



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1096114
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1096114

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input 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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SANDRA LEAS 2-25
Doc ID	1096114

All Electric Logs Run

DENSITY
INDUCTION
MICRO
SONIC
SPECTRAL

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 05, 2012

CHRISTOPHER MITCHELL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26323-00-00
SANDRA LEAS 2-25
NW/4 Sec.25-15S-16W
Ellis 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,
CHRISTOPHER MITCHELL



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 6/20/2012
 Invoice # 20

P.O.#:

Due Date: 7/20/2012

Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

RECEIVED

JUN 26 2012

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

DRLG COMP W/O LOE GG

Account	\$200.138
Well/Prospect	
Deck	
AFE	
Approval	AG
Description	

Reference:
 SANDRA LEAS 2-25

Description of Work:
 CONDUCTOR SURFACE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	90	\$ 1,192.11	Yes				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 227.54	No				
Bulk Truck Mat-Material Service Charge	93	\$ 201.94	No				
Calcium Chloride	3	\$ 155.24	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 133.15	No				
Premium Gel (Bentonite)	2	\$ 35.35	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 2,936.73

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (440.51)

SubTotal for Taxable Items: \$ 1,175.30

SubTotal for Non-Taxable Items: \$ 1,320.92

Total: \$ 2,496.22

Tax: \$ 74.04

6.30% Ellis County Sales Tax

Amount Due: \$ 2,570.26

Applied Payments:

Balance Due: \$ 2,570.26

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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 020

Date	10-16-12	Sec.	Twp.	Range	County	State	On Location	Finish
Lease		Well No.	Location <i>Garhove 5 to Mitchell Rd</i>					
Contractor	<i>Vac</i>			Owner	<i>2W25</i>			
Type Job	<i>Conductor Surface</i>			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Hole Size	<i>17 1/2</i>	T.D.	<i>94</i>					
Csg.	<i>13 3/8</i>	Depth	<i>92</i>					
Tbg. Size		Depth	Charge To <i>Sam Gory Jr & Assoc</i>					
Tool		Depth	Street					
Cement Left in Csg.		Shoe Joint	City					
Meas Line		Displace	State					
EQUIPMENT			The above was done to satisfaction and supervision of owner agent or contractor.					
Pumptrk	<i>9</i>	No.	Cementer	Cement Amount Ordered <i>90 ccm 342</i>				
Bulktrk	<i>14</i>	No.	Helper	Common <i>90</i>				
Bulktrk	<i>PV</i>	No.	Driver	Poz. Mix				
JOB SERVICES & REMARKS			Driver	Gel. <i>2</i>				
Remarks:			Driver	Calcium <i>3</i>				
Rat Hole	<i>Sandra-leas 2-25</i>			Hulls				
Mouse Hole				Salt				
Centralizers				Flowseal				
Baskets				Kol-Seal				
D/V or Port Collar				Mud CLR 48				
<i>Cement</i>			CFL-117 or CD110 CAF 38					
<i>Cr</i>			Sand					
			Handling <i>95</i>					
			Mileage					
			FLOAT EQUIPMENT					
			Guide Shoe					
			Centralizer					
			Baskets					
			AFU Inserts					
			Float Shoe					
			Latch Down					
			Pumptrk Charge <i>Conductor Surface</i>					
			Mileage <i>21</i>					
			Tax					
			Discount					
			Total Charge					
Signature <i>Randy O. Monte</i>								



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 6/20/2012
 Invoice # 21

P.O.#:

Due Date: 7/20/2012

Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 SANDRA LEAS 2-25

Description of Work:
 LONG SURFACE JOB

RECEIVED

JUN 26 2012

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

<input checked="" type="checkbox"/> DRLG	<input type="checkbox"/> COMP	<input type="checkbox"/> W/O	<input type="checkbox"/> LOE	<input type="checkbox"/> GG
Account	8200.138			
Well/Prospect				
Deck				
AFE				
Approval	RB			
Description				

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 977.42	No
Common-Class A	370	\$ 4,831.89	Yes
8 5/8" Basket	3	\$ 1,014.76	Yes
Bulk Truck Mat-Material Service Charge	390	\$ 834.93	No
Calcium Chloride	13	\$ 663.21	Yes
Pump Truck Mileage-Job to Nearest Camp	21	\$ 224.34	No
8 5/8" Centralizer	3	\$ 205.52	Yes
Flo Seal	92	\$ 196.96	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 131.28	No
Premium Gel (Bentonite)	7	\$ 121.99	Yes
8 5/8" Top Rubber Plug	1	\$ 113.46	Yes

Item	Quantity	Price	Taxable
Baffle Plate Aluminum, 8 5/8"	1	\$96.34	Yes

Invoice Terms:

Net 30

SubTotal: \$ 9,412.10
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,411.81)

SubTotal for Taxable Items:	\$ 6,157.51
SubTotal for Non-Taxable Items:	\$ 1,842.77
Total:	\$ 8,000.28
Tax:	\$ 387.92

6.30% Ellis County Sales Tax

Amount Due: \$ 8,388.21
Applied Payments:
Balance Due: \$ 8,388.21

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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 021

Date 6-17-12	Sec.	Twp.	Range	County Ellis	State KS	On Location	Finish 2:30 PM
---------------------	------	------	-------	---------------------	-----------------	-------------	-----------------------

Lease Sandra-Leas	Well No. 2-25	Location Gorham S. to Mitchell Rd 2W
--------------------------	----------------------	---

Contractor Wal Drlg	Owner 25 E+5+E+N
----------------------------	-------------------------

Type Job Long Surface	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
------------------------------	--

Hole Size 12 1/4	T.D. 904	Charge To Sam Gary Jr & Assoc
-------------------------	-----------------	--

Csg. 8 1/2	Depth	Street
-------------------	-------	--------

Tbg. Size	Depth	City	State
-----------	-------	------	-------

Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
------	-------	--	--

Cement Left in Csg.	Shoe Joint x 40	Cement Amount Ordered 400 Com 3 + 2 1/4 Flow
---------------------	------------------------	---

Meas Line	Displace x	used 370 370
-----------	-------------------	--------------------------------

EQUIPMENT

Pumptrk 9 No.	Cementer Cody	Common
	Helper	
Bulktrk 13 No.	Driver Levi	Poz. Mix
	Driver	
Bulktrk PU No.	Driver Saul	Gel. 7
	Driver	

JOB SERVICES & REMARKS

Remarks:	Calcium 13
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 924
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
Sandra-Leas 2-25	CFL-117 or CD110 CAF 38
	Sand
	Handling 390
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer 3	
Baskets 3	
AFU Inserts	
Float Shoe	
Latch-Down Rubber plug	
8/8 Head & man	
1 Baffle plate	
Pumptrk Charge Long Surface	
Mileage 21	

