

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: GARY-WILLIAMS ENERGY CORPORATION

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>07/03/2010</u>	<u>07/11/2010</u>	<u>07/30/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25436-00-00
Spot Description: _____
NW SW NW NW Sec. 19 Twp. 17 S. R. 15 East West
830 Feet from North / South Line of Section
270 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barton
Lease Name: STOS & STOS Well #: 1-19
Field Name: WILDCAT
Producing Formation: ARBUCKLE
Elevation: Ground: 2017 Kelly Bushing: 2027
Total Depth: 3773 Plug Back Total Depth: 3750
Amount of Surface Pipe Set and Cemented at: 1112 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: 57000 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: 10/29/2010
 Confidential Release Date: 10/28/2012
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 11/01/2010

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: STOS & STOS Well #: 1-19

Sec. 19 Twp. 17 S. R. 15 East West County: Barton

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 (Attach Additional Sheets) Samples Sent to Geological Survey Cores Taken Electric Log Run Electric Log Submitted Electronically (If no, Submit Copy) List All E. Logs Run: Attached

CASING RECORD Table with columns: Purpose of String, Size Hole Drilled, Size Casing Set (In O.D.), Weight Lbs. / Ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives.

ADDITIONAL CEMENTING / SQUEEZE RECORD Table with columns: Purpose, Depth Top Bottom, Type of Cement, # Sacks Used, Type and Percent Additives.

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

TUBING RECORD: Size: 2-7/8" Set At: 3744 Packer At: Liner Run: Yes No Date of First, Resumed Production, SWD or ENHR: 07/30/2010 Producing Method: Flowing Pumping Gas Lift Other (Explain) Estimated Production Per 24 Hours Oil Bbls. 20 Gas Mcf Water Bbls. 4 Gas-Oil Ratio Gravity

DISPOSITION OF GAS: Vented Sold Used on Lease METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) PRODUCTION INTERVAL: 3592'-3599' OA

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	STOS & STOS 1-19
Doc ID	1046236

All Electric Logs Run

COMPACT PHOTO DENSIT COMPENSATED NEUTRON DENSITY LOG
ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG
COMPENSATED SONIC W/ INTEGRATED TRANSIT TIMES LOG
MICRO-RESISTIVITY LOG
SECTOR BOND/ GAMMA RAY CCL LOG



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

October 29, 2010

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

Re: ACO1
API 15-009-25436-00-00
STOS & STOS 1-19
NW/4 Sec.19-17S-15W
Barton 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.

Respectfully,
CLAYTON CAMOZZI



1007-AP-641

QUALITY OILWELL CEMENTING, INC.

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

Date: 7/7/2010
 Invoice # 4161

P.O.#:

Due Date: 8/7/2010

Division: Russell

Invoice

Contact:

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

Reference:

STOS & STOS 1-19

Description of Work:

SURFACE JOB

Services / Items Included:

Item	Quantity
Surface Job	1
Pump Truck Mileage-from Job location to Nearest Camp	30
Premium Gel (Bentonite)	8
Flo Seal	100
Common-Class A	400
Calcium Chloride	14
Bulk Truck Mileage-from Job location to Nearest Bulk Plant	30
Bulk Truck Material-Material Service Charge	422
Baffle Plate Aluminum, 8 5/8"	1

Item	Quantity
8 5/8" Top Rubber Plug	1
8 5/8" Centralizer	3
8 5/8" Basket	3

Quoted by: Dave Funk

SubTotal: \$ 8,594.20

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,289.13)

Total: \$ 7,305.07

Tax: \$ 264.98

\$ 7,570.05

Applied Payments:

Balance Due: \$ 7,570.05

Invoice Terms:

Net 30

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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JUL 13 2010

DRLG COMP W/O LOE

AFE #

ACCT #

APPROVED BY

8200-138

QUALITY OILWELL CEMENTING, INC.

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

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

No. 4161

Date	7-4-10	Sec.	19	Twp.	17	Range	13	County	Butte	State	KI	On Location		Finish	8:30 AM
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Lease	Start Stos	Well No.	1-19	Location	OTIS 1 E 17 UN
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Contractor	Val Duly Rly b	Owner	To Quality Oilwell Cementing, Inc.
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Type Job	Long Surface	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
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Hole Size	12 1/4	T.D.	1114
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Csg.	8 5/8	Depth	1113	Charge To	Sam Gary Jr & Associates
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Tbg. Size		Depth		Street	
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fool		Depth		City		State	
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Cement Left in Csg.	42'	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.		
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Meas Line	234	Displace	68.24	Cement Amount Ordered	400 class A 3% CC 2% gel
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EQUIPMENT			1/4 flow seal per r/c
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Pumptrk	5	No.	Cementor	Driver	4	Common	
---------	---	-----	----------	--------	---	--------	--

Bulktrk	13	No.	Driver	Jason	4	Poz. Mix	
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Bulktrk		No.	Driver			Gel.	8
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JOB SERVICES & REMARKS			Calcium	14
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Remarks:		Hulls	
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Lat Hole		Salt	
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House Hole		Flowseal	100#
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Centralizers		Kol-Seal	
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Baskets		Mud CLR 48	
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W or Port Collar		CFL-117 or CD110 CAF 38	
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Surface Ran to TD Cir		Sand	
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For 15 min pumped 12 BBL		Handling	422
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H2O In front of cement		Mileage	
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Mixed 400#		FLOAT EQUIPMENT	
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		Guide Shoe	
--	--	------------	--

		Centralizer	3
--	--	-------------	---

		Baskets	3
--	--	---------	---

		AFU Inserts	1 Battle plate
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		Float Shoe	
--	--	------------	--

		Latch Down	
--	--	------------	--

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		Pumptrk Charge	Long Surface
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		Mileage	30
--	--	---------	----

		Tax	
--	--	-----	--

		Discount	
--	--	----------	--

		Total Charge	
--	--	--------------	--

Signature	Randy D. Marks		
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Thanks



PAGE 1 of 1	CUST NO 1003682	INVOICE DATE 07/13/2010
INVOICE NUMBER 1718 - 90358958		

Pratt (520) 672-1201
 B SAMUEL GARY JR. & ASSOCIATES
 I PO Box: 448
 L RUSSELL
 L KS US 67665
 T
 O ATTN:

J LEASE NAME Stos & Stos 1-19
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40205150	27463		Net - 30 days	08/12/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 07/12/2010 to 07/12/2010				
0040205150				
171801991A Cement-New Well Casing/Pi 07/12/2010 CNW-5 1/2" Longstring				
60/40 POZ	75.00	EA	7.56	566.98 T
50/50 POZ	125.00	EA	6.93	866.20 T
Cello-flake	31.00	EA	2.33	72.26 T
Calcium Chloride	210.00	EA	0.66	138.91 T
Cal-Set	625.00	EA	0.47	295.29 T
FLA-322	104.00	EA	4.72	491.37 T
Cement Gel	210.00	EA	0.16	33.07 T
Gilsonite	1,000.00	EA	0.42	422.07 T
CS-1L, KCI Substitute	4.00	EA	22.05	88.19 T
Super Flush II	500.00	EA	0.96	481.92 T
Latch Down Plug & Baffle	1.00	EA	251.98	251.98
Auto Fill Float Shoe	1.00	EA	226.79	226.79
Turbolizer	8.00	EA	69.30	554.37
Heavy Equipment Mileage	170.00	MI	4.41	749.65
Proppant & Bulk Delivery Charges	723.00	MI	1.01	728.74
Blending & Mixing Service Charge	200.00	MI	0.88	176.39
Unit Mileage Charge-Pickups, Vans & Cars	85.00	HR	2.68	227.57
Depth Charge; 3001'-4000'	1.00	HR	1,360.73	1,360.73
Casing Swivel Rental	1.00	EA	125.99	125.99
Plug Container Utilization Charge	1.00	EA	157.49	157.49
Service Supervisor	1.00	HR	110.24	110.24

DRLG COMP W/O LOE

AFE # _____
 ACCT # 4200. 135
 APPROVED BY _____

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,126.18
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	252.31
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	8,378.49
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 1991 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>7-12-10</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. & ASSOC. INC.</u>		LEASE <u>Stos - Stos</u> 1-19 WELL NO.				
ADDRESS		COUNTY <u>Barlow</u> 19-17-15 STATE <u>KANSAS</u>				
CITY STATE		SERVICE CREW <u>A. Worth, J. Anthony, M. McNeil</u>				
AUTHORIZED BY		JOB TYPE <u>5/2 L.S.</u> <u>6260</u>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>7-12-10</u> DATE <u>AM</u> TIME <u>9:30</u>
<u>28443 PA</u>	<u>1</u>					ARRIVED AT JOB <u>7-12-10</u> <u>AM</u> <u>1:00</u>
<u>27463 RT</u>	<u>1</u>					START OPERATION <u>7-12-10</u> <u>AM</u> <u>2:30</u>
<u>9526-19360</u>	<u>1</u>					FINISH OPERATION <u>7-12-10</u> <u>AM</u> <u>7:30</u>
						RELEASED <u>7-12-10</u> <u>AM</u> <u>3:30</u>
						MILES FROM STATION TO WELL <u>2.5 m. 100</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)

EM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>P102</u>	<u>120/40 P02</u>		<u>75.5</u>		<u>\$ 900.00</u>
<u>P104</u>	<u>50/50 P02</u>		<u>125.5</u>		<u>\$ 1325.00</u>
<u>2102</u>	<u>cell flake</u>		<u>21.16</u>		<u>\$ 114.70</u>
<u>2109</u>	<u>calcium chloride</u>		<u>210.14</u>		<u>\$ 220.50</u>
<u>2113</u>	<u>CAI sat</u>		<u>675.16</u>		<u>\$ 462.25</u>
<u>229</u>	<u>FIA 322</u>		<u>184.16</u>		<u>\$ 280.00</u>
<u>204</u>	<u>concrete Gel</u>		<u>310.16</u>		<u>\$ 50.00</u>
<u>201</u>	<u>G. Isom. f s</u>		<u>1000.16</u>		<u>\$ 670.00</u>
<u>P607</u>	<u>Latch down Plug & Baffle 5/2 Blue</u>		<u>1 - ea</u>		<u>\$ 420.00</u>
<u>P1251</u>	<u>Auto FILL Filter Skirt 5/2 Blue</u>		<u>1 - ea</u>		<u>\$ 360.00</u>
<u>P1651</u>	<u>Turbolizer 5/2 Blue</u>		<u>2 - ea</u>		<u>\$ 660.00</u>
<u>204</u>	<u>CS-16 RCL Sub</u>		<u>4 - ea</u>		<u>\$ 140.00</u>
<u>155</u>	<u>Super Flush</u>		<u>500 - gal</u>		<u>\$ 765.00</u>

SUB TOTAL

CHEMICAL / ACID DATA			

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

TOTAL

VICE REPRESENTATIVE Allen Worth

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY

[Signature]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

3 SERVICE ORDER NO.



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 1992 A

DATE _____ TICKET NO _____

DATE OF JOB <u>7-12-10</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. Assoc. Inc</u>		LEASE <u>5+05 +5+05</u> 1-19 WELL NO	
ADDRESS		COUNTY <u>Barton</u> 19-17-10 STATE <u>KANS</u>	
CITY STATE		SERVICE CREW <u>R. Worthy, J. Anthony, M. Miskow</u>	
AUTHORIZED BY		JOB TYPE <u>5 1/2" L.S.</u>	

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>28443</u>	<u>1</u>						<u>7-12-10</u>			
<u>27463</u>	<u>1</u>						<u>7-12-10</u>			<u>1:00</u>
<u>19226-19860</u>	<u>1</u>						<u>7-12-10</u>			<u>6:30</u>
							<u>7-12-10</u>			<u>7:30</u>
							<u>7-12-10</u>			<u>8:30</u>
						MILES FROM STATION TO WELL <u>8.5-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)

EMPRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>100</u>	<u>Unit mileage Chg. Pickup</u>		<u>8.5-m.</u>		<u>4361.25</u>
<u>101</u>	<u>Heavy Equip mileage</u>		<u>170-m.</u>		<u>1190.00</u>
<u>112</u>	<u>Bulk Oil Chg.</u>		<u>723-Tm</u>		<u>1156.00</u>
<u>5004</u>	<u>Depth Chg. 3000-4000</u>		<u>1-4hrs</u>		<u>2160.00</u>
<u>5240</u>	<u>Blending & mixing services chg.</u>		<u>200-SK</u>		<u>280.00</u>
<u>5501</u>	<u>Casing Swivel Rental</u>		<u>1-01</u>		<u>200.00</u>
<u>5504</u>	<u>Pipe Container Util. rental chg.</u>		<u>1-Job</u>		<u>210.00</u>
<u>902</u>	<u>Service Supervisor Direct Strv.</u>		<u>1-01</u>		<u>175.00</u>

SUB TOTAL

CHEMICAL / ACID DATA			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>88126.18</u>

VICE REPRESENTATIVE Allen T. Ward THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

SERVICE ORDER NO

Customer Samuel Gary TR. ASSC	Lease No. 706	Date 7-12-10
Lease Stac & Stac	Well # 1-19	
Field Order # 7141941A	Station PRATT	Casing 5 7/8
		Depth 3772
Type Job 5 7/8" Long string	Formation Carbon	County Darton
		State KS
		Legal Description 19-17-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 7/8	Tubing Size 3 1/2	Shots/Ft 12 Bbl	Acid Super Flush It	RATE	PRESS	ISIP		
Depth 3772	From	To	Pre Pad 25 SK 60/40 PORE	Max	5200	5 Min.		
Volume 125 SK	From	To	Pad 50/50 PORE	Min	1300	10 Min.		
Max Press 2200	From	To	Frac 30 SK 60/40 PORE	Avg	R.H.	15 Min.		
Annulus Vol. 20 SK	From	To	Flush 2% KCL	HHP Used		Annulus Pressure		
Packer Depth 3750	From	To		Gas Volume		Total Load		

Customer Representative Kelly Beaman	Station Manager Scotty	Treater Allan F. Worth
Service Units 22443 27463 19821 19860		
Operator Well Auth Mike McGowan		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
00 pm					on loc. Discuss Safety, Setup, Plan Job
					Rig Laying down Drill Pipe
					Out of Hole, Lay down Kelly Rig up
					To Run 5 7/8" Csg. 15.5" Shoe Jt. 2700'
					w/Float Shoe, + L.O. Baffle in collar
4:5					Start csg. cent. 1-3-5-7-9-11-13-15
4:5					Tag Bottom @ 3273 Pickup 3272
					circ + Rotate
4:5	2000		12	5	Pump 12 Bbls Super Flush It
			3	5	Pump 3 Bbls H ₂ O
			9	6	Mix + Pump 25 SK 60/40 SCRAMBLE @ 1200'
			24	6	Mix + Pump 125 SK 50/50 PORE @ 1300'
					Finish mix without Pump down
10				7	Drop L.O. Pipe + set out Disp.
	3000			5	Caught G.I.T. PST @ 62 Bbls out
11	1522		59 1/4	1 1/2	Pump down
	0				Release PST @ 11
					Plug R.H. w/ 30 SK 60/40 PORE
					Plug w/ 70 SK 60/40 PORE
					washup + Pickup Equip.
10					Job completed.



