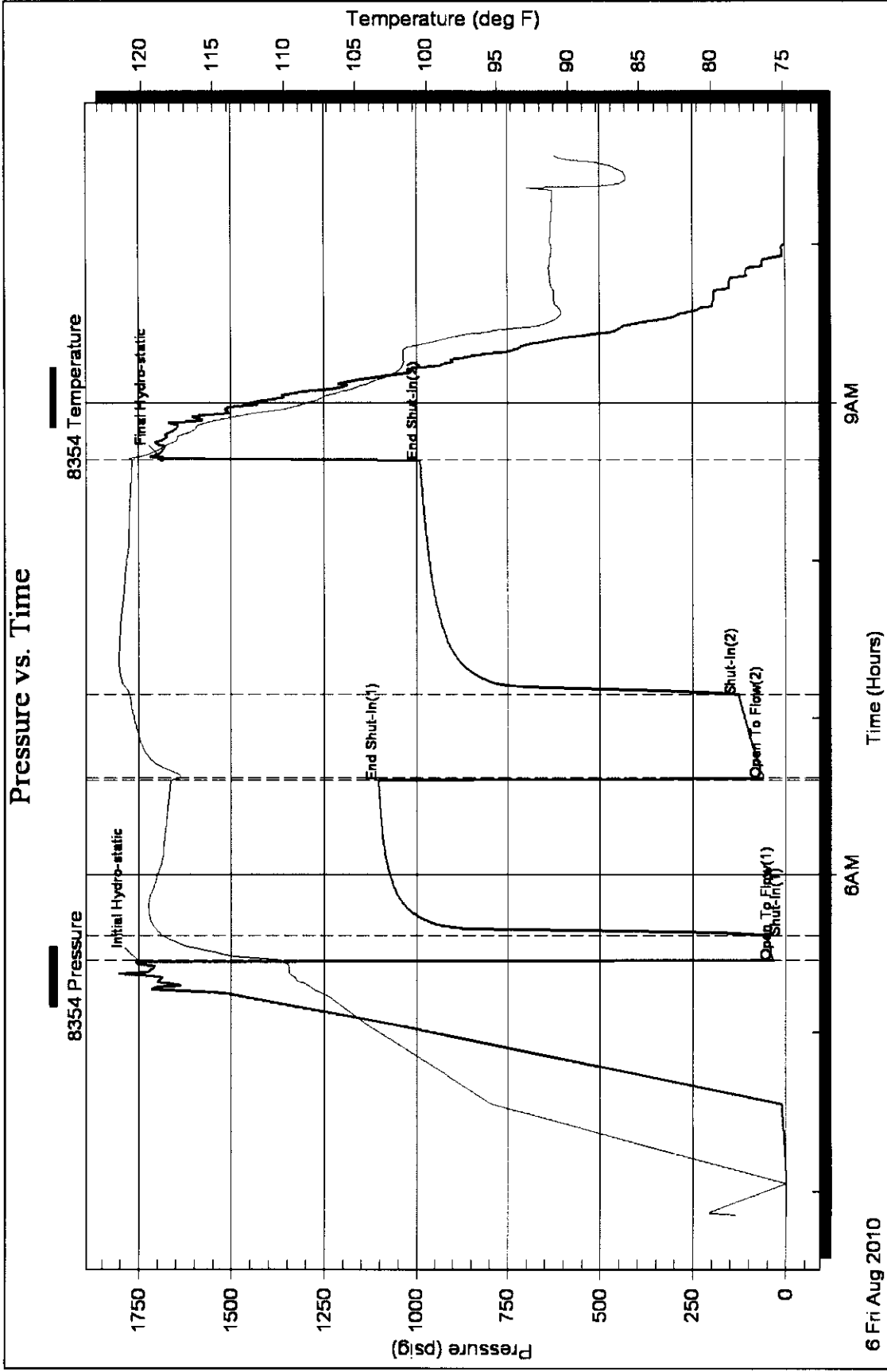
Inside

Sam Gary

10-17-16-Rush-Ks