*Cement
OK!
Thanks*

X Signature *[Signature]*

Tax
Discount
Total Charge



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 6/27/2012
 Invoice # 691

P.O.#:
 Due Date: 7/27/2012
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 SANDRA LEAS 2-25

Description of Work:
 PLUG JOB

RECEIVED
 JUL 09 2012
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8200.145
Well/Prospect	
Deck	
AFE	HGS
Approval	
Description	

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes
Common-Class A	114	\$ 1,554.42	Yes
Bulk Truck Matl-Material Service Charge	197	\$ 440.35	Yes
POZ Mix-Standard	76	\$ 390.73	Yes
Pump Truck Mileage-Job to Nearest Camp	21	\$ 234.24	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 137.07	Yes
Premium Gel (Bentonite)	7	\$ 127.37	Yes
Flo Seal	50	\$ 111.76	Yes
Dry Hole Plug	1	\$ 62.59	Yes

Item Quantity Price Taxable

Invoice Terms:

Net 30

SubTotal: \$ 4,079.08
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (611.86)

SubTotal for Taxable Items:	\$ 3,467.22
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 3,467.22
Tax:	\$ 218.43
Amount Due:	\$ 3,685.65
Applied Payments:	
Balance Due:	\$ 3,685.65

6.30% Ellis County Sales Tax

Thank You For Your Business!

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 691

Date	6-22-12	Sec.	2	Twp.	15	Range	16	County	Ellis	State	KS	On Location		Finish	9:15 pm
Lease	Sandra BAS			Well No.	2-25			Location	Carham S. Mitchell Tr 2 1/2 Sec Binto						
Contractor	VGI #6							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	Retain Plug							Charge To	Sam Gandy Jr & Assoc.						
Hole Size	7 7/8			T.D.	3520			Depth							
Csg.								Depth							
Tbg. Size								Street							
Tool								City	State						
Cement Left in Csg.								Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line								Displace	Cement Amount Ordered 190 60/10 40/10 1/4 #10						

EQUIPMENT

Pumptrk	5	No.	Cementer	Craig	Common	114
			Helper			
Bulktrk		No.	Driver	Brett	Poz. Mix	76
			Driver			
Bulktrk	10	No.	Driver	Doug	Gel.	7
			Driver			

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole 30	Hulls
Mouse Hole 15	Salt
Centralizers	Flowseal 50#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
1st 3406 25SK	CFL-117 or CD110 CAF 38
2nd 950 40SK	Sand
3rd 300 70SK	Handling 197
4th 40 10SK	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets 8 5/8 Warden Plug
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge plug
	Mileage 21

Tax
Discount
Total Charge

X Signature *[Signature]*



DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

Sandra Leas #2-25

25-25s-16w Ellis,KS

Start Date: 2012.06.21 @ 04:31:47

End Date: 2012.06.21 @ 10:52:17

Job Ticket #: 47405 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.27 @ 10:44:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

25-25s-16w Ellis,KS

1515 Wynkoop St. Ste 700
Denver, CO 80202

Sandra Leas #2-25

Job Ticket: 47405

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.06.21 @ 04:31:47

GENERAL INFORMATION:

Formation: **LKC "J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:50:17

Time Test Ended: 10:52:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3250.00 ft (KB) To 3312.00 ft (KB) (TVD)

Reference Elevations: 1804.00 ft (KB)

Total Depth: 3312.00 ft (KB) (TVD)

1794.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 35.40 psig @ 3289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.21

End Date:

2012.06.21

Last Calib.:

2012.06.21

Start Time: 04:31:48

End Time:

10:52:17

Time On Btm:

2012.06.21 @ 06:48:47

Time Off Btm:

2012.06.21 @ 09:14:17

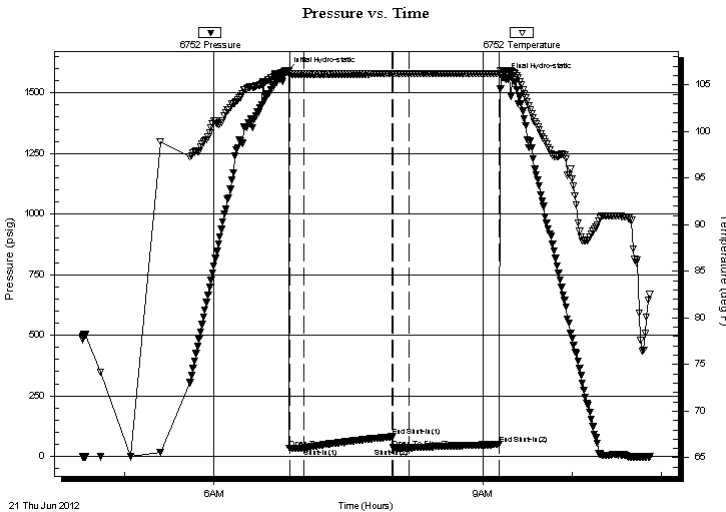
TEST COMMENT: 10 - IFP - sur blow - died 2 min

60 - ISI - no blow back

10 - FFP - no blow

60 - FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.98	106.46	Initial Hydro-static
2	34.16	106.21	Open To Flow (1)
12	34.75	106.16	Shut-In(1)
71	81.10	106.21	End Shut-In(1)
71	35.41	106.19	Open To Flow (2)
82	35.40	106.20	Shut-In(2)
142	49.49	106.25	End Shut-In(2)
146	1561.92	106.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	drl mud 100%	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates, Inc.

25-25s-16w Ellis,KS

1515 Wynkoop St. Ste 700
Denver, CO 80202

Sandra Leas #2-25

Job Ticket: 47405

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.06.21 @ 04:31:47

Tool Information

Drill Pipe:	Length: 3249.00 ft	Diameter: 3.80 inches	Volume: 45.57 bbl	Tool Weight: 2500.00 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: 80000.00 lb
			Total Volume: 45.57 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3250.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8365	Fluid	3216.00	
Blank Spacing	5.00			3221.00	
Shut In Tool	5.00			3226.00	
Sampler	2.00			3228.00	
Hydraulic tool	5.00			3233.00	
Jars	5.00			3238.00	
Safety Joint	2.00			3240.00	
Packer	5.00			3245.00	34.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Perforations	5.00			3256.00	
Change Over Sub	1.00			3257.00	
Blank Spacing	31.00			3288.00	
Change Over Sub	1.00			3289.00	
Recorder	0.00	6752	Inside	3289.00	
Recorder	0.00	6741	Outside	3289.00	
Perforations	20.00			3309.00	
Bullnose	3.00			3312.00	62.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates, Inc.