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

Well Name: STOS-STOS 1-19
Location: SEC 19-17S-15W , Barton co. Kansas
License Number: API 15-009-25436-0000
Spud Date: 07/02/2010
Surface Coordinates: 830 FNL, 270 FWL
Region: Wildcat
Drilling Completed: 07/10/10

Bottom Hole
Coordinates:
Ground Elevation (ft): 2017' K.B. Elevation (ft): 2027'
Logged Interval (ft): 1430 To: 3775' Total Depth (ft): 3775'
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 Wykoop, Ste. # 700
Denver, Colo. 80202
Geo: Clayton Camozzi

GEOLOGIST

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

Circulating Report

START UNMANNED LOGGING UNIT 07/05/2010
START 24 HR MANNED UNIT 07/07/10
CFS 3340' 20,40,60
CTCH 1 HR SHORT TRIP
CTCH 1 HR AFTER SHORT TRIP
CFS 3355' 20,40,60
CFS 3372' 20,40,60
CFS 3418' 20,40,60
CFS 3434' 20,40,60, TOTAL 1.5 HRS
CFS 3472' 20,40,60
CFS 3604' 20,40,60
CFS 3612 20,40,60,
SHORT TRIP 5 STANDS CTCH 1 HR
TOH DST#2
TIH AFTER DST#2 CTCH 1 HR
CFS 3375' {TD} TOTAL 1.5 HRS
TOH FOR LOGS



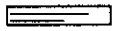

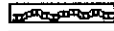


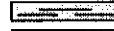
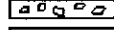
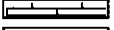
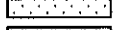
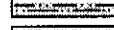
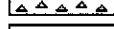


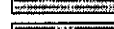

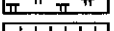



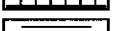



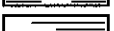




DST's Report

DST#1 3384'-3434' 50' ANCHOR
 IFP: SURFACE BLOW THRU OUT
 ISIP: NO BLOW
 FFP: NO BLOW
 FSIP: NO BLOW
 RECOVERY 10' MUD
 BHT: 112 DEG
 CLORIDES: 0
 IH: 1616
 FIF: 17
 FFF: 19
 ISI: 1075
 SIF: 20
 SFF: 21
 FSI: 1016
 FH: 1606
 TIMES 15,60,10,60

DST's Report

DST#2 3550'-3612'
 ANCHOR: 62'
 IFP WEAK TO STRONG IN 7 MIN
 ISIP NO BLOW BACK
 FFP WEAK TO STRONG IN 15 MIN
 FSIP NO BLOW BACK
 RECOVERY 30' CO, 100' OCM, 186' SOCMW, 248' WATER
 TOTAL RECOVERY 564' BHT 116 DEG GRAVITY 31 CLORIDES 36,000
 IH 1725
 FIF 38
 FFF 79
 ISI 1137
 SIF 95
 SFF 243
 FSI 1138
 FH 1716
 TIMES 10,60,45,135

ROCK TYPES

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

ACCESSORIES

MINERAL

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

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sity

FOSSIL

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

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

STRINGER

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

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- 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

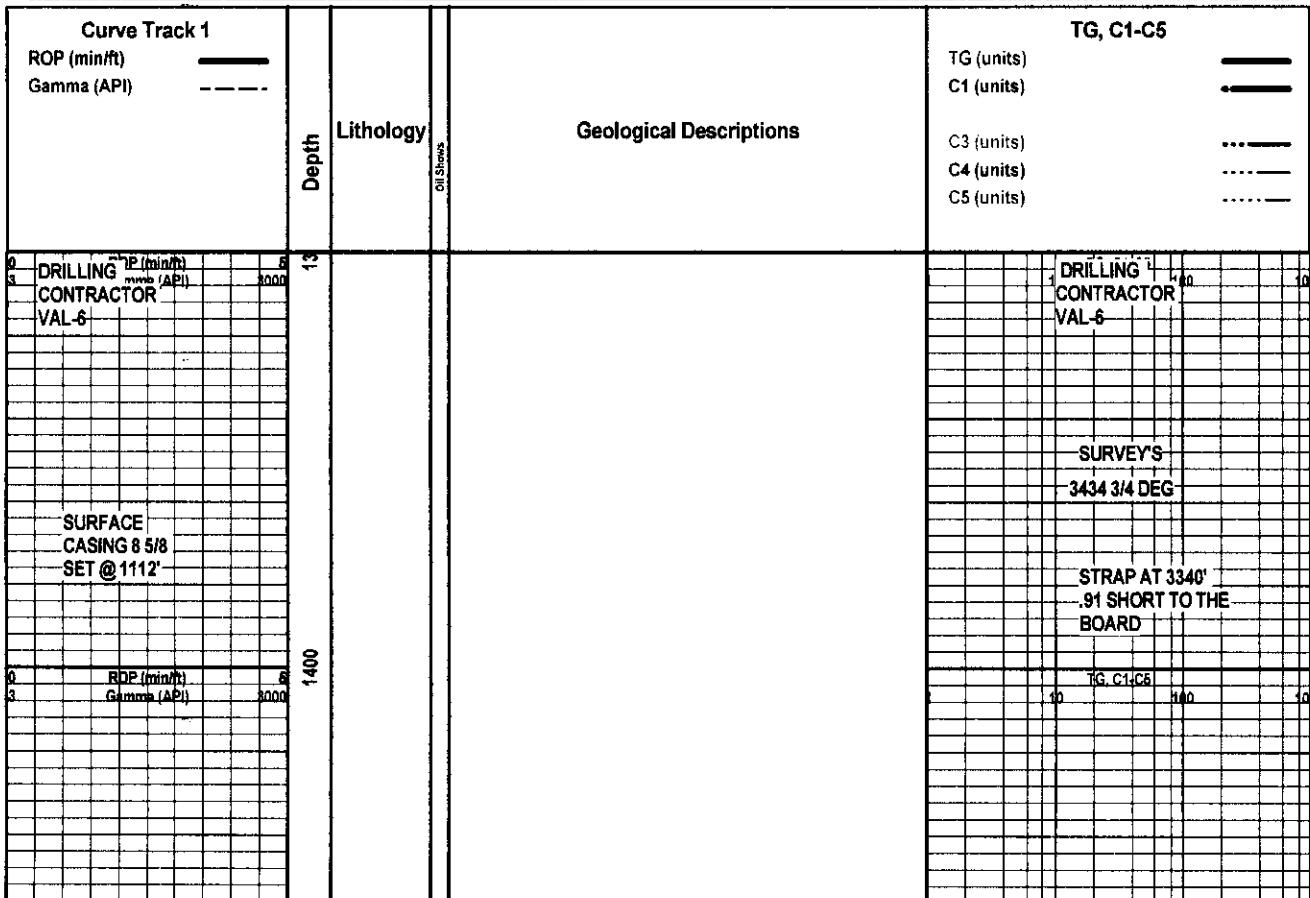
- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS

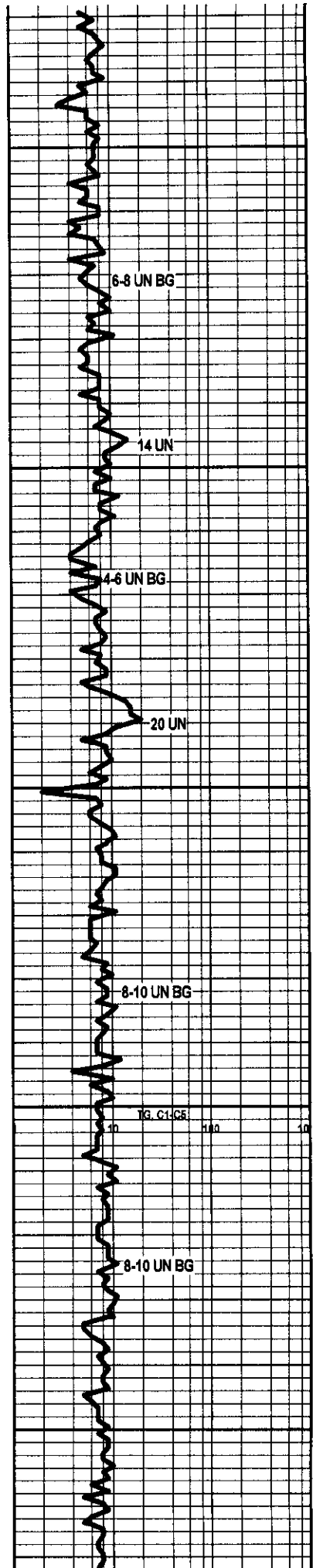
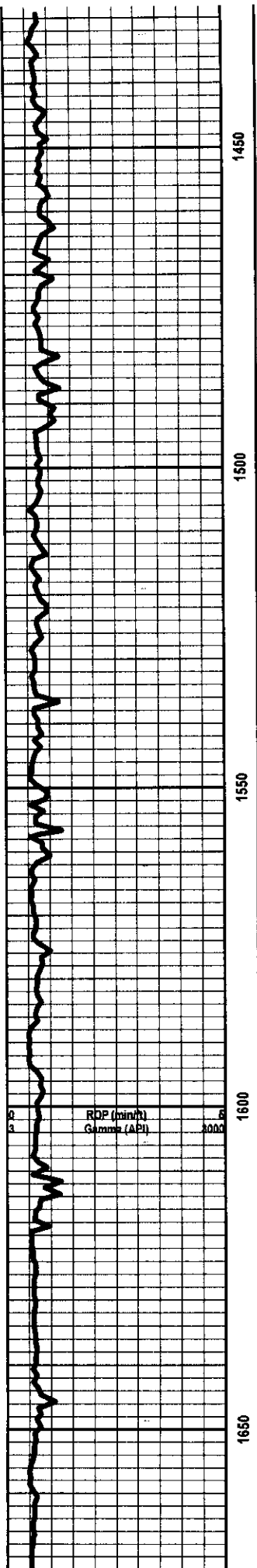
- Core
- Dst
- Dst

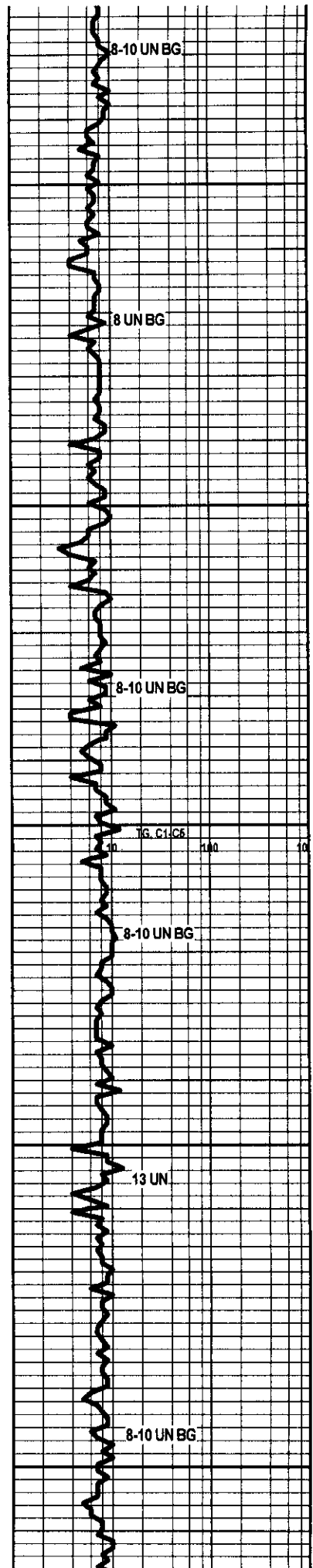
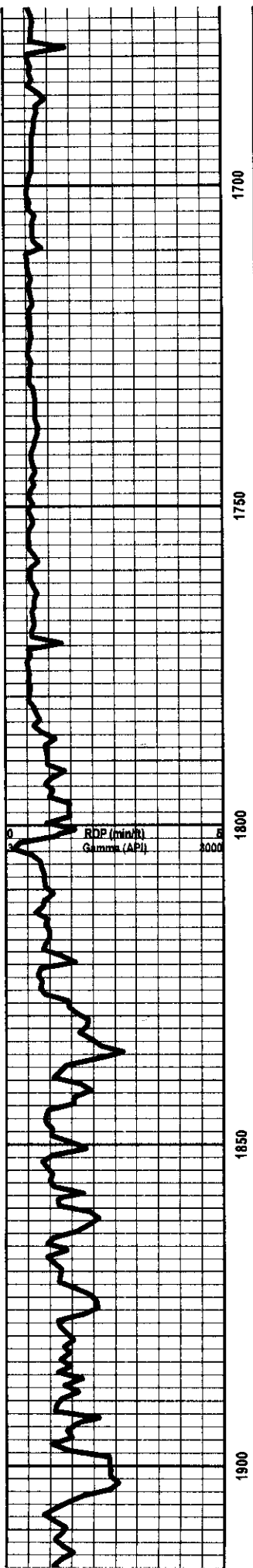
EVENTS

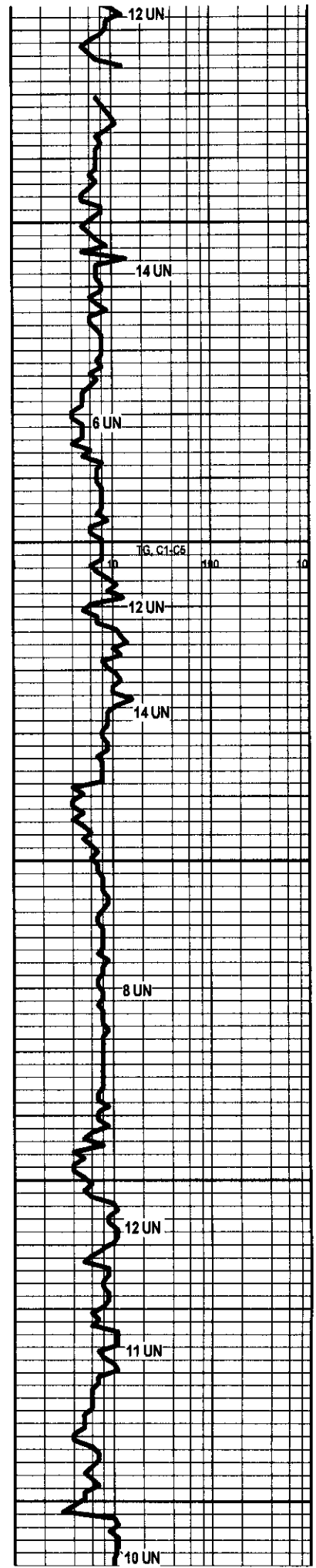
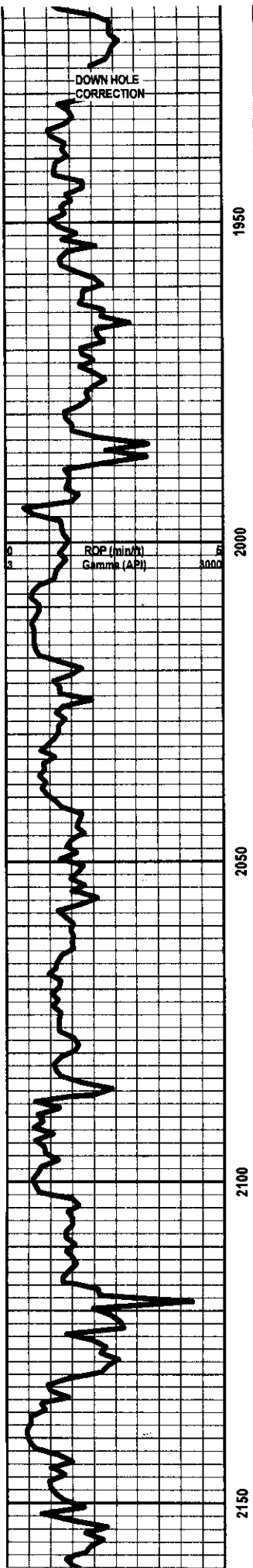
- Rft
- Sidewall