DST Test Number: 5

Pressure vs. Time

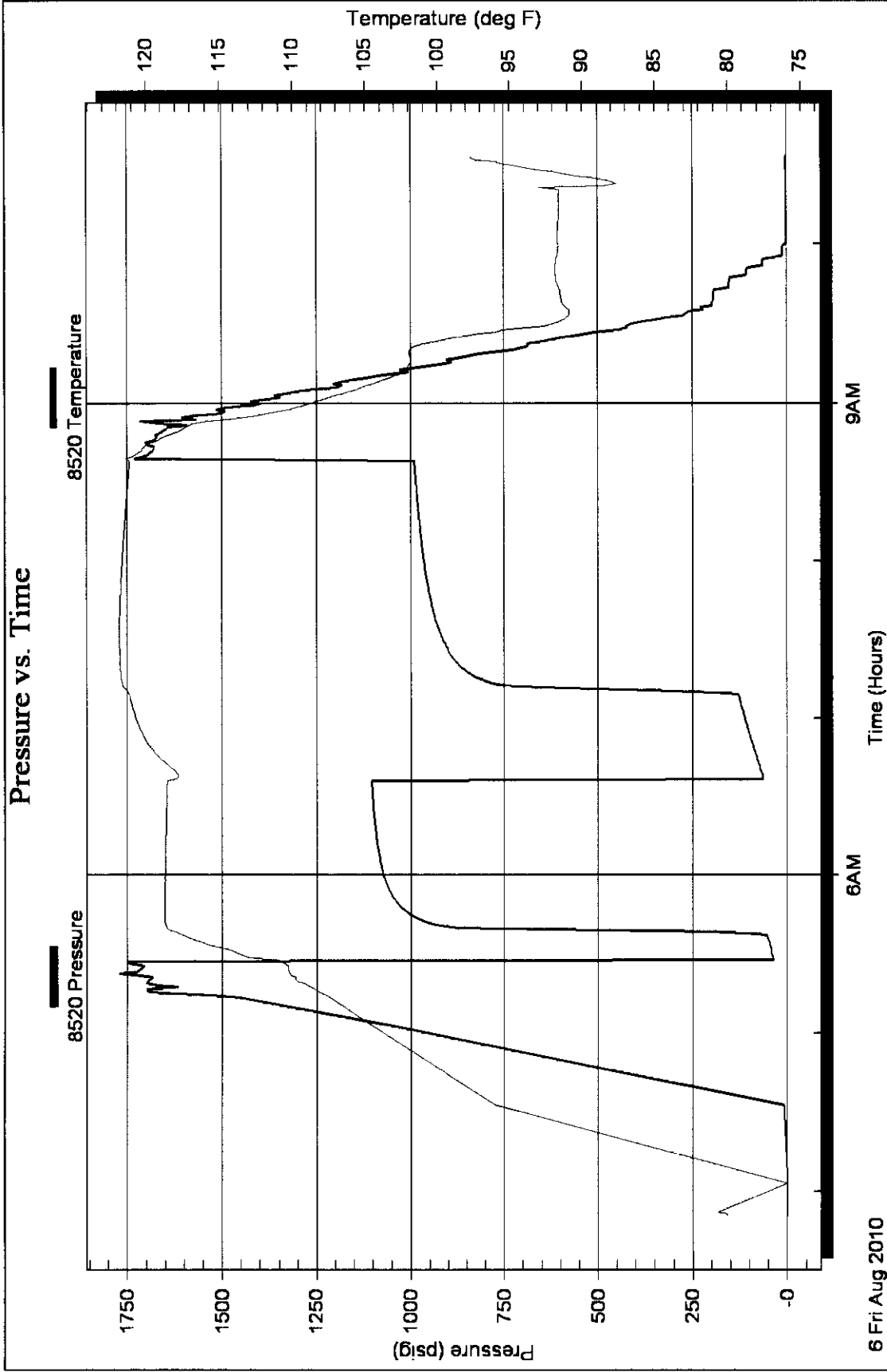