25-25s-16w Ellis,KS

1515 Wynkoop St. Ste 700
Denver, CO 80202

Sandra Leas #2-25

Job Ticket: 47405

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.06.21 @ 04:31:47

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	drl mud 100%	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

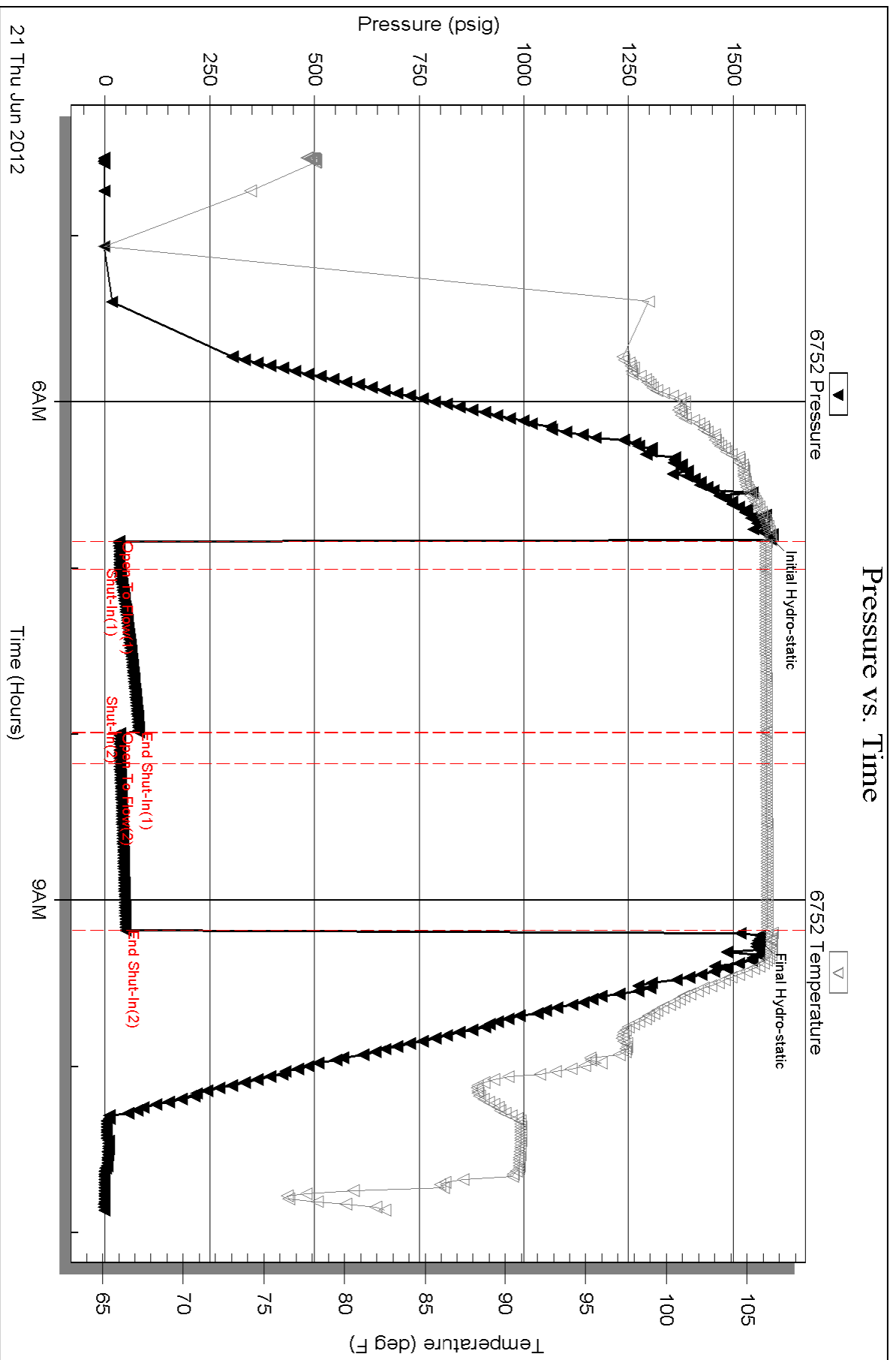
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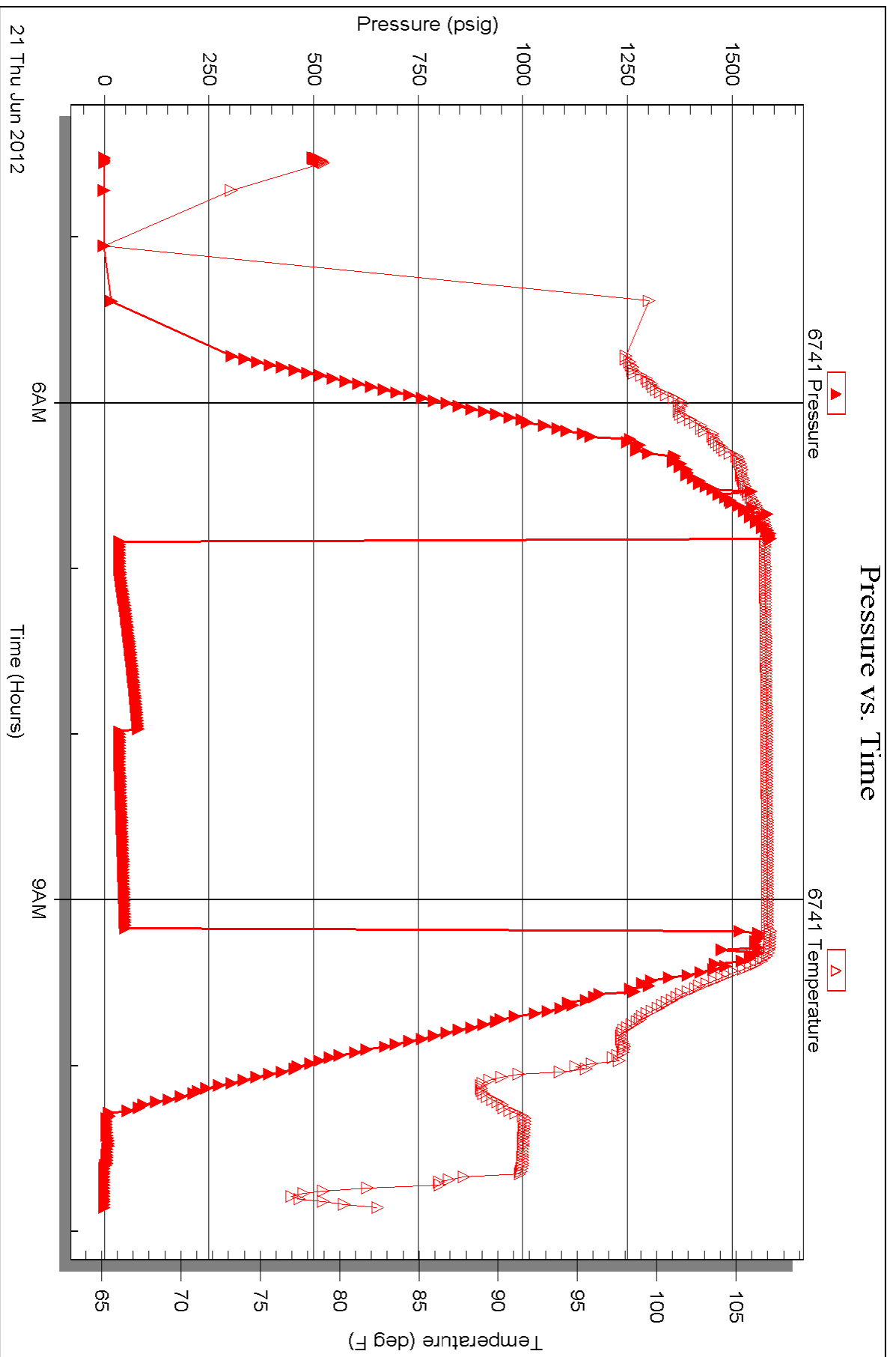
Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER 4000mL mud 75psi