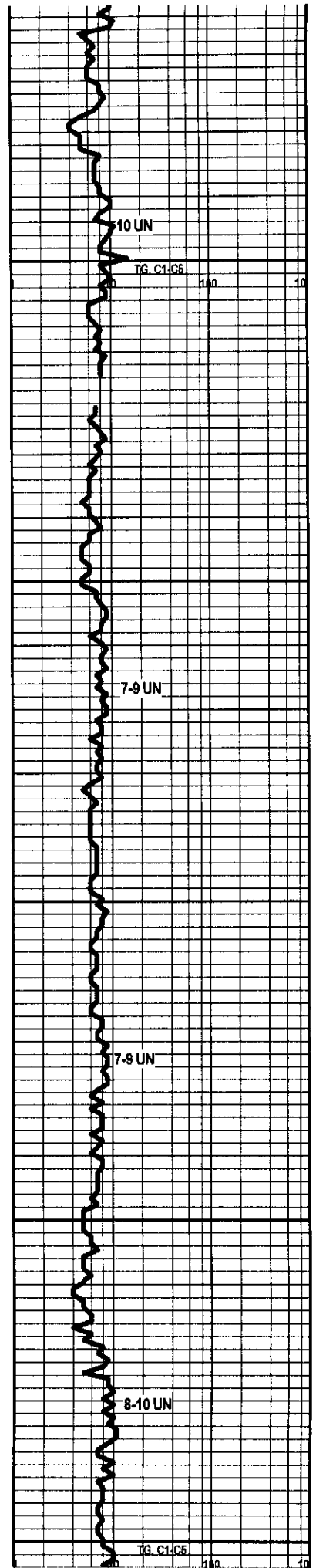
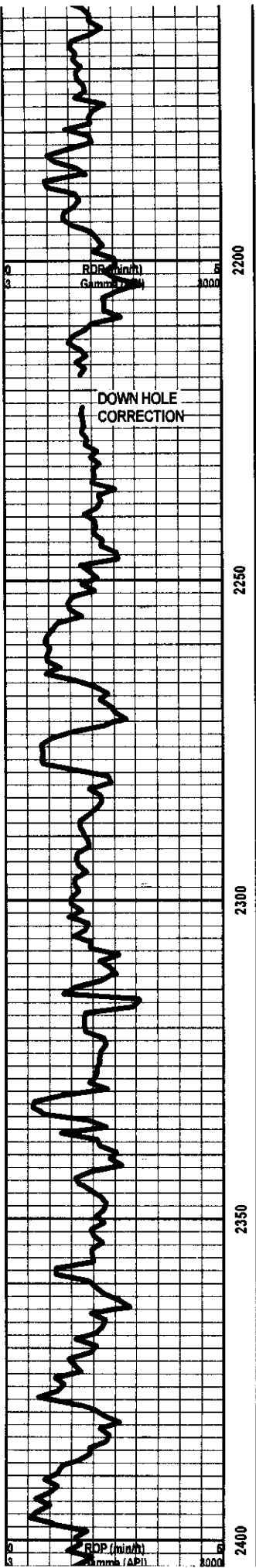


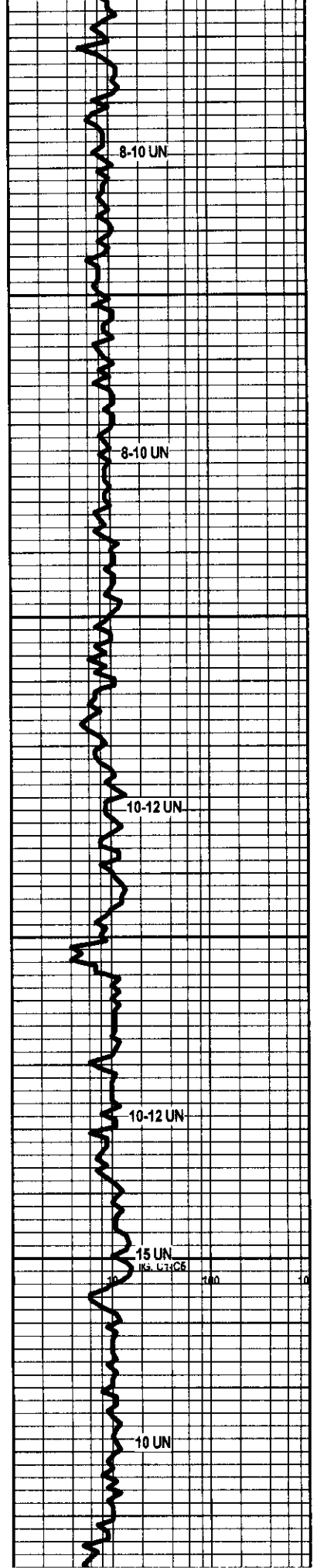
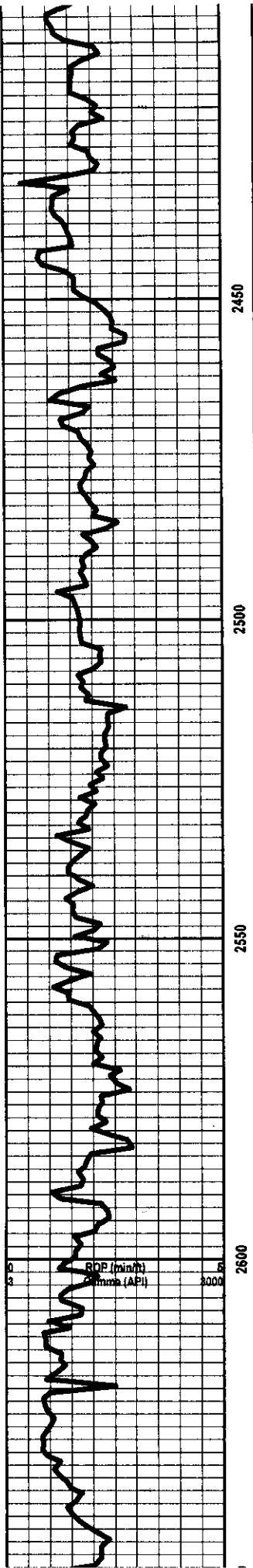
START UNMANNED LOGGING UNIT
07/05/10

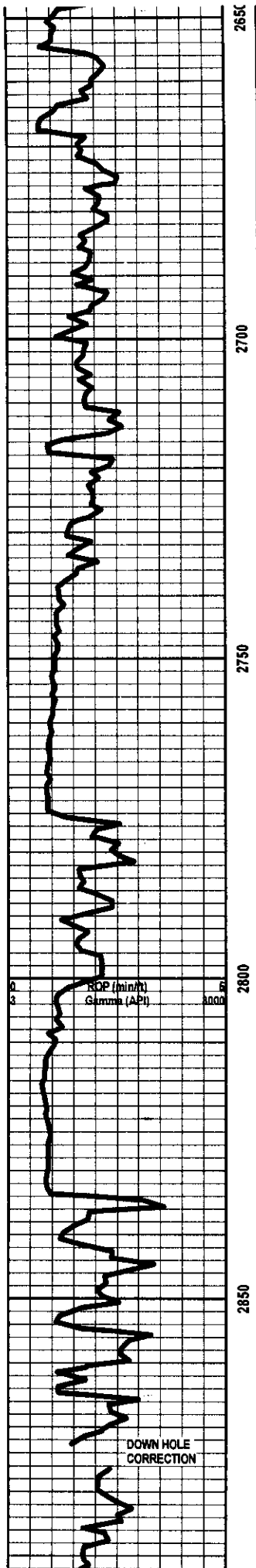








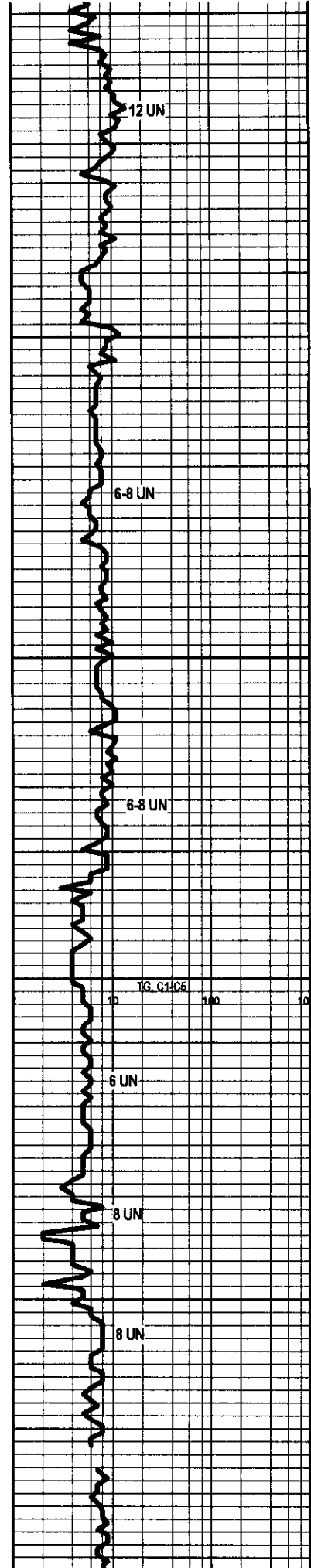


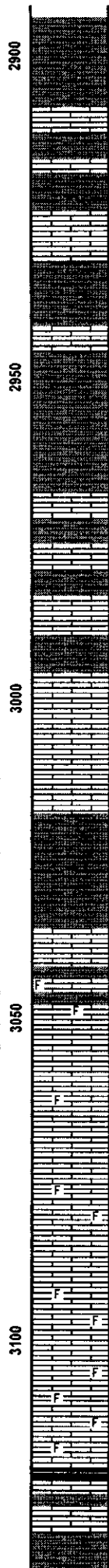
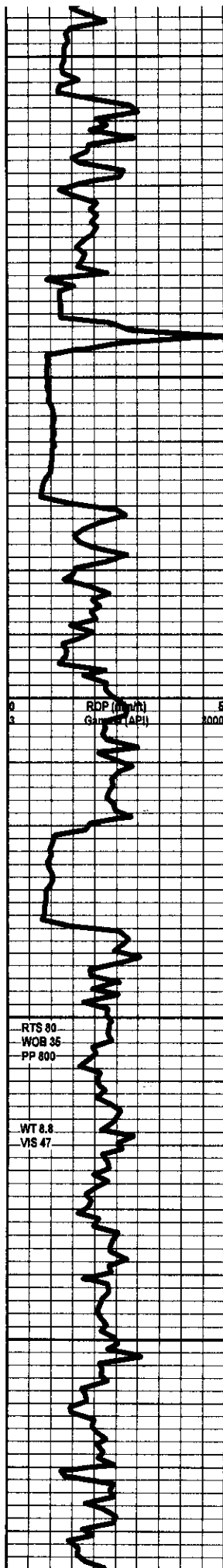


WABAUNSEE 2648' -621'

GRAND HAVEN 2718' -691'

BASE ROOT SHALE 2774' -747'





START 24 HR MANNED UNIT 07/07/10
SH GRY SLTLY FRM SF SILTY

LS TN LT GRY HD DN BRITT VVFN TO FN XLN MTX NO FLO NO VIS POR NO VIS SHOW

SH DK GRY TO GRY SMOOTH SPLNTY FRM

LS GRY DK TN TO TN HD DN TT CRYPTO TO VVFN XLN MTX DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

SH DK GRY TO GRY SMOOTH SPLNTY FRM

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

SH LT GRY TO GRY SFT GUMMY TO SILTY

HOWARD 2969' -942'

LS GRY TN LT TN HD DN VVFN TO FN XLN MTX TR FOSS FRG IP DISS GRY SH IP SCATT DULL YLW FLO IP NO VIS POR NO VIS SHOW

SH LT GRY SFT SILTY THRU

LS GRY LT GRY DK TN TO BRN HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS NO FLO NO VIS POR NO VIS SHOW

SH GRY LT GRY SFT GUMMY

TOPEKA 3036' -1009'

LS DK TN TO TN TO GRY MOTT HD DN TT VFN TO FN XLN MTX TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

LS LT GRY TN LT TN HD DN BRITT VVFN TO FN XLN MTX SUB-CHLKY IP TR SCATT DULL YLW FLO NO VIS POR NO VIS SHOW

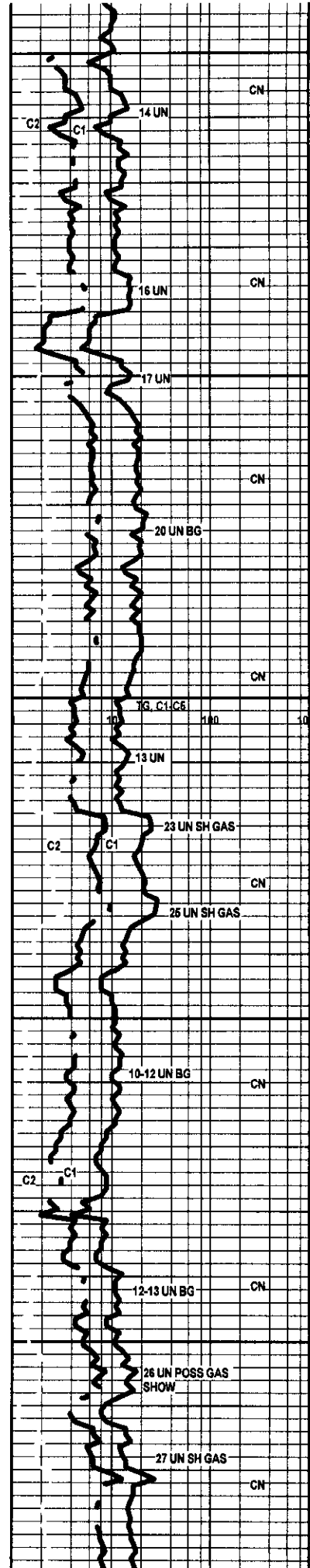
LS GRY TN BUFF MOTT VVFN TO FN XLN MTX RE-XLN MTX IP TR IMBD QRTZ XLS IP TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

LS DK GRY TO GRY BRN TN HD DN BRITT VVFN TO FN XLN MTX TR IMBD FOSS FRG IP SUB-CHLKY IP LT YLW FLO TR POOR INTERXLN POR TO NO POR NO CUT NO VIS SHOW

LS LT GRY TN LT TN BUFF MOTT HD TO FRM BRITT IMBD FOSS SUB-CHLKY TR SCATT DULL YLW FLO TR IMBD LS GRNS IP POOR INTER XLN TO TR VUG POR NO CUT NO VIS SHOW

SH BLK CARB

SH DK GRY TO GRY FRM BRITT SMOOTH CALC TO LMY



Le COMPTON 3144' -1117'

LS TN LT TN CRM BUFF HD TO FRM VFN TO FN XLN MTX RE-XLN MTX TR IMBD FOSS TR IMBD CALC XLS IP NO FLO POOR INTER XLN TO TR FAIR INTER XLN POR NO STAIN NO CUT NO VIS SHOW

LS GRY LT GRY TN BUFF MOTT IP HD DN BRITT VFN TO FN XLN MTX SUCRO TXT IP NO FLO NO VIS POR NO CUT NO VIS SHOW

SH BLK CARB

LS LT TN CRM BUFF FRM TO SFT FN XLN MTX TR IMBD FOSS CHLKY THRU SCATT LT YLW FLO POOR INTERXLN TO TR VUG POR TR MICRO PP POR IP NO STAIN NO ODOR NO CUT NO VIS SHOW

3210' @ 00:01 AM 07/08/2010

SH LT GRY FRM SMOOTH SPLNTY

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

LS CRM BUFF HD FRM BRITT VFN TO FN XLN MTX RE-XLN MTX IP TR IMBD FOSS IP SUCRO TXT IP SUB-CHLKY IP DULL YLW FLO IP TR MICRO PP POR IP TO NO POR NO CUT NO VIS SHOW

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

SH BLK CARB

HEEBNER 3269' -1242'

SH GRY LT GRY TO BRN FRM SMOOTH BRITT GRNY TXT LMY

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

DOUGLAS 3303' -1276'

SH GRY LT GRY SLTLY FRM SMOOTH SFT SILTY

LANSING 3329' -1302'