Serial #: 8520

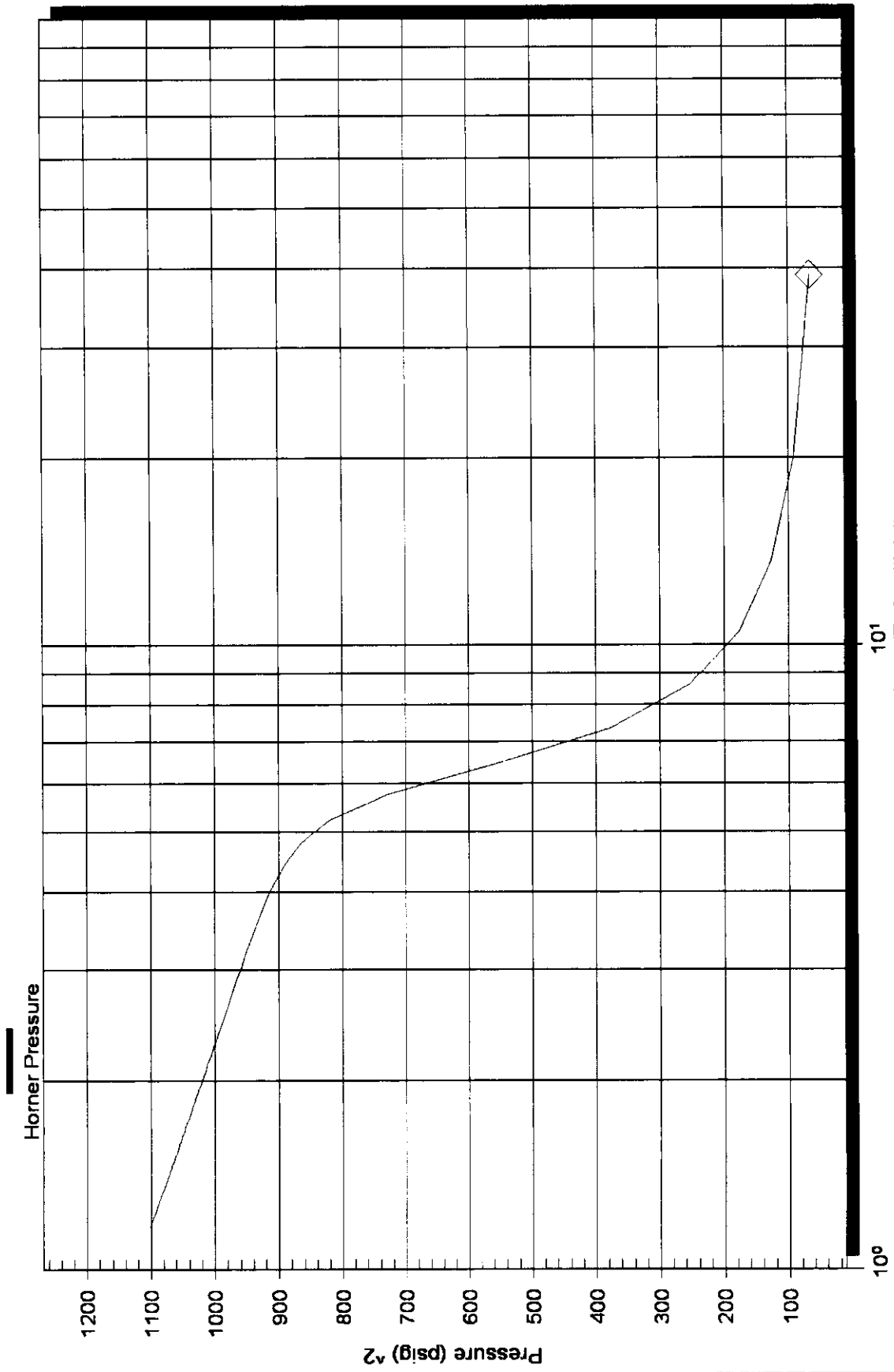
Outside Sam Gary

10-17-16-Rush-Ks