Pressure vs. Time





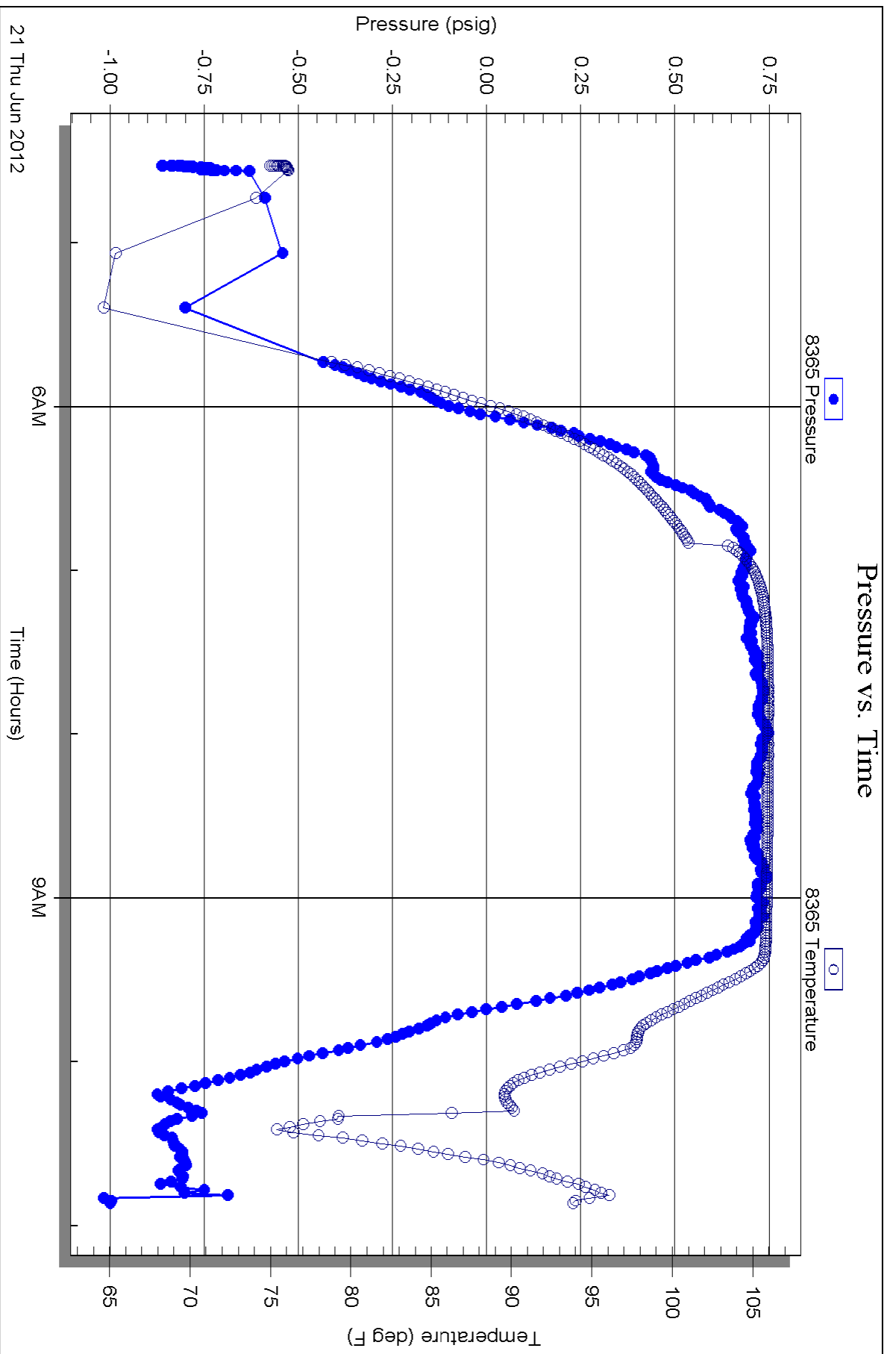
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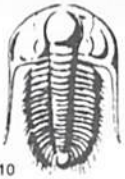
Fluid

Samuel Gary Jr & Associates, Inc.

Sandra Leas #2-25

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47405

4/10

Well Name & No. Sandra Leas 2-25 Test No. 1 Date 6-21-12
 Company Samuel Gary Jr. + Ass. Elevation 1804 KB 1794 GL
 Address 1515 Wynkoop St. Ste. 700 Denver, CO 80202
 Co. Rep / Geo. Chris Mitchell Rig U-16
 Location: Sec. 25 Twp. 15 Rge. 16 Co. Ellis State Kr

Interval Tested 3250-3312 Zone Tested LKC "J-K"
 Anchor Length 62 Drill Pipe Run 3249 Mud Wt. 9.0
 Top Packer Depth 3245 Drill Collars Run — Vis 52
 Bottom Packer Depth 3250 Wt. Pipe Run — WL 9.2
 Total Depth 3312 Chlorides 4300 ppm System LCM