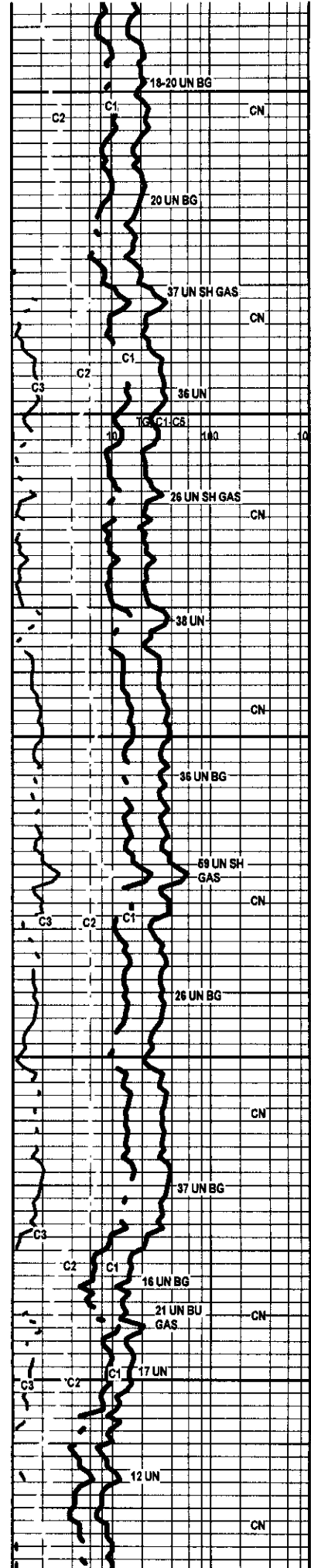
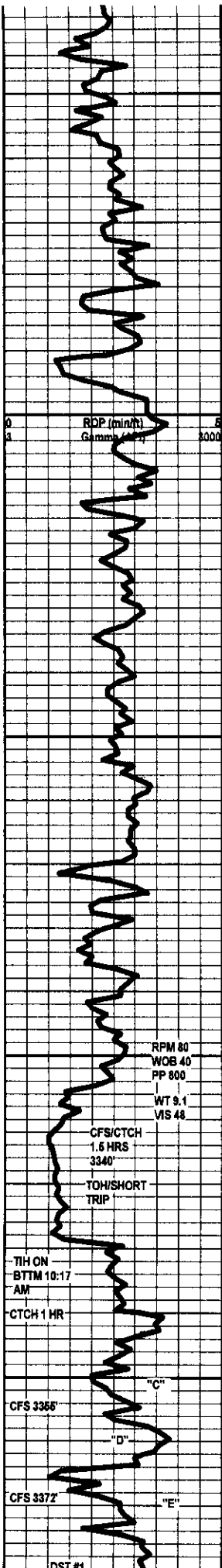
LS LT TN CRM BUFF HD DN BRITT VFN TO FN XLN MTX TR RE-XLN MTX IP TR IMBD FOSS IP LT YLW FLO THRU NO STAIN NO ODOR NO VIS POR NO CUT NO VIS SHOW

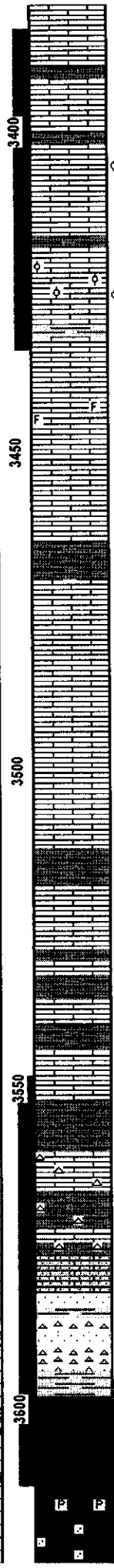
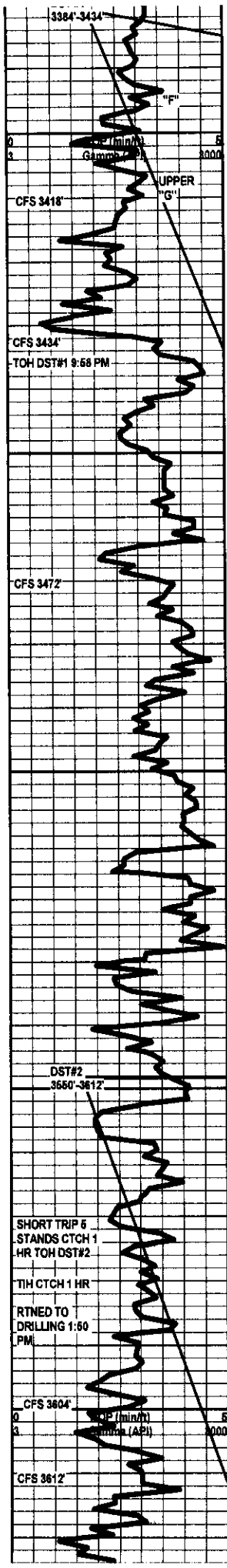
LANSING "C" 3346' -1319'

LS LT TN CRM BUFF TO OFF WHT HD TO FRM VFN TO FN XLN MTX IMBD OOLITES TR VFN IMBD CLEAR ORTZ XLS IP TR OOLITES IMBD IN PIECE OF CHLK LT YLW FLO 60% TR DEAD OIL 40% POOR INTERXLN TR MICRO PP FAIR TO GOOD VUG POR WITH DEAD OIL IN VUGS NO ODOR INSTANT FLUSH CUT TO SPURTY MILKY BLUE STREAM CUT

3364'-3372' LS LT TN CRM BUFF TO OFF WHT FRM BRITT VFN TO FN XLN MTX RE-XLN MTX IMBD OOLITES CHLKY THRU TR PYR NODULES IN TRAY LT YLW FLO 70% NO ODOR NO STAIN OMMOLDIC THRU FAIR INTERXLN TO VUG POR NO CUT NO VIS SHOW

LS TN LT TN BUFF HD DN TT CRYPTO XLN MTX DULL YLW FLO IP NO VIS POR NO VIS SHOW





LS LT TN CRM BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS FRG IP TR LMNTD PYR IP SCATT TR LT YLW FLO IP NO VIS POR NO VIS SHOW

LANSING "F" 3400' -1373'

3391'-3399' LS TN LT TN CRM BUFF MOTT HD DN BRITT VVFN TO FN TR MD XLN MTX TR IMBD CALC XLS IP TR IMBD OOLITES IP ONLY SCATT DULL YLW FLO POSS POOR INTERXLN POR IP NO ODOR NO STAIN NO CUT NO VIS SHOW

3403'-3414' LS TN LT TN CRM BUFF TO OFF WHT HD TO FRM BRITT FN XLN MTX MD XLN MTX IP IMBD FOSS TR IMBD QRTZ XLS IP TR VUGS TO POOR INTERXLN POR TO NO VIS POR FLO 30% STAIN 5% NO ODOR POOR FAINT FLUSH CUT TO SPOTTY SLOW MILKY BLUE STREAM CUT

3417'-3423' LS TN LT TN HD DN BRITT VVFN TO FN XLN MTX TR LMNTD PYR TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

3423'-3427' LS DK TN TO TN LT TN BUFF HD TO FRM BRITT FN XLN MTX TO MD XLN MTX IMBD OOLITES SUB-CHILKY IP TR IMBD PYR IP TR VFN CALC XLS IP LT TO DULL YLW FLO 20% STAIN POOR INTER XLN POR MICRO PP TO PP POR TR VUGS IP FAIR FLUSH CUT TO SLOW MILKY BLUE STREAMING CUT POOR TO FAIR SHOW

3441'-3448' LS GRY LT GRY TN HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS SUCRO TXT THRU TR DULL YLW FLO IP NO STAIN NO ODOR NO VIS POR NO CUT NO VIS SHOW

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

SH DK GRY TO GRY SMOOTH HRD FRM CALC

LS GRY DK TN TO TN BUFF MOTT HD TT CRYPTO TO VVFN XLN MTX TR LT OPAQUE CHERT IP TR IMBD PYR IP NO FLO NO VIS POR NO VIS SHOW

LS LT TN CRM BUFF OFF WHT HD DN TT TO BRITT VVFN TO FN XLN MTX TR-XLN MTX IP IMBD FOSS SCATT DULL YLW FLO NO VIS POR NO CUT NO VIS SHOW

LS LT GRY TN BUFF HD DN BRITT CRYPTO XLN MTX NO FLO NO VIS POR NO VIS SHOW

SH GRY BRN FRM WAXY TEXT THRU

LS TN LT TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR LT ORG CHERT IP NO FLO NO VIS POR NO VIS SHOW

SH GRY BRN FRM BLKY CALC TO LMY WITH TR IMBD FOSS IP

LS LT TN CRM BUFF LT GRY IP HD TO FRM VVFN TO FN XLN MTX SUCRO TXT TR IMBD FOSS IP TR DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

BASE KANSAS CITY 3552' -1525'

SH DK GRY TO GRY FRM TO SFT SMOOTH SPLNTY

LS DK BRN DK TN TO TN HD DN TT CRYPTO XLN MTX WITH IMBD OPAQUE CHERT

SH LT GRY TO LT PURPLE AND PINK WITN LT WHT TO TRANS LUCENT CHERT IP

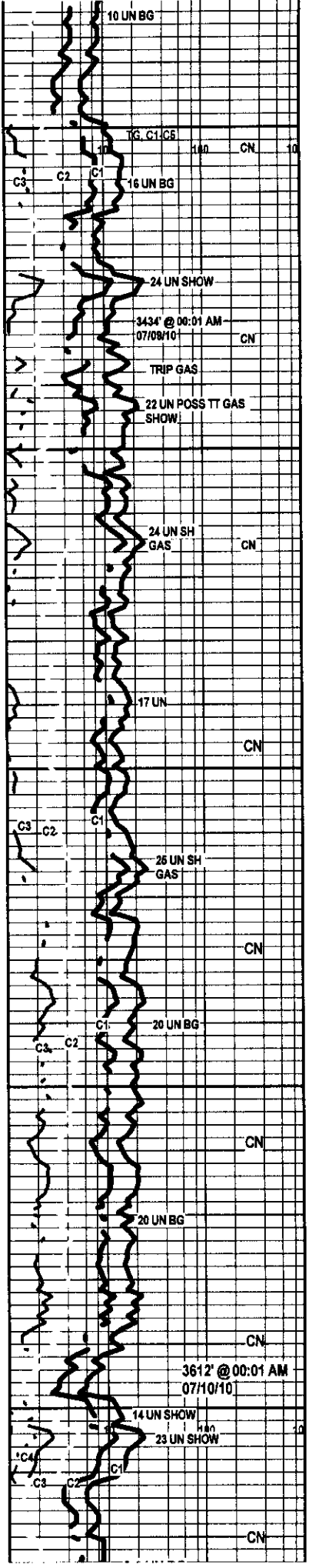
LS GRY LT GRY HD TO FRM VVFN TO FN XLN MTX IMBD SU-RND SS GRNS VRY SUCRO TXT NO FLO NO VIS POR NO VIS SHOW

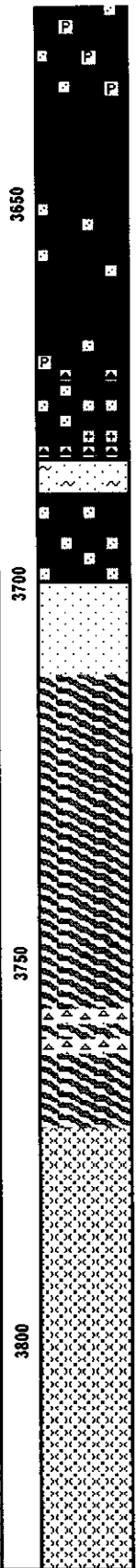
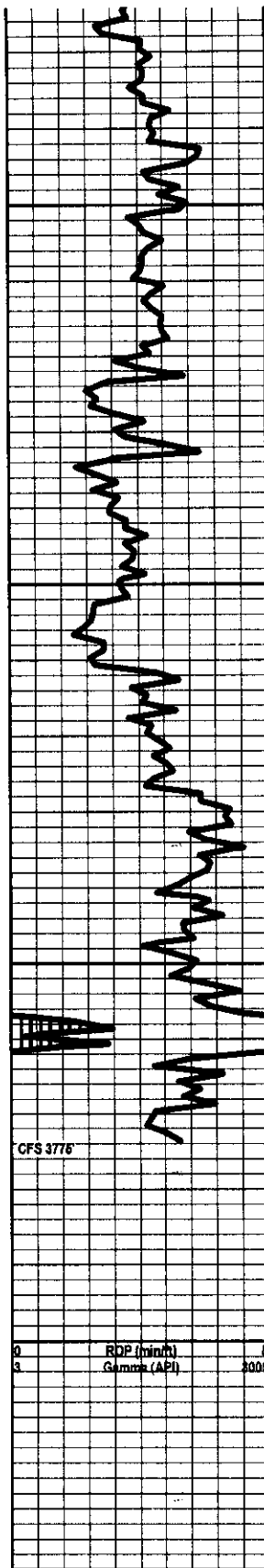
SS CLR FRSTY WHT SM SUB-RND TO RND SS GRNS WITH CALC CMNT GLAC TR OIL STAIN IP LT YLW FLO IP TR IMBD GRY SH IP TR PYR IP POSS TT INTERGRAN POR FAINT FLUSH CUT TO DULL LT YLW RING CUT

ARBUCKLE 3598' -1571'

DOL WHT TO OFF WHT HD TO FRM VVFN TO FN TO MD XLN MTX RE-XLN MTX IMBD ANG TO SUB-ANG DOL XLS TR IMBD FOSS IP IMBD CLR TO FRSTY QRTZ XLS LT YLW FLO 60% GLDN YLW FLO 20% STAIN 40% FAIR TO GOOD ODOR POOR FAIR TO TR GOOD INTERXLN POR INSTANT FLUSH CUT TO FAIR TO GOOD MILKY BLUE STREAMING CUT

DOL CRM BUFF OFF WHT LT GRY HD TO FRM VVFN TO FN TO MD XLN MTX TR IMBD DOL XLS TR IMBD FRSTY WHT QRTZ XLS IP CHILKY THRU LT YLW FLO TO NO FLO NO ODOR NO STAIN FAIR TO GOOD INTERXLN POR TR MICRO PP POR NO CUT NO VIS SHOW





DOL CRM BUFF OFF WHT TO WHT HD DN FRM VVFN TO FN XLN MTX TR
IMBD QRTZ XLS IP TR IMBD FOSS IP TR IMBD PYR IP NO STAIN NO FLO
NO VIS POR NO VIS SHOW

DOL OFF WHT TO WHT HD DN TT CRYPTO TO VVFN XLN MTX NO VIS
POR NO VIS SHOW

DOL OFF WHT TO WHT LT GRY TO TN HD DN VVFN TO FN XLN MTX TR
FELDSPAR TR IMBD SM, MD CLR SS GRNS IMBD NO FLO POSS TT
INTERXLN POR NO CUT NO VIS SHOW

DOL OFF WHT TO WHT LT GRY TO TN HD DN VVFN TO FN XLN MTX TR
FELDSPAR TR IMBD SM, MD CLR SS GRNS IMBD NO FLO POSS INTER
XLN PORNO CUT NO VIS SHOW

SS CLR FRSTY WHT LT TN LT GRY CLUSTERS FAIR SORT SUB-ANG
TO SUB-RND TO RND WITH SILICIOUS AND DOL CMNT TR GLAC TR
IMBD GRY CLY NO POOR TO FAIR TR GOOD INTER-GRAN POR NO FLO
NO STAIN NO ODOR NO CUT NO VIS SHOW

DOL CRM OFF WHT TO WHT HD TO FRM BRITT VVFN TO FN XLN MTX
IMBD CLR SUB-RND TO RND SS GRNS THRU POOR INTERXLN POR TO
NO POR NO STAIN NO CUT NO VIS SHOW