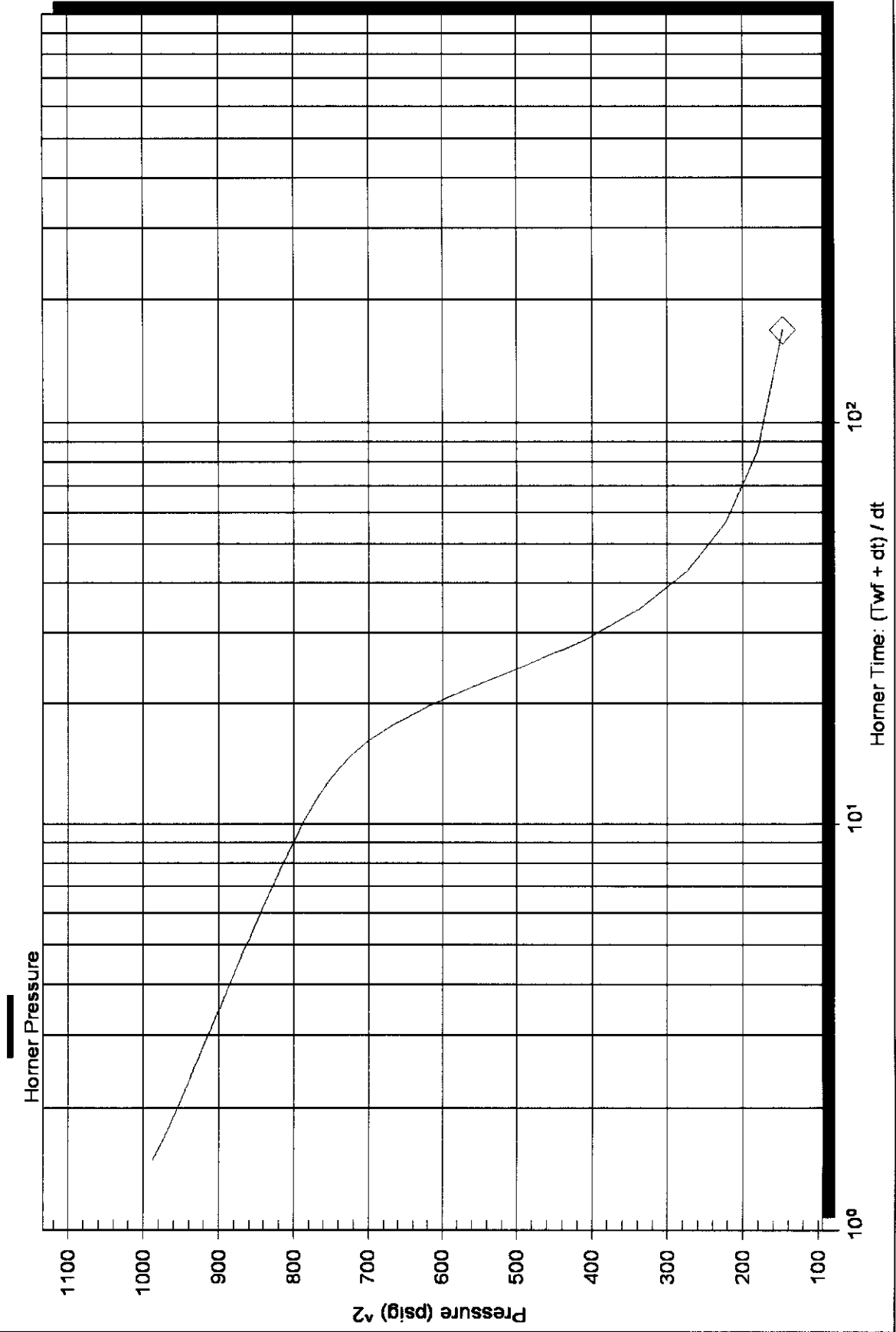
DST Test Number: 5