Blow Description IIFP - sur blow - died 2 min
ISI - no blow back
FFP - no blow
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>drl mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 106 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1588</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>0342</u>
(B) First Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0431</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0650</u>
(D) Initial Shut-In <u>81</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0910</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1052</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>45RT</u> 139.50 x2	Comments <u>mileage to load</u>
(G) Final Shut-In <u>50</u>	<input checked="" type="checkbox"/> Sampler 250	<u>tools 6-22-12</u>
(H) Final Hydrostatic <u>1562</u>	<input type="checkbox"/> Straddle	<u>1524</u>

Initial Open 10
 Initial Shut-In 60
 Final Flow 10
 Final Shut-In 60

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 800
 Total 2864.50
 MP/DST Disc't

Sub Total 2064.50

Approved By _____ Our Representative Brian Fairbank

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 47405 Date 6-21-12
 Company Name Sam Gary
 Lease Sandra Lee 2-25 Test No. 1
 County Ellis Sec. 25 Twp. 15 Rng. 16

SAMPLER RECOVERY

Gas _____ ML
 Oil ~~4000~~ ML
 Mud 4000 ML
 Water _____ ML
 Other _____ ML
 Pressure 75 ML
 Total 4000 ML

PIT MUD ANALYSIS

Chlorides 4300 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 52
 Mud Weight 9.0
 Filtrate 9.2
 Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.



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

Well Name: SANDRA LEAS # 2-25
 Location: Sec 25 15s 16w, Ellis County, Kansas
 License Number: 15-051-26323-0000
 Spud Date: JUNE 16, 2012
 Surface Coordinates: 1730' Fnl & 1650' Fwl
 Region: Wildcat
 Drilling Completed: JUNE 21, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1794' K.B. Elevation (ft): 1804'
 Logged Interval (ft): 1700' To: 3520' Total Depth (ft): 3520'
 Formation: Lansing, Arbuckle
 Type of Drilling Fluid: Natural Chemical

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: Chris Mitchell

GEOLOGIST

Name: Tim Hedrick/ Darren Muse
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla. 73945
 Off. 888-543-8378 Cell- 580-754-0062

DST'S

DST#1 3250' - 3312' 10 60 10 60
 IF - SRFC BLO DIED IN 2 MIN./ ISI- NB/ FF- NB/ FSI-NB
 IH- 1588, FH-1562/ IF- 34 TO 35, FF- 35 TO 35/ ISI-81, FSI-50
 RECOVERED 2' DRILL MUD, BHT 106 DEG., PIT CHL- 4300
 SAMPLER 4000 ML MUD, 75 PSI, 4000 ML TOTAL

ROCK TYPES

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

ACCESSORIES

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- S Subrnd
- a Subang

- A Angular

OIL SHOWS

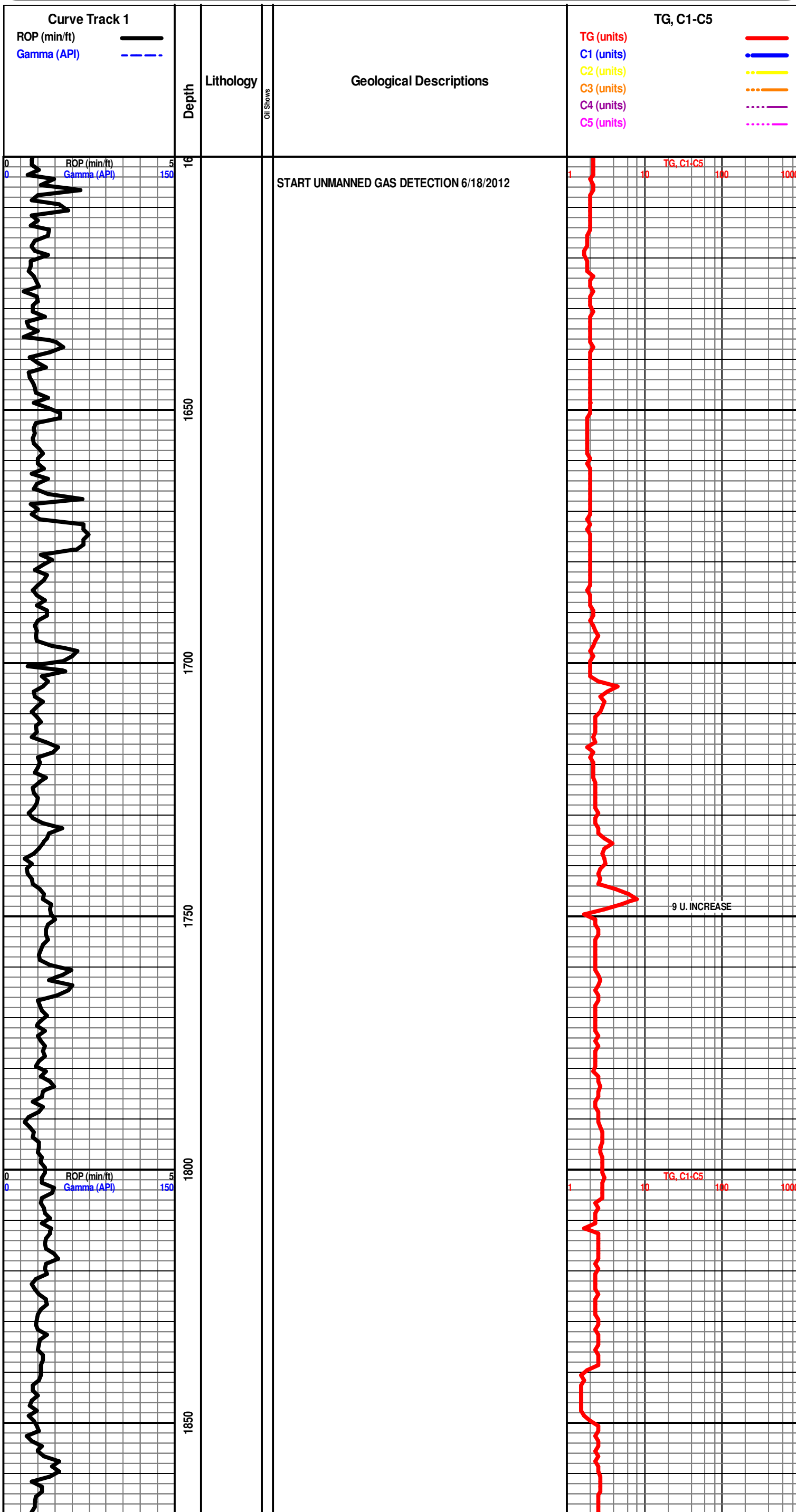
- E Even
- S Spotted
- Q Ques
- D Dead
- G Gas show