SS CLR FRSTY WHT UNCONSOL SUB-RND TO RN SS GRNS LOOSE IN
TRAY THRU NO FLO NO STAIN NO ODOR NO VIS SHOW

QRTZITE CLR TO FSTY SM TO MD ANG TO SUB-ANG
UNCONSOLIDATED NO FLO NO VIS POR NO VIS SHOW

QRTZITE HD CLR FROSTY TO WHT UNCONSOLIDATED
MD TO LG ANG TO SUB-ANG LOOSE IN TRAY NO FLO NO
STAIN NO VIS POR NO VIS SHOW

QRTZITE CLR TO FSTY CLUSTERS SM TO MD TO
SUB-RND TO RND WITH IMBD GRY GRN CLAY NO FLO
NO VIS POR NO VIS SHOW

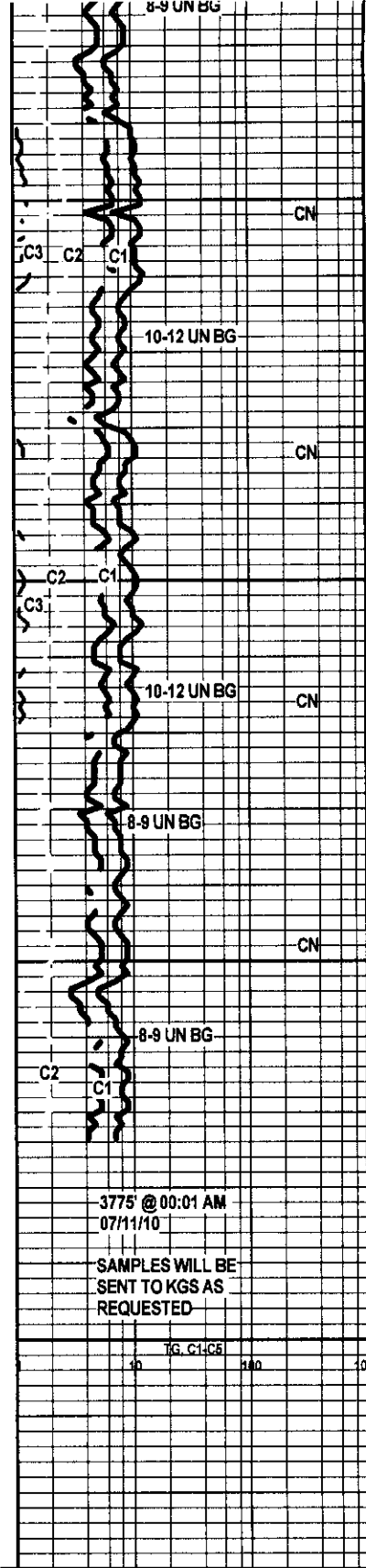
CHERT DK TN TO TN OPAQUE TO ORNG PURPLE HD DN
TT MICRO CRYPTO TO CRYPTO XLN MTX NO FLO NO VIS
POR NO VIS SHOW

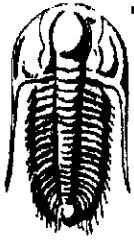
RTD 3775' 07/10/10

CTCH 1.5 HRS

TOH FOR LOGS

THANK YOU FOR CHOOSING EARTHTECH





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton
Job Ticket: 39852 **DST#: 1**
Test Start: 2010.07.08 @ 23:32:39

GENERAL INFORMATION:

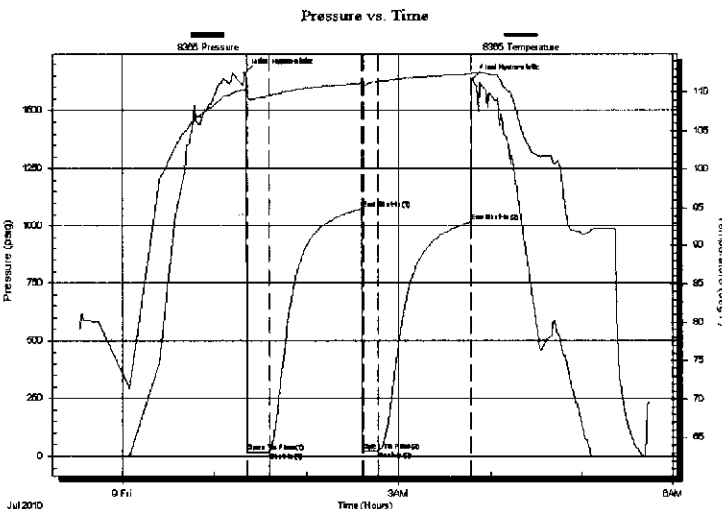
Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 01:21:34 Tester: Ray Schwager
 Time Test Ended: 05:44:03 Unit No: 42
 Interval: **3384.00 ft (KB) To 3434.00 ft (KB) (TVD)** Reference Elevations: 2027.00 ft (KB)
 Total Depth: 3434.00 ft (KB) (TVD) 2017.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8365

Inside

Press@RunDepth: 21.94 psig @ 3386.01 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.08 End Date: 2010.07.09 Last Calib.: 2010.07.09
 Start Time: 23:32:39 End Time: 05:44:03 Time On Btm: 2010.07.09 @ 01:20:04
 Time Off Btm: 2010.07.09 @ 03:48:34

TEST COMMENT: IFP-surface bl thru-out
 FFP-no bl
 Times 15-60-10-60
 no bl on shut-in



PRESSURE SUMMARY

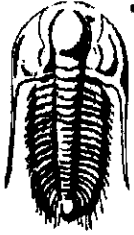
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.25	110.29	Initial Hydro-static
2	17.26	109.57	Open To Flow (1)
16	19.59	109.55	Shut-In(1)
76	1075.10	111.12	End Shut-In(1)
77	20.55	110.79	Open To Flow (2)
87	21.94	111.37	Shut-In(2)
147	1016.60	112.31	End Shut-In(2)
149	1634.81	112.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton

Job Ticket: 39852

DST#: 1

Test Start: 2010.07.08 @ 23:32:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 10.16 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

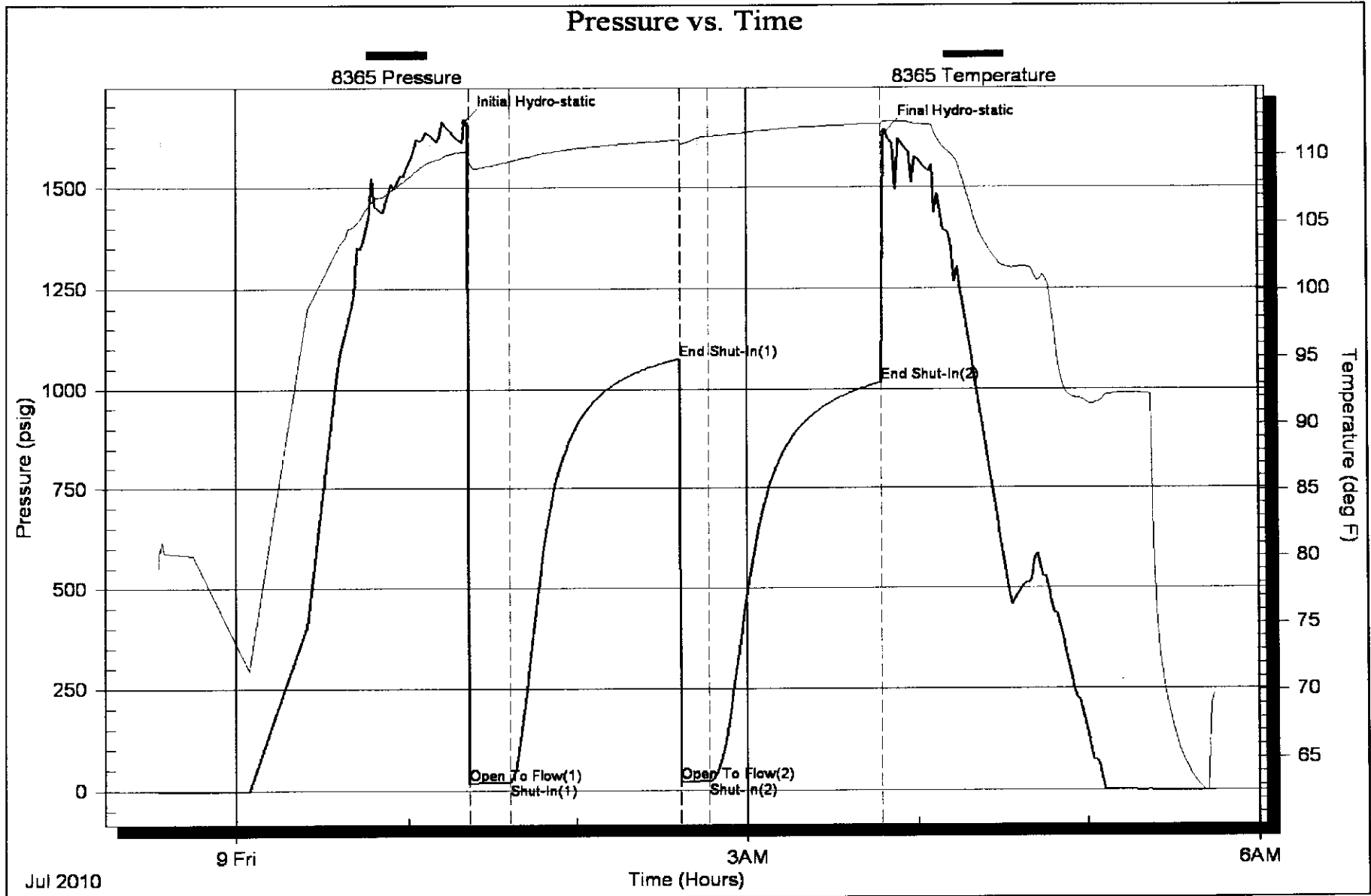
Num Gas Bombs: 0

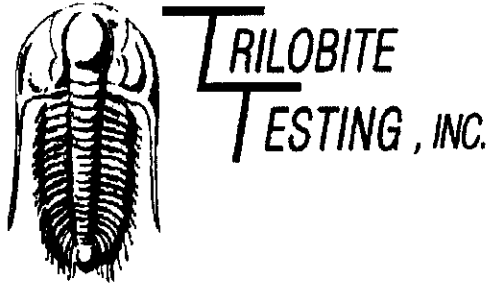
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

1515 Wynkoop
Ste 700
Denver Ks 80202

ATTN: Clayton Camozzi

19-17s-15w Barton

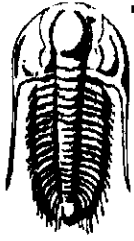
Stos-Stos #1-19

Start Date: 2010.07.10 @ 02:36:32

End Date: 2010.07.10 @ 10:39:26

Job Ticket #: 39853 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

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton
Job Ticket: 39853 **DST#: 2**
Test Start: 2010.07.10 @ 02:36:32

GENERAL INFORMATION:

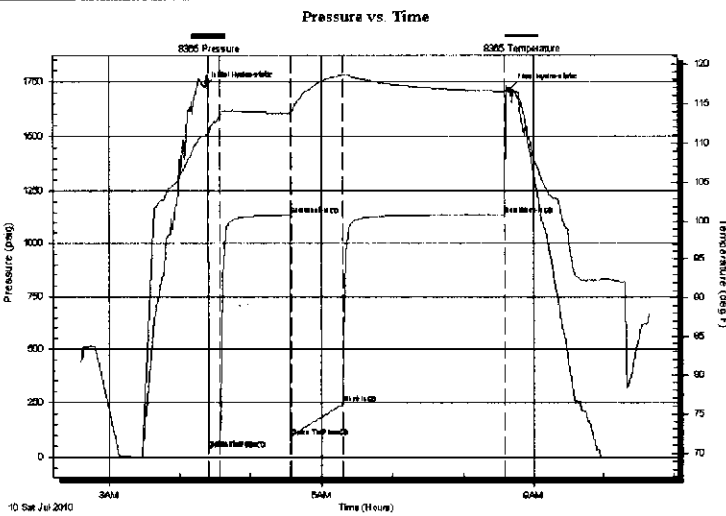
Formation: **Arbuckle**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 04:24:27
 Time Test Ended: 10:39:26
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 42
 Interval: **3550.00 ft (KB) To 3612.00 ft (KB) (TVD)**
 Total Depth: 3612.00 ft (KB) (TVD)
 Reference Elevations: 2027.00 ft (KB)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 2017.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8365

Inside

Press@RunDepth: 243.99 psig @ 3552.01 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.10 End Date: 2010.07.10 Last Callb.: 2010.07.10
 Start Time: 02:36:32 End Time: 10:39:26 Time On Btm: 2010.07.10 @ 04:21:27
 Time Off Btm: 2010.07.10 @ 08:39:56

TEST COMMENT: IFF-w k to strg in 7 min
 FFP-w k to strg in 15 min
 Times 10-60-45-135
 no bl on shut-in



PRESSURE SUMMARY

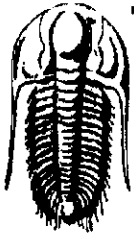
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.69	110.95	Initial Hydro-static
3	38.25	110.81	Open To Flow (1)
13	79.75	113.48	Shut-In(1)
72	1137.67	113.87	End Shut-In(1)
73	95.15	113.87	Open To Flow (2)
117	243.99	118.63	Shut-In(2)
254	1138.83	116.53	End Shut-In(2)
259	1716.83	116.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	CO	0.42
100.00	OCM 20%O80%M	1.40
186.00	SOCMW 5%O10%M85%W	2.61
248.00	Water	3.48

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton
Job Ticket: 39853 **DST#: 2**
Test Start: 2010.07.10 @ 02:36:32

GENERAL INFORMATION:

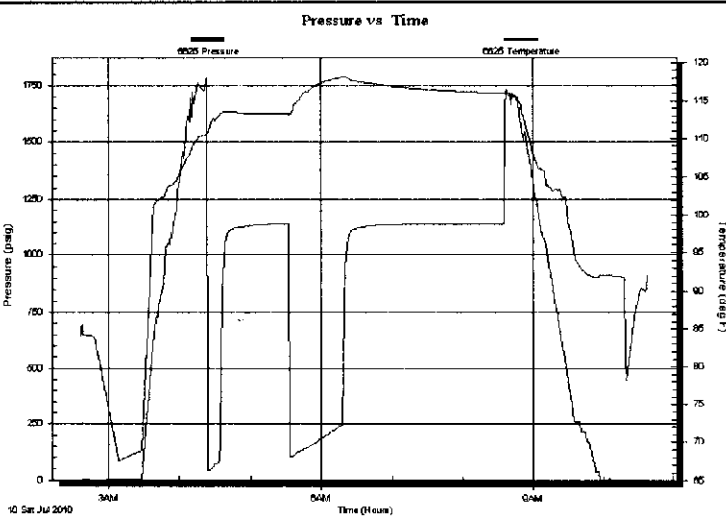
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:24:27
Time Test Ended: 10:39:26
Interval: **3550.00 ft (KB) To 3612.00 ft (KB) (TVD)**
Total Depth: 3612.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42
Reference Elevations: 2027.00 ft (KB)
2017.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6625

Outside

Press@RunDepth: psig @ 3552.02 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.10 End Date: 2010.07.10 Last Calib.: 2010.07.10
Start Time: 02:36:21 End Time: 10:38:45 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-w k to strg in 7 min
FFP-w k to strg in 15 min
Times 10-60-45-135
no bl on shut-in



PRESSURE SUMMARY

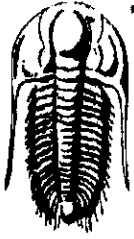
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	CO	0.42
100.00	OCM 20% O 80% M	1.40
186.00	SOCMMV 5% O 10% M 85% W	2.61
248.00	Water	3.48

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton

Job Ticket: 39853

DST#: 2

Test Start: 2010.07.10 @ 02:36:32

Tool Information

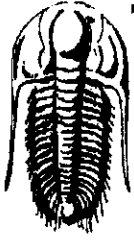
Drill Pipe:	Length: 3535.00 ft	Diameter: 3.80 inches	Volume: 49.59 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3550.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.02 ft			
Tool Length:	90.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3523.00	
Shut In Tool	5.00			3528.00	
Hydraulic tool	5.00			3533.00	
Jars	5.00			3538.00	
Safety Joint	2.00			3540.00	
Packer	5.00			3545.00	28.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Perforations	1.00			3552.00	
Recorder	0.01	8365	Inside	3552.01	
Recorder	0.01	6625	Outside	3552.02	
Blank Spacing	32.00			3584.02	
Perforations	25.00			3609.02	
Bullnose	3.00			3612.02	62.02 Bottom Packers & Anchor

Total Tool Length: 90.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop

19-17s-15w Barton

Ste 700

Job Ticket: 39853

DST#: 2

Denver Ks 80202

ATTN: Clayton Camozzi

Test Start: 2010.07.10 @ 02:36:32

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 38000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.15 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7100.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