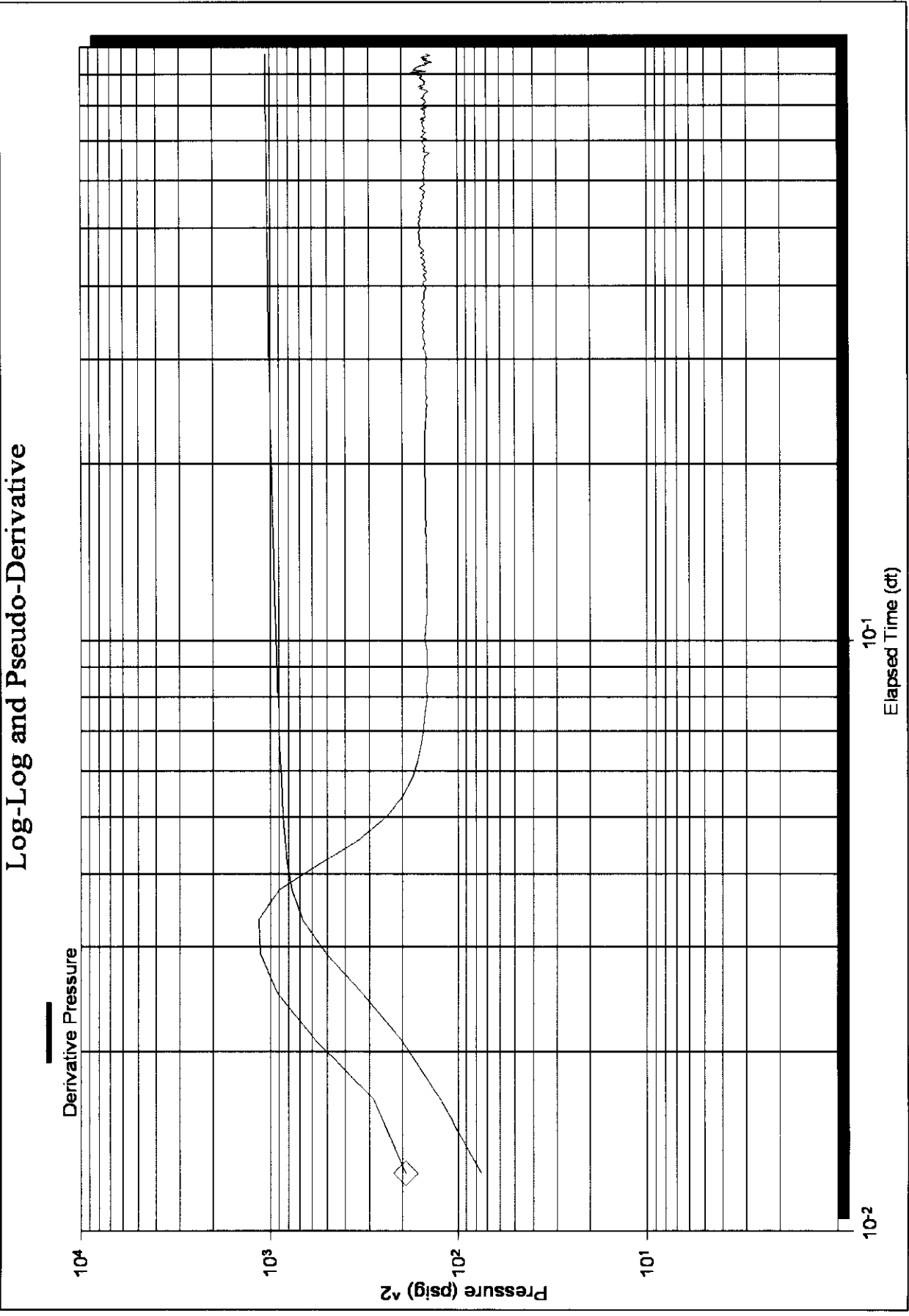
Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative