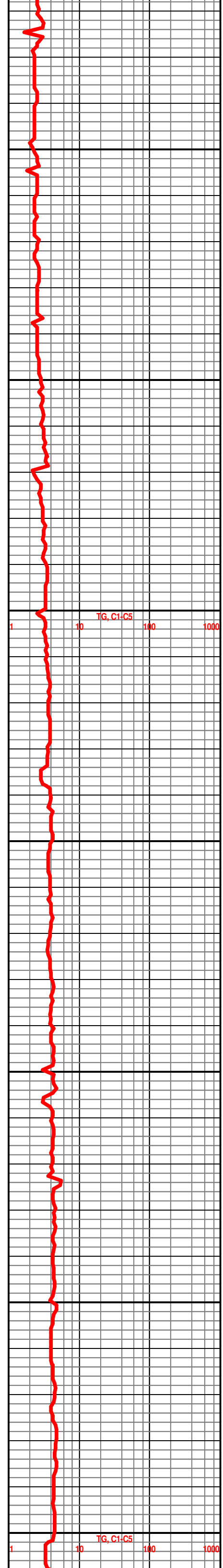
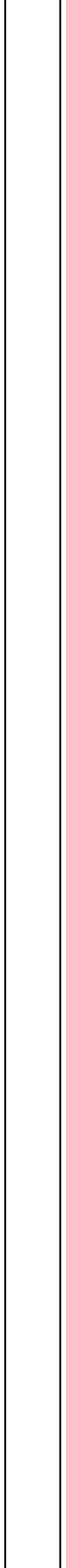
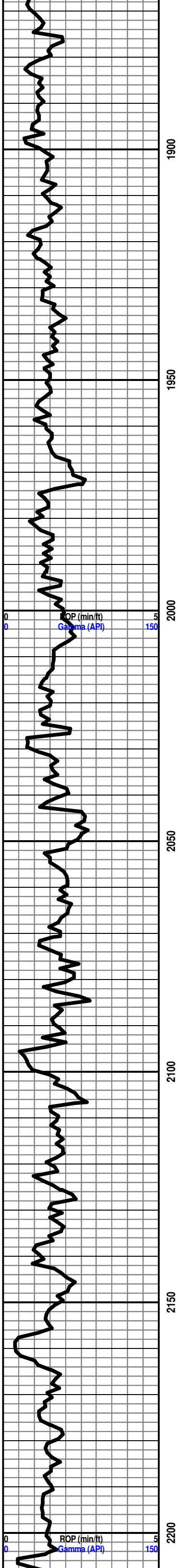
INTERVALS

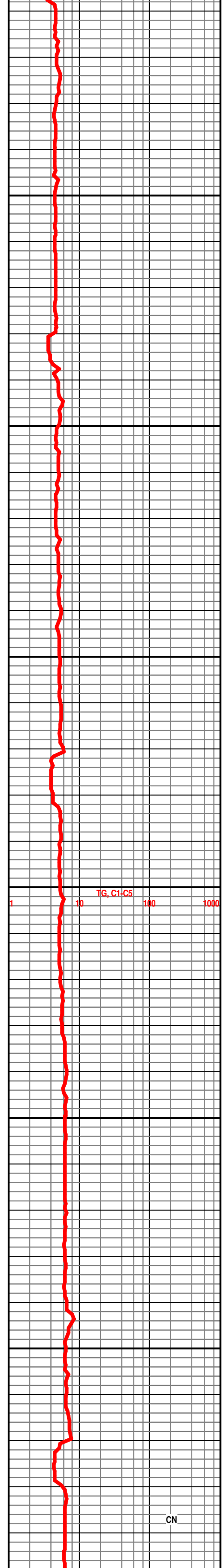
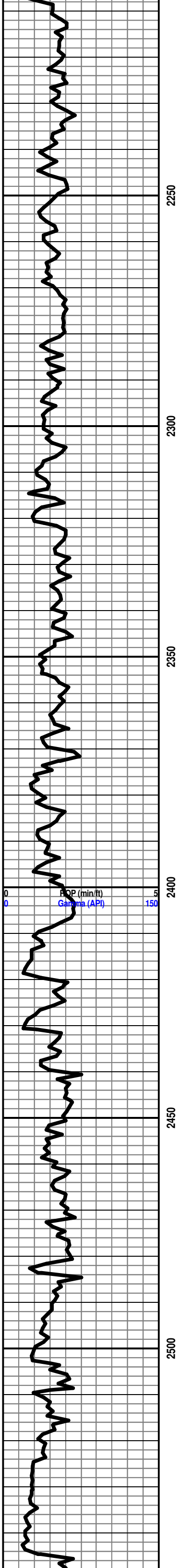
- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall

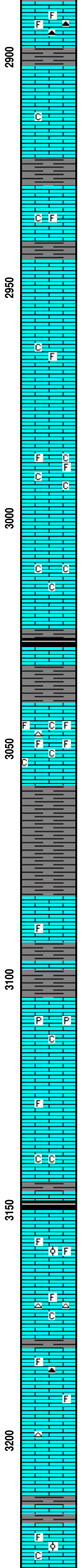
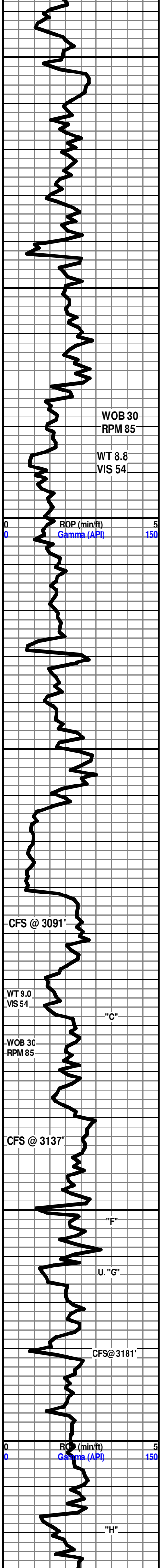






BRS 2543'-739'

CN



LS- CRM LT TN TO LT GY, HD DNS SLI BRITT V/TT SUCRO MTRX, FN XLN IP MOTT ABDT IMBD FOSS FRGS IP TR BLK CHRT, NO VIS FLO, NO VIS POR, NO VIS SHOW

Le COMPTON 2902'-1098'

LS- OFF WHT TO CRM LT TN, HD DNS TO TR BRITT, F-XLN TO MD XLN IP, TR IMBD SFT WHT CHLK, TR LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

SH- LT GRY TO GRY, FRM BLKY SMTH TXT,

LS-OFF WHT TO CRM LT GRY IP, HD DNS, MOTT MD-F-XLN RE-XLN IP, IMBD DISS SH IP, TR FOSS FRGS, TR WHT CHLK IP, NO FLO, NO VIS POR, NO SHOW

SH- LT TO MD GY TO DRK GY, FRM BLKY, SMTH TXT, CALC IP

LS-CRM LT TN TO OFF WHT, HD DNS IP TO BRITT, MD TO F-XLN TO SUCRO, SLI S-CHLKY IP, TR FREE FOSS, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

LS-CRM BUFF TO OFF WHT IP, HD DNS TO BRITT, F-XLN TO SUCRO S-CHLKY IP, HVY TR FREE FOSS, HVY TR ABDT SFT CHLK, NO FLO, NO VIS POR, NO VIS SHOW.