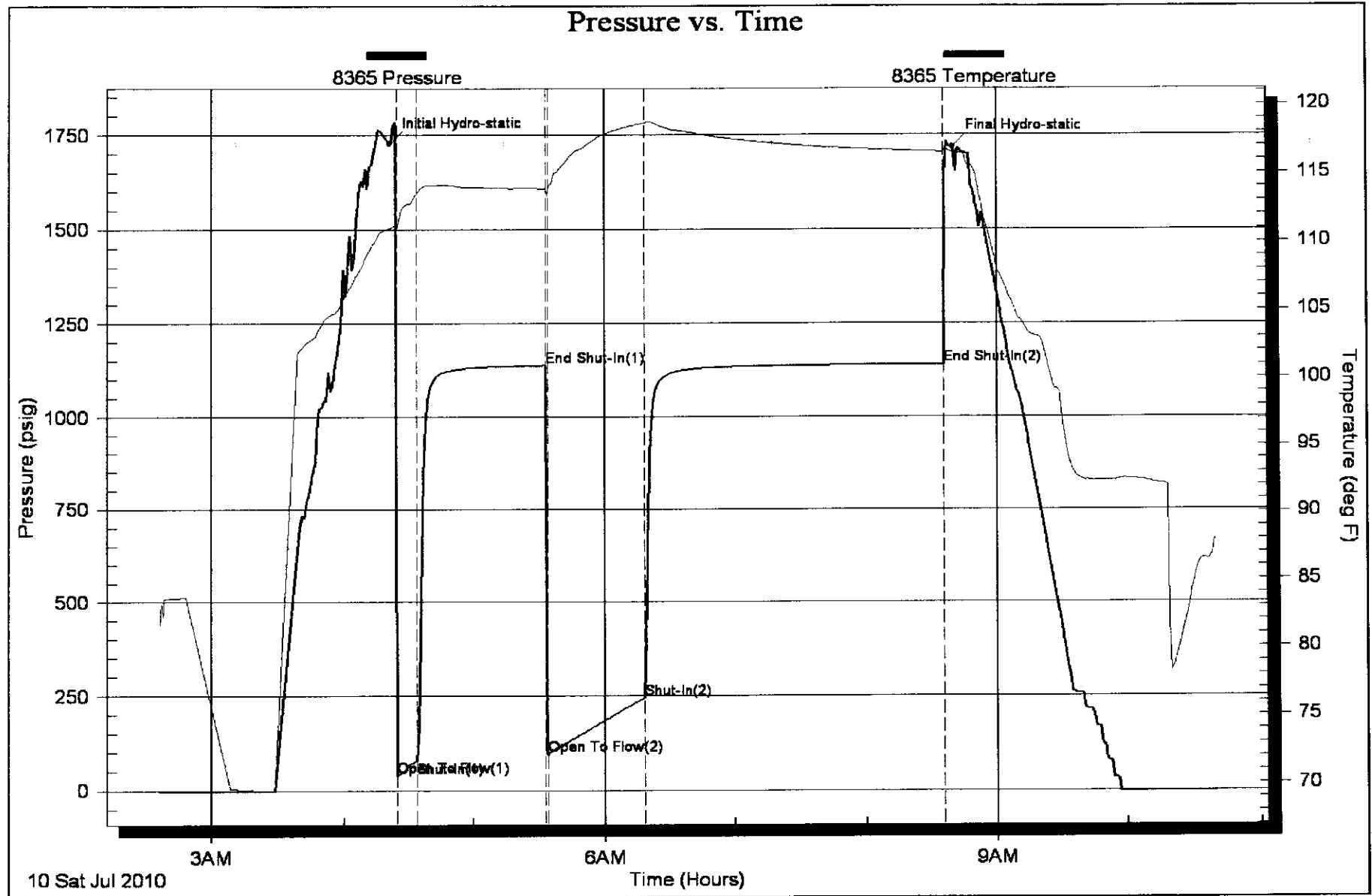
Length ft	Description	Volume bbl
30.00	CO	0.421
100.00	OCM 20% O 80% M	1.403
186.00	SOCMW 5% O 10% M 85% W	2.609
248.00	Water	3.479

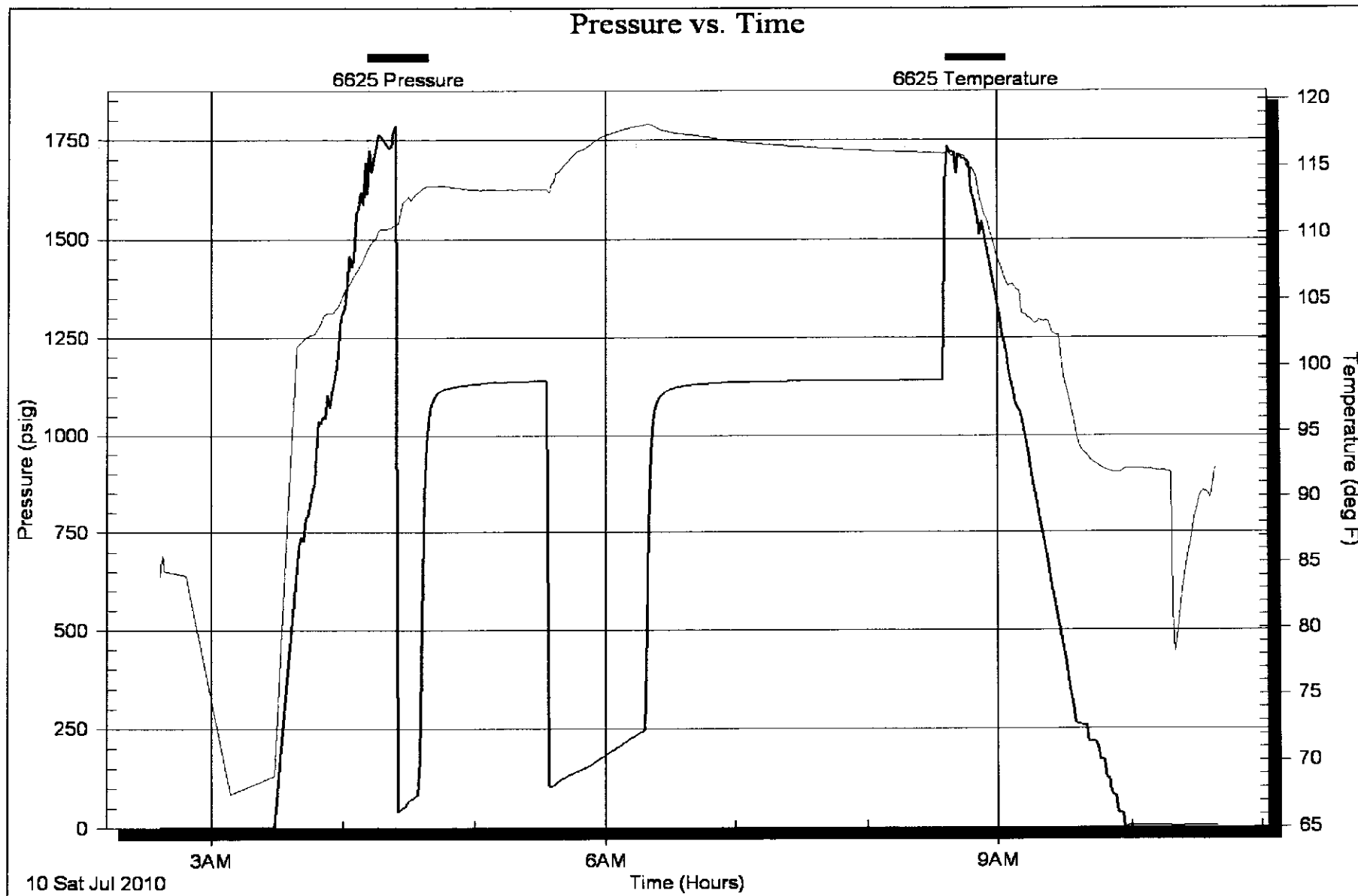
Total Length: 564.00 ft Total Volume: 7.912 bbl

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

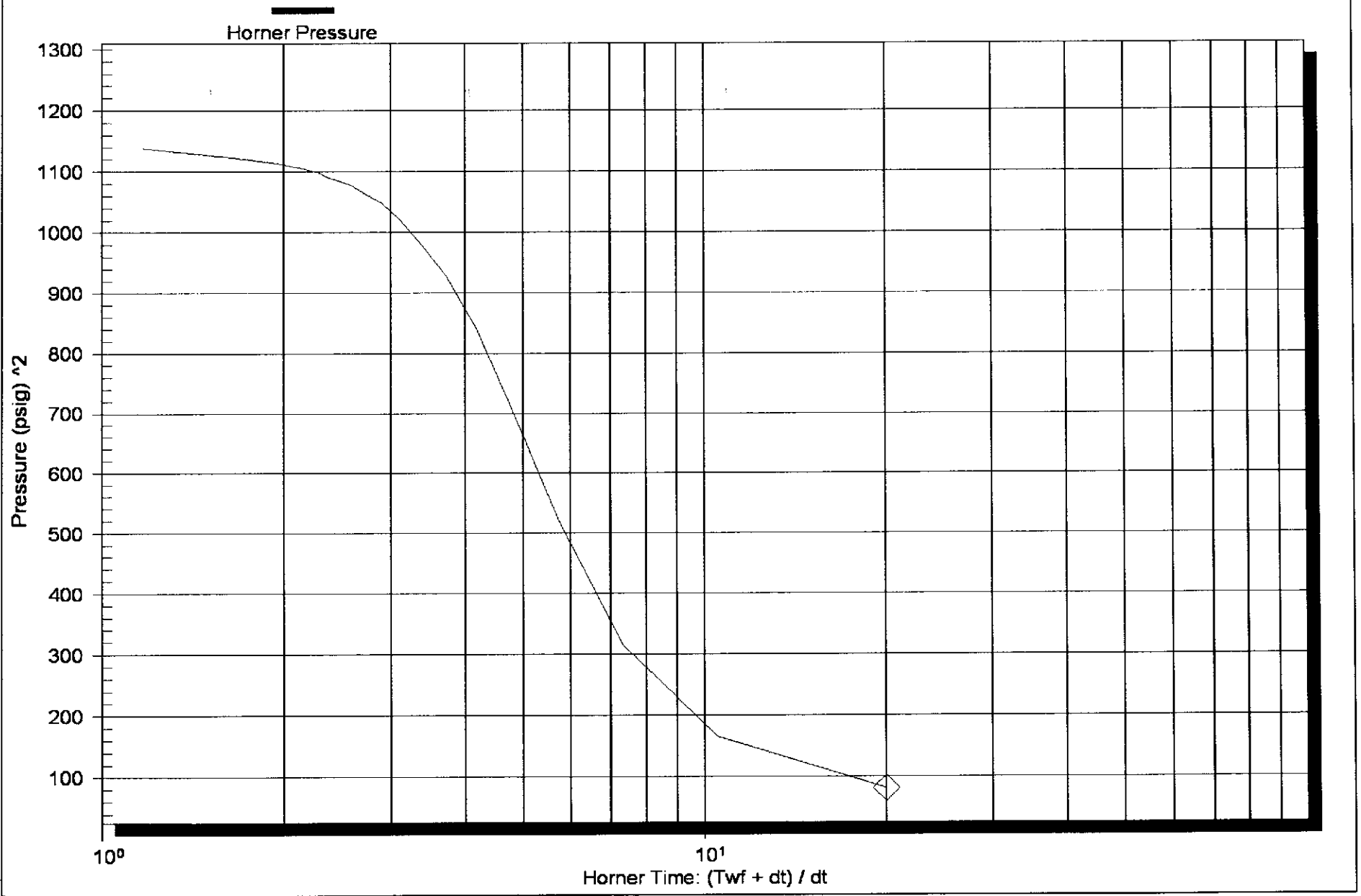
Laboratory Name: Laboratory Location:

Recovery Comments: RW .13 @ 96F

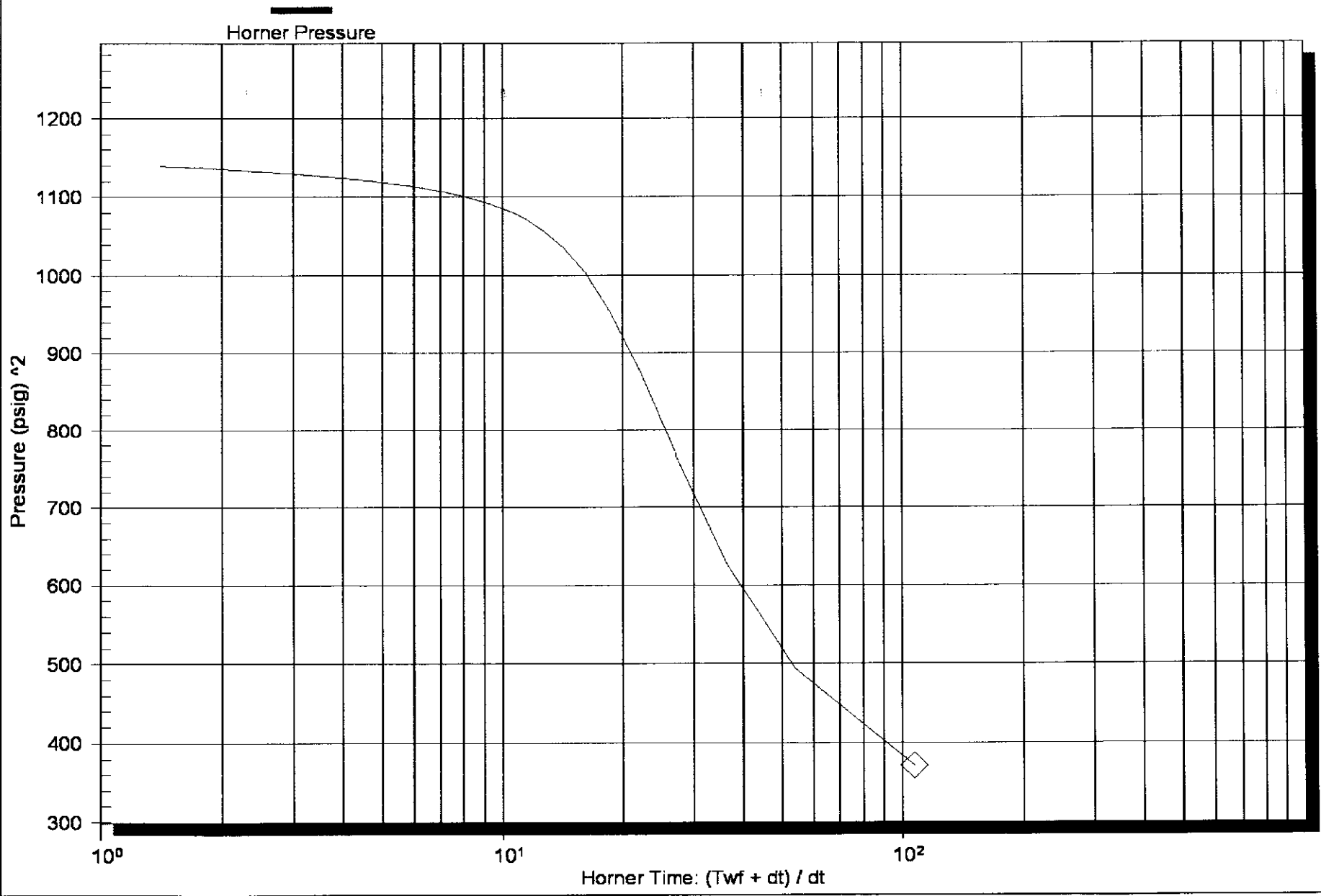


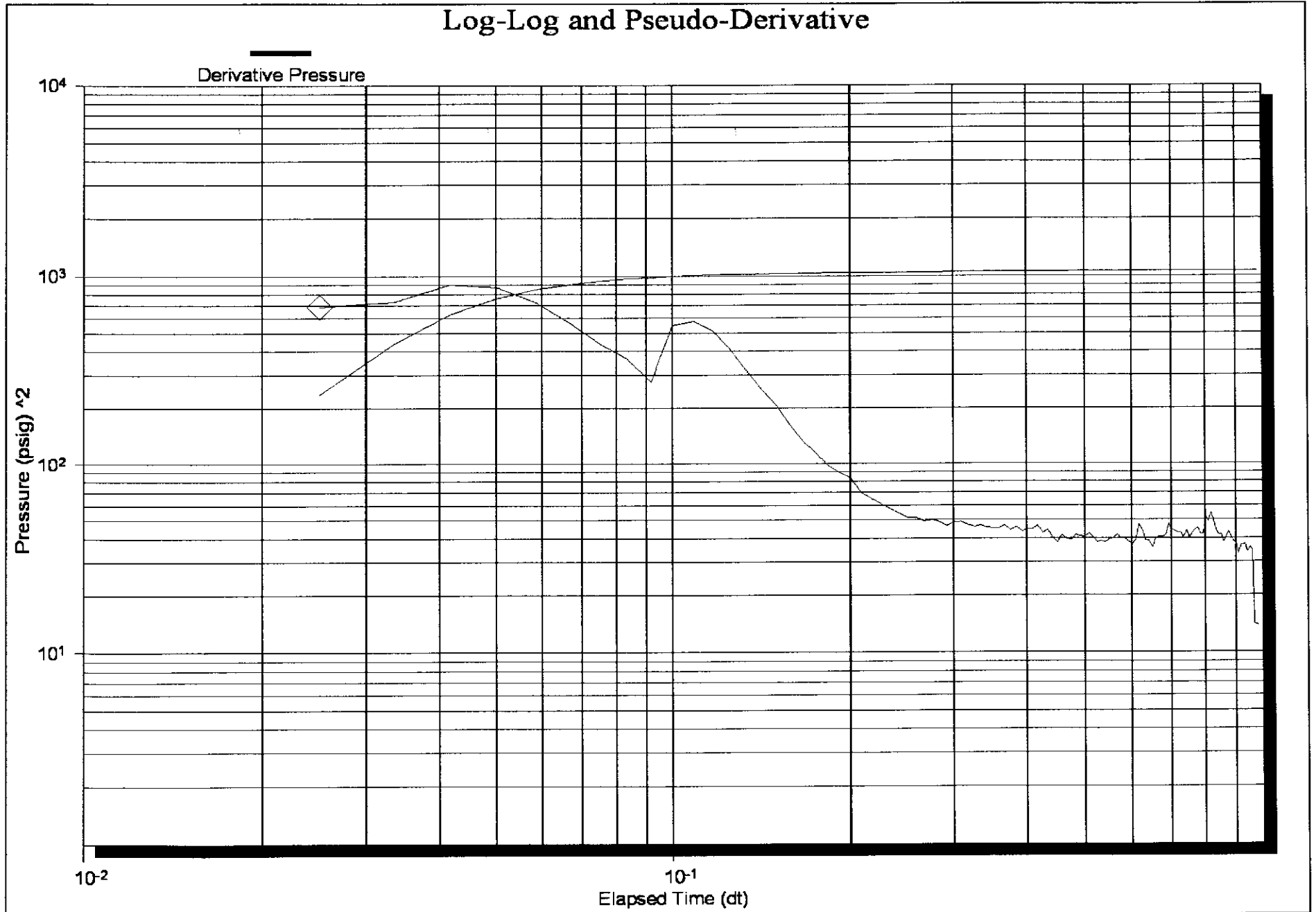


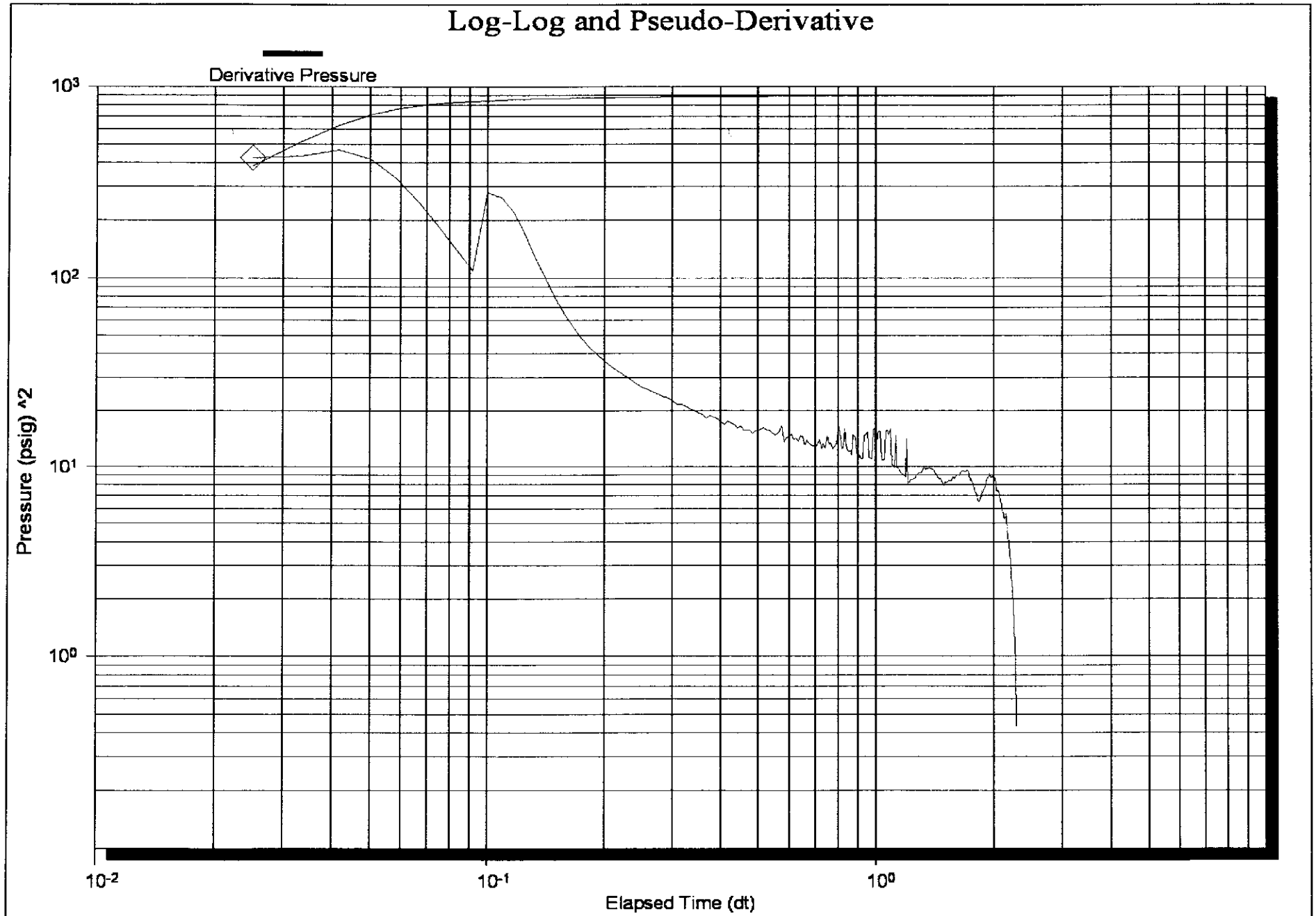
Horner Plot

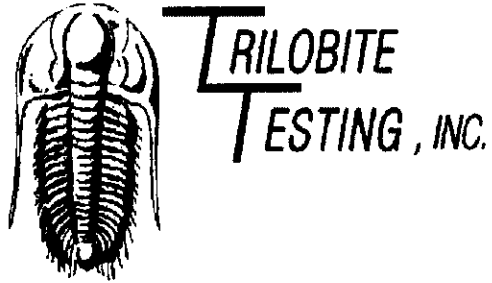


Horner Plot









DRILL STEM TEST REPORT

Prepared For: **SamGary Jr**

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

Sec19Twp17sRge15w

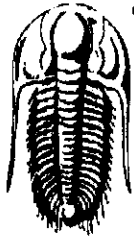
Stos-Stos 1-19

Start Date: 2010.07.11 @ 06:50:02

End Date: 2010.07.11 @ 16:34:32

Job Ticket #: 38775 DST #: 3

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 Jr
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Stos-Stos 1-19
Sec19Twp17sRge15w
Job Ticket: 38775 **DST#: 3**
Test Start: 2010.07.11 @ 06:50:02

GENERAL INFORMATION:

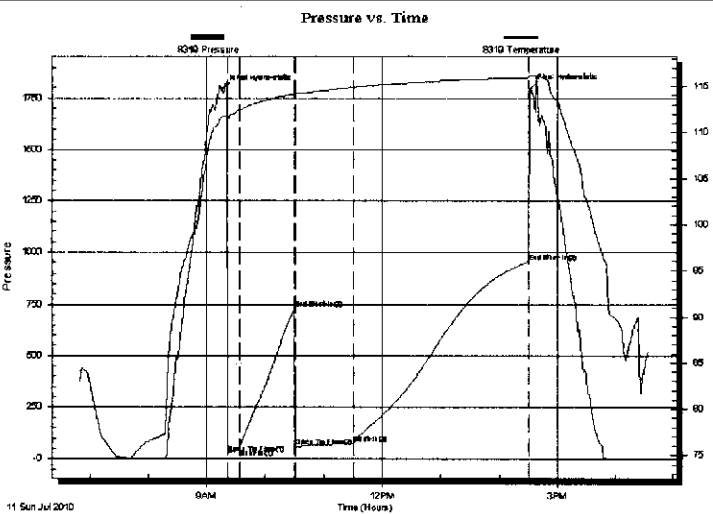
Formation: **Arb**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 09:21:32
Time Test Ended: 16:34:32
Interval: **3593.00 ft (KB) To 3602.00 ft (KB) (TVD)**
Total Depth: 3773.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Straddle
Tester: Brett Dickinson
Unit No: 47
Reference Elevations: 2030.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8319

Inside

Press@RunDepth: 75.73 psig @ 3594.00 ft (KB)
Start Date: 2010.07.11 End Date: 2010.07.11
Start Time: 06:50:07 End Time: 16:34:32
Capacity: 8000.00 psig
Last Callb.: 2010.07.11
Time On Btm: 2010.07.11 @ 09:16:02
Time Off Btm: 2010.07.11 @ 14:32:32

TEST COMMENT: IF-3in blow
IS-No blow
FF-5.25in blow
FSI-No blow



PRESSURE SUMMARY

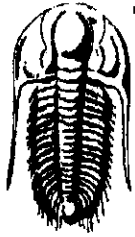
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.56	111.69	Initial Hydro-static
6	24.96	111.36	Open To Flow (1)
18	49.90	112.43	Shut-In(1)
74	731.69	114.16	End Shut-In(1)
75	58.22	114.18	Open To Flow (2)
135	75.73	114.91	Shut-In(2)
314	954.70	115.92	End Shut-In(2)
317	1796.39	116.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SOCM 10%O 90%M	0.34
80.00	SGO 5%G 95%O	0.63
0.00	90ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

SamGary Jr
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Stos-Stos 1-19
Sec19Twp17sRge15w
Job Ticket: 38775 **DST#: 3**
Test Start: 2010.07.11 @ 06:50:02

GENERAL INFORMATION:

Formation: **Arb**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:21:32
Time Test Ended: 16:34:32

Test Type: Conventional Straddle
Tester: Brett Dickinson
Unit No: 47

Interval: **3593.00 ft (KB) To 3602.00 ft (KB) (TVD)**
Total Depth: 3773.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2030.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369

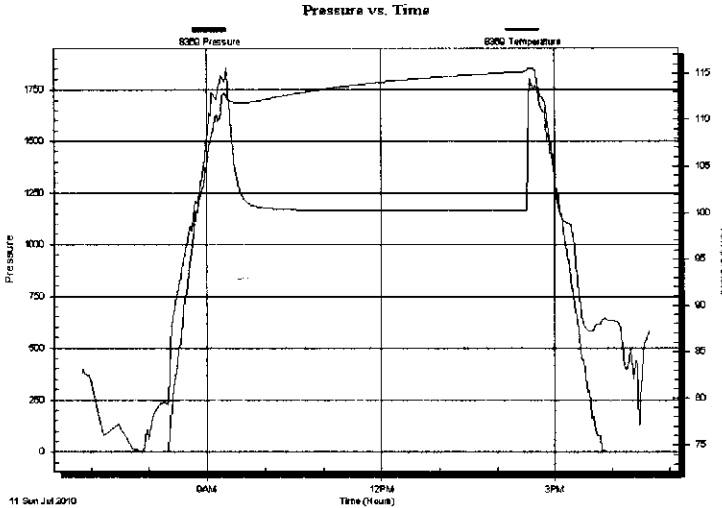
Below (Straddle)

Press@RunDepth: psig @ 3603.00 ft (KB)
Start Date: 2010.07.11 End Date: 2010.07.11
Start Time: 06:50:57 End Time: 16:39:52

Capacity: 8000.00 psig
Last Calib.: 2010.07.11
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-3in blow
ISI-No blow
FF-5.25in blow
FSI-No blow

PRESSURE SUMMARY



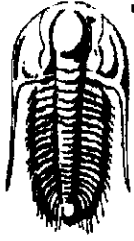
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SOCM 10%O 90%M	0.34
80.00	SGO 5%G 95%O	0.63
0.00	90ft GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

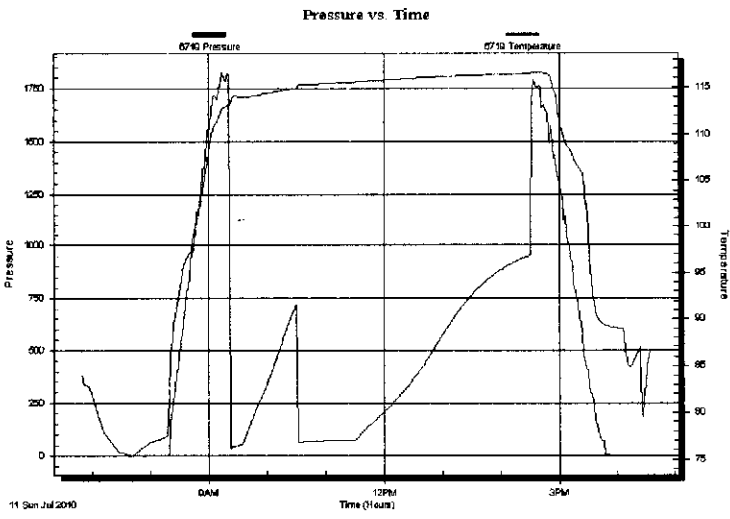
Stos-Stos 1-19
Sec19Twp17sRge15w
Job Ticket: 38775 **DST#: 3**
Test Start: 2010.07.11 @ 06:50:02

GENERAL INFORMATION:

Formation: **Arb**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:21:32
Time Test Ended: 16:34:32
Interval: **3593.00 ft (KB) To 3602.00 ft (KB) (TVD)**
Total Depth: 3773.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Reference Elevations: 2030.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6719 Inside
Press@RunDepth: psig @ 3598.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.11 End Date: 2010.07.11 Last Calib.: 2010.07.11
Start Time: 06:50:13 End Time: 16:34:38 Time On Btm:
Time Off Btm:

TEST COMMENT: IF-3in blow
IS- No blow
FF-5.25in blow
FS- No blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
70.00	SOCM 10%O 90%M	0.34
80.00	SGO 5%G 95%O	0.63
0.00	90ft GIP	0.00

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

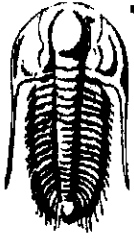
Sam Gary Jr
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Stos-Stos 1-19
Sec19Twp17sRge15w
Job Ticket: 38775 **DST#: 3**
Test Start: 2010.07.11 @ 06:50:02

Tool Information

Drill Pipe:	Length: 3467.00 ft	Diameter: 3.80 inches	Volume: 48.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3593.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	3602.00 ft			
Interval between Packers:	9.00 ft			
Tool Length:	206.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Jars	4.00			3581.00	
Safety Joint	3.00			3584.00	
Packer	4.00			3588.00	27.00 Bottom Of Top Packer
Packer	5.00			3593.00	
Stubb	1.00			3594.00	
Recorder	0.00	8319	Inside	3594.00	
Perforations	4.00			3598.00	
Recorder	0.00	6719	Inside	3598.00	
Blank Off Sub	1.00			3599.00	
Blank Spacing	3.00			3602.00	9.00 Tool Interval
Packer	0.00			3602.00	
Stubb	1.00			3603.00	
Recorder	0.00	8369	Below	3603.00	
Perforations	3.00			3606.00	
Change Over Sub	1.00			3607.00	
Blank Spacing	155.00			3762.00	
Change Over Sub	1.00			3763.00	
Perforations	6.00			3769.00	
Bullnose	3.00			3772.00	170.00 Bottom Packers & Anchor
Total Tool Length:	206.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