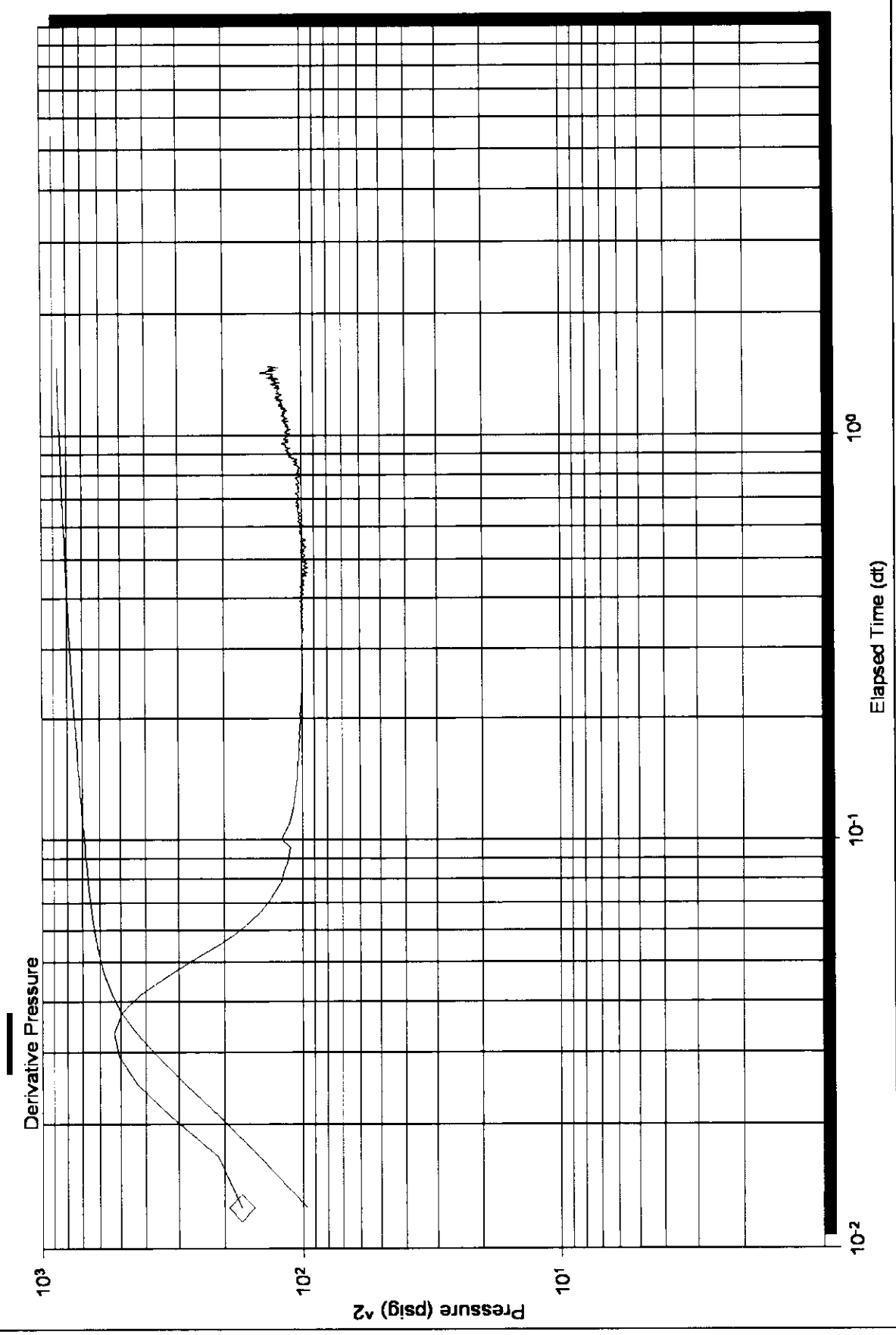


Sam Gary

2010 08 06 @ 03:50:42

10-17-16-Rush-K5

Log-Log and Pseudo-Derivative



Serial Number: 8354 (Inside)

Flow Cycle: 2



QUALITY OILWELL CEMENTING, INC.