LS- OFF WHT TO CRM BUFF, MD HD TO SFT V/SUCRO S-CHLKY MTRX, HVY TR ABDT SFT WHT CHLK, NO FLO, NO VIS POR, NO SHOW

SH-BLK SFT CARB

HEEBNER 3026'-1222'

LS- OFF WHT TO WHT, HD DNS TO BRITT, MD TO F-XLN, RE-XLN MTRX, ABDT IMBD FOSS FRGS IP, SLI TR WHT CHRT, HVY TR WHT CHLK, LT BRIT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW.

DOUGLAS 3058'-1254'

SH- LT GRY TO GRY TO RED, FRM BLKY TO SFT SLTY TXT IP

LANSING 3082'-1278'

LS- CRM BUFF, HD DNS TO BRITT IP, MD TO F-XLN, SLI TR FOSS FRGS IP, SLI TR SFT WHT CHLK, NO FLO TO TR YEL MIN FLO, NO VIS POR, NO SHOW

LANSING "C" 3103'-1299'

LS- OFF WHT TO CRM BUFF, HD DNS IP TO MD HD, MD XLN TO SUCRO S-CHLKY ABDT IMBD DISS PYR IP, LT BRIT MN FLO IP, NO VIS POR, NO SHOW

LS- OFF WHT TO CRM BUFF, MD HD TO SFT IP, SUCRO TO S-CHLKY MTRX, MD XLN IP, TR PHNTM FOSS FRGS IP, TR DLL MIN FLO, NO VIS POR, NO SHOW

LS- OFF WHT CRM BUFF, HD DNS F-XLN TO MD XLN IP, HVY TR ABDT WHT CHLK, NO FLO, NO VIS POR, NO SHOW

LANSING "F" 3152'-1348'

LS-CRM BUFF, HD DNS TO BRITT, MD XLN, RE-XLN MTRX, ABDT IMBD FOSS FRGS, TR SMLL OOL, DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO WHT, FRM TO SFT, V/SUCRO S-CHLKY MTRX, TR SFT WHT CHLK IP, SLI TR PHNTM FOSS FRGS IP, V/V/DLL YEL FLO IP, NO VIS POR, NO SHOW

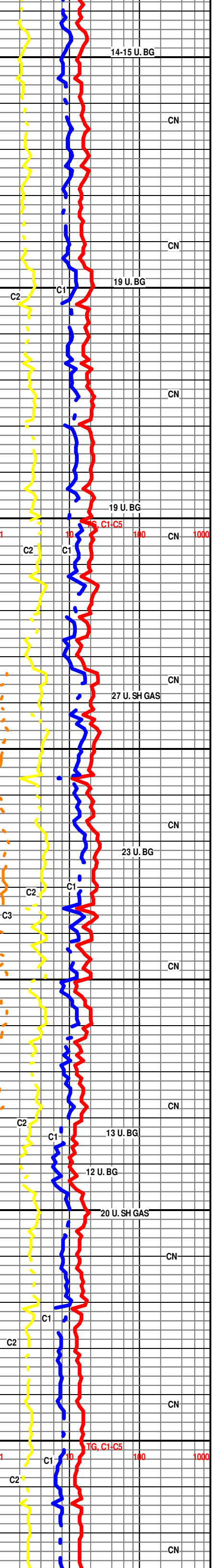
LS- CRM LT TN TO OFF WHT, HD DNS F-V/F-XLN IP TO HVY TR SFT WHT CHLK, TR LT TN CHRT, SLI TR FOSS, LT YEL MIN FLO 30%, NO VIS POR, NO SHOW

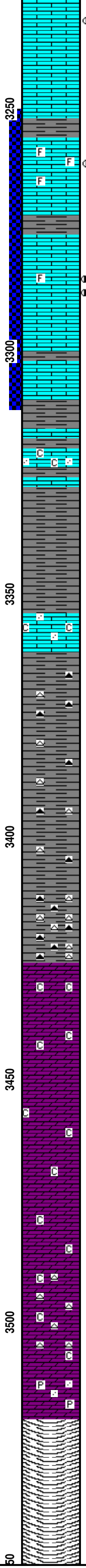
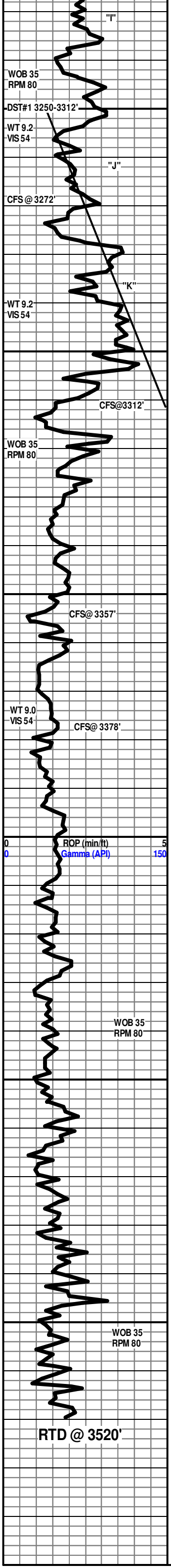
LS-OFF WHT TO CRM HD DNS, F-XLN TO V/TT SUCRO MTRX, TR WHT CHRT IP, TR LT YEL MN FLO IP, NO VIS POR, NO SHOW.