SamGary Jr
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Stos-Stos 1-19
Sec19Twp17sRge15w
Job Ticket: 38775 **DST#: 3**
Test Start: 2010.07.11 @ 06:50:02

Mud and Cushion Information

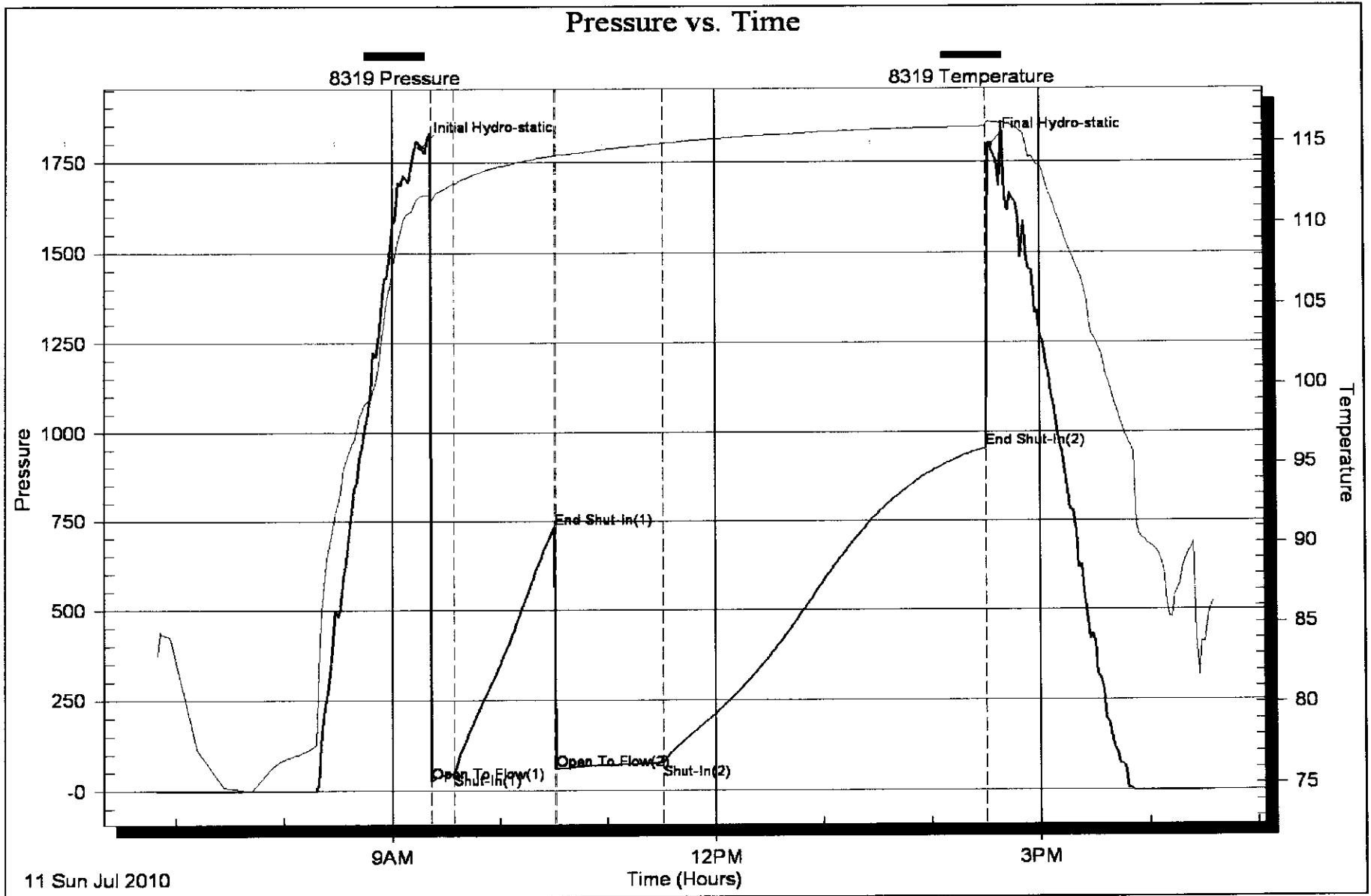
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6600.00 ppm			
Filter Cake: inches			

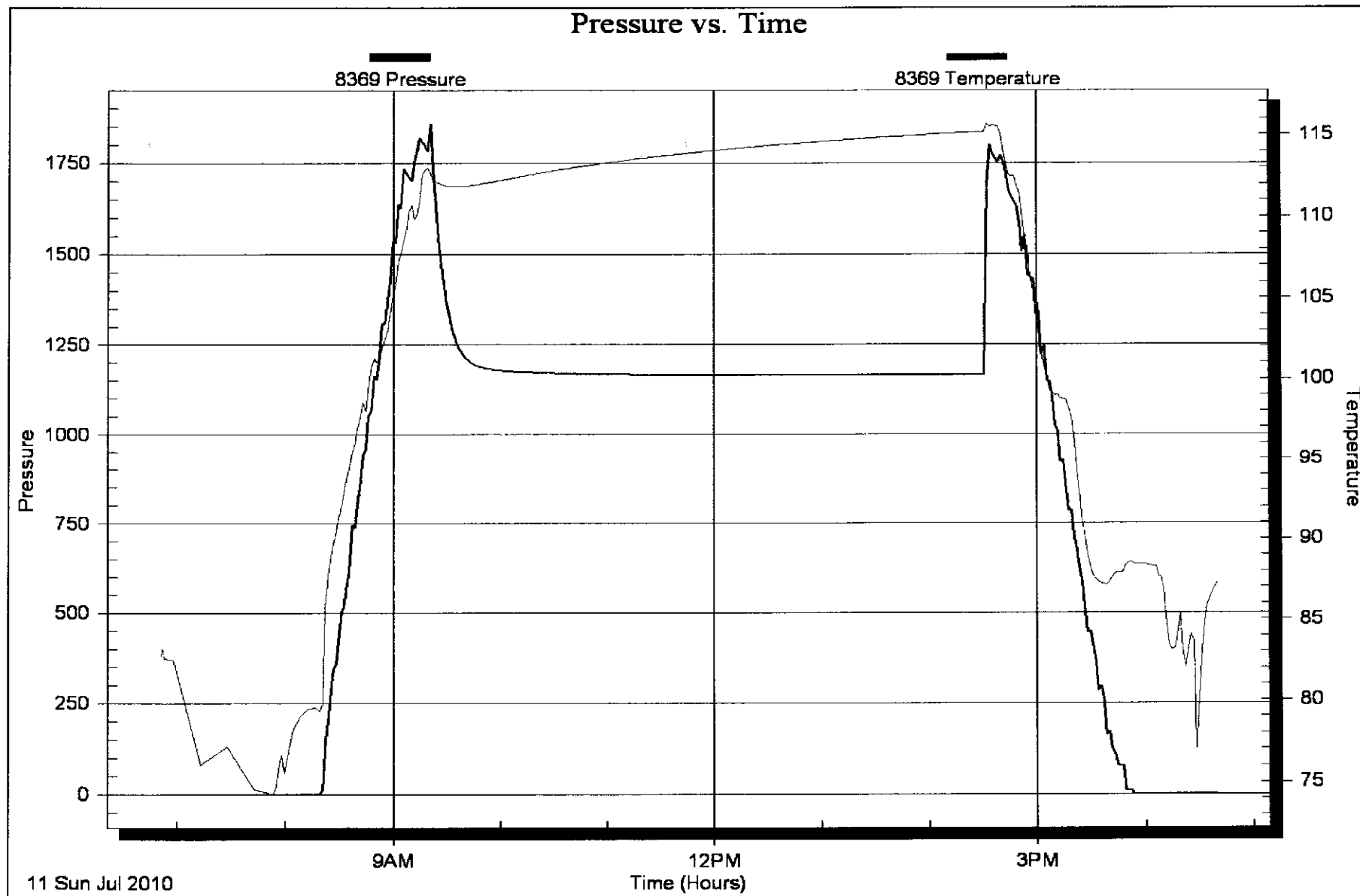
Recovery Information

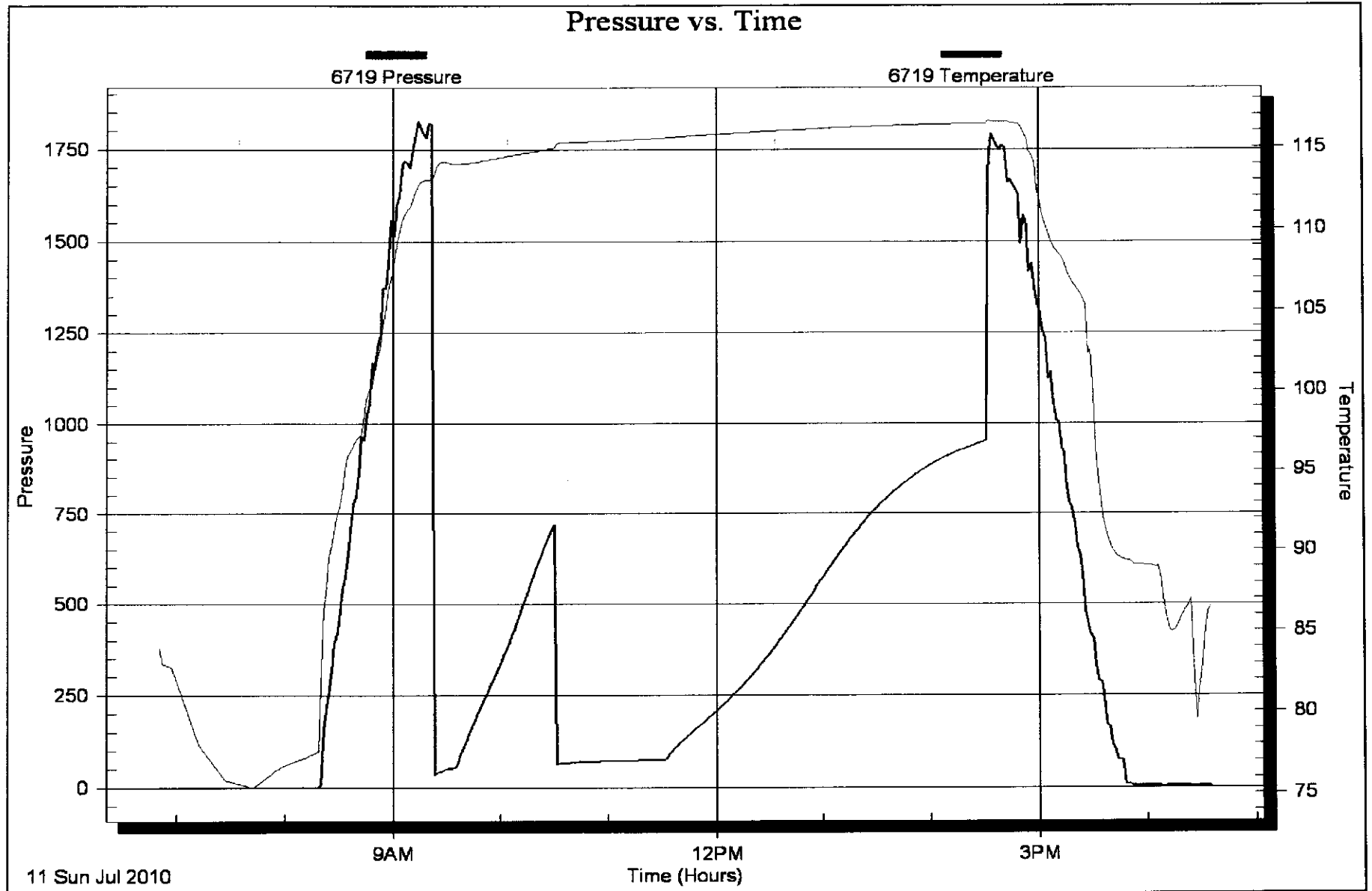
Recovery Table

Length ft	Description	Volume bbl
70.00	SOCM 10%O 90%M	0.344
80.00	SGO 5%G 95%O	0.630
0.00	90ft GP	0.000

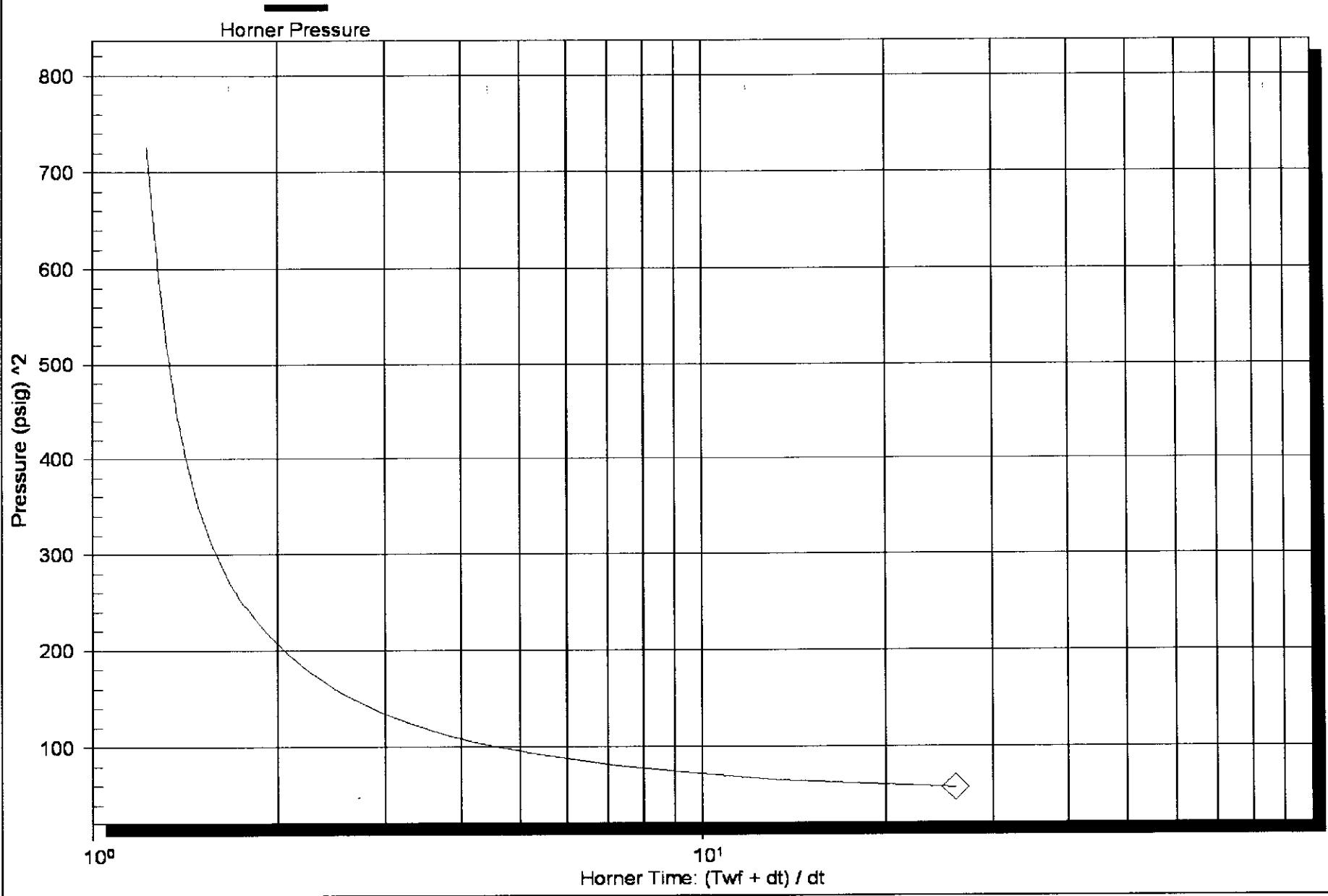
Total Length: 150.00 ft Total Volume: 0.974 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







Horner Plot



Horner Plot