740 West Wichita Ave. Russell KS 67665
 Phone: 816-324-1011 Fax: 816-324-1087
 Email: cementing@ruraltel.net
 Print Loc. (in 620) 388 5422

Date: 8/4/2010
 Invoice # 4204

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 LGE
 AFE # _____
 ACCT. # 8200-138
 APPROVED BY [Signature]

Reference:

BRACK BTAC 1-100

Description of Work:

Services / Items Included:	Quantity	Price	Item	Quantity	Price
Surface Job	1	\$0.00			
page-from Job location to Nearest Camp	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	\$455.92			
page-from Job location to Nearest Bulk Plant	32	\$147.22			
Truck Material-Material Service Charge	422	\$664.91			
Baffle Plate Aluminum, 8 5/8"	1	\$77.83			

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

Invoice Terms:

Net 30

Labor: \$548.34

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.

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

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

No. 4204

Date	7-30-10	Sec.	10	Twp.	17	Range	16	County	Rush	State	KS	On Location		Finish	8:00 p.m.
Lease	Brock ETAL			Well No.	1-10			Location	Columbia SW 4s 12w 12N10						
Contractor	D. Sweeney #2							Owner	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.						
Type Job	Surface							Charge To	Sam Coak						
Hole Size	12 1/4			T.D.	1109			Depth	1108						
Csg.	8 5/8 33ft			Depth											
Thg. Size								Street							
Tool								City	State						
Cement Left in Csg.	42.25			Shoe Joint	42.25			The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	67 3/4 BCL			Cement Amount Ordered	400 (Com. 3 1/2 CC 2 1/2 60)						
EQUIPMENT													147 Flowseal		
Pumptrk	5	No.	Cement Helper		E. S.							Common			
Bulktrk	12	No.	Driver		E. S.							Poz. Mix			
Bulktrk		No.	Driver		E. S.							Gel. 3			
JOB SERVICES & REMARKS													Calcium 1/4		
Remarks:													Hulls		
Lat Hole													Salt		
House Hole													Flowseal 100#		
Centralizers													Kol-Seal		
Baskets													Mud CLR 48		
IV or Port Collar	Kumped 108 lines - check at Cement												CFL-117 or CD110 CAF 38		
	8 5/8 Casing on Pattern East Casing												Sand		
	Mix 400SK + Displace Plug												Handling		
	Insert size @ 1065.75												Mileage		
FLOAT EQUIPMENT															
	Cement Circulated?												Guide Shoe		
	Plug lined 600ps												Centralizer 8 5/8 3		
													Baskets 3		
													AFU Inserts		
													Float Shoe		
													Latch Down		
													Baffle Plate		
													Pumptrk Charge Long Surface		
													Mileage 34		
													Tax		
													Discount		
nature	See Invoice												Total Charge		



PAGE 1 of 1	CUST NO 1003682	INVOICE DATE 08/10/2010
INVOICE NUMBER 1718 - 90380561		

Pratt (620) 672-1201
 B SAMUEL GARY JR. & ASSOCIATES
 I 1670 BROADWAY STE 3300
 L DENVER
 L CO US 80202
 T
 O ATTN:

J LEASE NAME Brack ET AL 1-10
 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
40216136	19905		Net - 30 days	09/09/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/07/2010 to 08/07/2010</i>				
0040216136				
171802260A Cement-New Well Casing/Pi 08/07/2010 5 1/2" Longstring				
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 5 1/2" (Blue)	1.00	EA	226.79	226.79
Turbolizer 5 1/2" (Blue)	8.00	EA	69.30	554.38
Unit Mileage Charge-Pickups, Vans & Cars	85.00	HR	2.68	227.58
Heavy Equipment Mileage	170.00	MI	4.41	749.68
Proppant and Bulk Delivery Charges	812.00	MI	1.01	818.47
Depth Charge; 3001-4000'	1.00	HR	1,360.77	1,360.77
Blending & Mixing Service Charge	225.00	MI	0.88	198.44
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