SH- LT GRN TO LT GRY, FRM BLKY SMTH TXT

LANSING "H" 3219'-1415'

LS-CRM LT TN LT GRY, MOTT HD DNS, MD TO F-XLN, TR SFT WHT CHLK IP, TR FOSS FRGS IP, TR SMLL OOL, NO FLO, NO VIS POR, NO SHOW





3230'-3233' LS-OFF WHT TO CRM LT TN DUE TO LT TN STN IN 40%, SPTD STN IN 20%, HD DNS TR BRITT F-XLN TO TT SUCRO MTRX SLI TR IMBD CHLK IP, SCAT IMBD CALC XLS IP, DLL YEL GLD FLO 30%, BRT YEL GLD FLO 20%, PR VIS INTER-XLN POR 20%, FR FLSH CUT 40%, TO GD SLO STRM CUT 50%, GD OIL ODOR, NO LCH ON DISH

3237-3242 LS- OFF WHT TO WHT, MD HD TO SFT, ABDT WHT SFT CHLK, TR FRM, NO FLO, NO VIS POR, NO SHOW

3258-3262 LS- OFF WHT CRM TN DUE TO SCAT LT TN STN IN 70%, TR DOS IN 10%, HD DNS TO TR BRITT, F-MD-XLN, RE-XLN MTRX, IMBD FOSS FRGS THRU, TR SCAT IMBD VRGTD CALC XLS, TR S-CHLKY IP, DLL YEL GLD FLO IN 50%, BRIT YEL GLD SPTD FLO IN 20%, NO FLO IN 30%, PR TO FR VIS INTER-FOSS POR IN 30%, TR PR SCAT MICRO VUG POR IP, FR FLSH CUT IN 40%, FR TO GD SLOW STRM CUT IN 50%, FR TO GD OIL ODOR, NO LCH ON DISH

3270-3272 SH- RED, V/ SFT GMMY

3284-3288' LS- OFF WHT CRM LT TN TN, DUE TO LT TN STN IN 50%, DK TN OIL STN IN 20%, HD DNS TO BRITT, IP, MD-F-XLN, RE-XLN MTRX, S-SUCRO IP, SLI TR S-CHLKY, TR FOSS FRGS IMBD IP, TR SCAT V/ SMLL CALC XLS IP, BRIT YEL GLD FLO IN 50%, DLL YEL GLD FLO IN 30%, PR TO FR SCAT MICROVUG POR IN 30%, GD VIS MICROVUG POR IN 10%, POS FRACT POR IP, FR TO GD FLSH CUT IN 60%, GD SLO STRM CUT IN 80%, NO ODOR, LT TN LCH ON DISH

BKC 3310' - 1506'

SH-RD TO GRN MOTT, FRM BLKY IP TO V/SFT GMMY TXT

LS-OFF WHT CRM LT GRY MOTT, HD DNS IP TO SFT, F-XLN TO TT SUCRO S-CHLKY MTRX, HVY TR SMLL ANG CLR QURTZ GRNS IP

SH- RD TO DRK RD GRY, FRM BLKY TO HD SPLNTY IP TO V/SFT GMMY

3354'-3356' LS- OFF WHT TO WHT ABDT V/SFT CHLK TR IMBD SMLL ANG QURTZ GRNS IP, NO FLO, NO VIS POR, NO SHOW

SH-RD TO DRK RD FRM BLKY TO SFT GMMY IP, TR GRNY TXT, W/ IMBD CLR TN CHRT

SH- DK RD TO RD, FRM BLKY GRNY TXT TO ABDT SFT GMMY W/ ABDT WHT BRN RD CLR CHRT

SH- DK RD TO RD, FRM BLKY GRNY TXT TO ABDT SFT GMMY W/ ABDT WHT BRN RD CLR CHRT

ARBUCKLE 3426' - 1622'

DOLO- WHT OFF WHT, HD DNS TO BRITT IP, V/CRS SUCRO MTX, ABDT IMBD ANG SMLL TO MD DOLO GRNS THRU, ABDT IMBD SFT WHT CHLK, LT BRIT YEL FLO THRU, PR TO FR VIS INTER XLN POR TO TR PR SCAT VUG POR, NO VIS SHOW

DOLO- WHT OFF WHT, HD DNS TO BRITT IP, V/CRS SUCRO MTX, ABDT IMBD ANG SMLL TO MD DOLO GRNS THRU, ABDT IMBD SFT WHT CHLK, LT BRIT YEL FLO THRU, PR TO FR VIS INTER XLN POR TO TR PR SCAT VUG POR, NO VIS SHOW

DOLO- OFF WHT TO CRM LT TN IP, HD DNS TO BRIT, F-XLN IP TO V/ CRS SUCRO MTX IP, ABDT IMBD SMLL TO MD ANG WHT DOLO GRNS IP, HVY TR ABDT SFT WHT CHLK, TR DISS PYR IP, LT BRIT YEL MIN FLO THRU, PR TO FR VIS INTER XLN POR IP TO NO POR, NO VIS CUT, NO VIS SHOW

DOLO- OFF WHT TO CRM LT TN IP, HD DNS TO BRIT, F-XLN IP TO V/ CRS SUCRO MTX IP, ABDT IMBD SMLL TO MD ANG WHT DOLO GRNS IP, HVY TR ABDT SFT WHT CHLK, ABDT WHT TO TN CHRT, TR IMBD GRN CLY IP, LT BRIT YEL MIN FLO THRU, PR TO FR VIS INTER XLN POR IP TO NO POR, NO VIS CUT, NO VIS SHOW

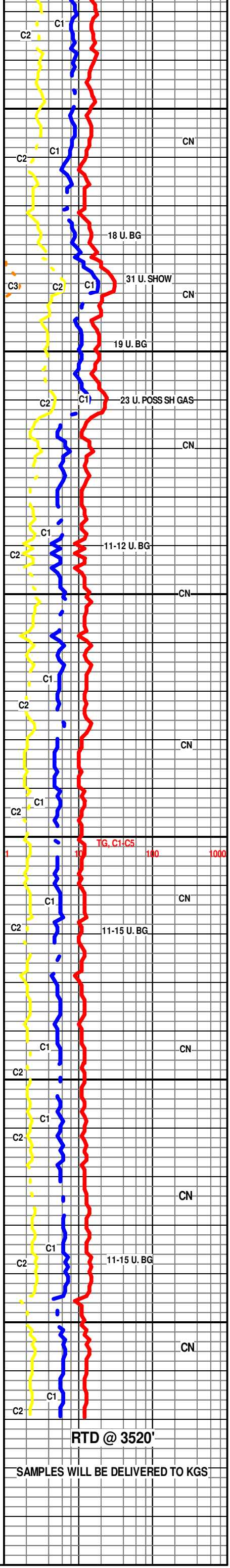
DOLO- WHT OFF WHT, HD DNS TO BRITT IP, V/CRS SUCRO MTX, ABDT IMBD ANG SMLL TO MD DOLO GRNS THRU, HVY TR IMBD SFT WHT CHLK, SCAT IMBD SMLL TO MD RND CLR QURTZ GRNS IP, TR PYR, LT BRIT YEL FLO THRU, PR TO FR VIS INTER XLN POR TO TR PR SCAT VUG POR, NO VIS SHOW

RTD @ 3520' @ 10:23 PM JUNE 21, 2012

CTCH 1.5 HRS

TOFL

WEATHERFORD/ LIBERAL



SAMPLES WILL BE DELIVERED TO KGS