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

RECEIVED
 AUG 27 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		



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 02200 A

DATE _____ TICKET NO _____

DATE OF JOB <u>8-7-10</u> DISTRICT <u>KANSAS</u>		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 <u>Samuel Gary Jr. VASSC, INC</u>		LEASE <u>BRACK ET AL 1-10</u> WELL NO.				
ADDRESS		COUNTY <u>Rush 10-17-16</u> STATE <u>KANSAS</u>				
CITY STATE		SERVICE CREW <u>A. Worth K. Lasby, Edward</u>				
AUTHORIZED BY		JOB TYPE <u>5 1/2 Long String</u> <u>Crew</u>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>8-6-10</u> DATE <u>AM 7:00</u>
<u>38443 P.U</u>	<u>1</u>					ARRIVED AT JOB <u>8-7-10</u> <u>PM 6:55</u>
<u>19903-19905</u>	<u>1</u>					START OPERATION <u>8-7-10</u> <u>AM 8:00</u>
<u>19231-19262</u>	<u>1</u>					FINISH OPERATION <u>8-7-10</u> <u>AM 11:00</u>
						RELEASED <u>8-7-10</u> <u>AM 11:45</u>
						MILES FROM STATION TO WELL <u>85-miles</u>

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
CP103	60/40 Pore		75-SK		\$ 900.00
CP104	50/50 Pore		150-SK		\$ 1,500.00
CC102	CELL FLAKE		37-1b		\$ 136.90
CC109	calcium chloride		252-1b		\$ 264.00
CC113	Calset		750-1b		\$ 562.50
CC129	F/A 323		121-1b		\$ 907.00
CC200	Cement Gel		700-1b		\$ 600.00
CC231	Gilsonite		1125-1b		\$ 753.75
F607	Latch Down Plug & Buffer 5 1/2" Blue		1-CA		\$ 400.00
F1251	Anti Fill Float Shoe 5 1/2" Blue		1-CA		\$ 360.00
F1651	Turbolizer 5 1/2" Blue		8-CA		\$ 880.00
704	CS-16 KCL Sub		4-gal		\$ 140.00
8155	Super flush #		500-gal		\$ 750.00

SUB TOTAL DLS

CHEMICAL / ACID DATA			

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

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

FIELD SERVICE ORDER NO _____

Customer SAMUEL GARY JOSEPH		Lease No.		Date 8-7-10	
Lease CRACK ET AL		Well # H-1-10			
Field Order # 02260A	Station Pratt KS	Casing " 5 7/8	Depth 3673.15	County Rush	State Kansas
Type Job 5/8" long string		Formation C.W. 10 3675		Legal Description 10-19-16	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 7/8	Tubing Size	Shots/Ft	12 - BBL	Acid	Super Flush	RATE	PRESS	ISIP
Depth 3673.15	Depth	From	To 5 BBL	Pre Pad	56 SPA-P	Max		5 Min.
Volume 970	Volume	From	To 25	Pad	50/50	Min	60/40 P2 @ 13.8"	10 Min.
Max Press 1500	Max Press	From	To 150	Frac	50/50	Avg		15 Min.
Well Connection F.C.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 3673.15	Packer Depth	From	To	Flush	50/50 KCL	Gas Volume		Total Load

Customer Representative Kelly Beaman	Station Manager Scotty	Treater Allan E. F. [unclear]
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:55 AM					on loc. Discuss Safety, Safety, Plans, Rig on bottom
8:00					start out of hole w/ bit out of hole, lay down Kelly, rig up to run 5/8" casing 15.5'
2:00 PM					Start casing shoe joint 2674' w/ F.S. & L.D. Buffer in collar. depth 1-3-5-7-9-11-13-15'
					Try bottom in 3675' Pick up to 3673.15' & run w/ Pipe + Bottom Pipe
00	200'		12	5	Pump 12 BBL super flush Pump 20 BBL
			5	5	Pump 5 BBL H ₂ O ahead of super flush
			9	5	9 BBL 60/40 P2 SCORPER 12 H ₂ O
			41		41-BBL 50/50 for @ 13.8"/gal Finish mix washout Pump & Line
15	400'			5 1/2	Drop L.D. Plug start Disg
				5	Caught L.D. Disg w/ 5 BBL out
30	1500'		27	5 1/2	Plug closed
	0"				Release PSI 0"
					Plug R.H. w/ 2000 lbs 60/40 P2
					Plug. M.H. w/ 2000 lbs 60/40 P2
75					Impact & React. up. Job complete