



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1163503
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: _____



1163503

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	ARMBRUSTER 1-35
Doc ID	1163503

All Electric Logs Run

INDUCTION
MICRO
POR
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 17, 2013

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

Re: ACO1
API 15-195-22867-00-00
ARMBRUSTER 1-35
SE/4 Sec.35-12S-23W
Trego 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



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: 6/28/2013
 Invoice # 7961

P.O.#:

Due Date: 7/28/2013

Division: Russell

Invoice

RECEIVED

JUL 10 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

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

Reference:
 CAROL 1 - Armbuster 1-35

Description of Work:
 LONG SURFACE JOB

<input 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	<i>[Signature]</i>
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Baffle Plate Aluminum, 8 5/8"	1	\$97.71	Yes
Common-Class A	450	\$ 6,126.69	Yes				
Bulk Truck Mat-Material Service Charge	475	\$ 1,031.43	No				
Calcium Chloride	16	\$ 827.92	Yes				
8 5/8" Basket	2	\$ 686.17	Yes				
Pump Truck Mileage-Job to Nearest Camp	32	\$ 346.73	No				
Flo Seal	112	\$ 243.20	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	32	\$ 202.90	No				
Premium Gel (Bentonite)	9	\$ 159.08	Yes				
8 5/8" Centralizer	2	\$ 138.97	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				

Invoice Terms:

Net 30

SubTotal:	\$ 10,967.28
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (1,645.09)
SubTotal for Taxable Items:	\$ 7,135.61
SubTotal for Non-Taxable Items:	\$ 2,186.58
Total:	\$ 9,322.19
Tax:	\$ 485.22
Amount Due:	\$ 9,807.41
Applied Payments:	
Balance Due:	\$ 9,807.41

6.80% Trego County Sales Tax

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. 7961

Date	6-28-13	Sec.	35	Twp.	12	Range	23	County	Trego	State	KS	On Location		Finish	1:00pm.
Lease								Well No.		Owner					
Armbruster								1-35		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.					
Contractor										Type Job					
Discover #4										Surface					
Hole Size				T.D.				Charge To							
12 1/4				945				Sam Coar/ J. & Assoc.							
Csg.				Depth				Street							
8 5/8				945											
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				Cement Amount Ordered							
42.86								4.50 com 3 1/2 U 2 1/2 L							
Meas Line				Displace											
				57 1/2 BCL				450							
EQUIPMENT								Common							
								450							
Pumptrk				No.				Cement							
1								Helper							
Bulktrk				No.				Driver							
								Gel.							
Bulktrk				No.				Driver							
12								Calcium							
								16							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
								112 #							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
8 5/8 on bottom - Est. Circulation.								Handling							
Mix 450 SMC & Displace Plug								475							
Plug landed @ 800#. Shut in								Mileage							
500#.								FLOAT EQUIPMENT							
Cement Circulated!								Guide Shoe							
								8 5/8							
								Centralizer							
								2							
								Baskets							
								2							
								AFU Inserts							
								Rubber Plug							
								Float Shoe							
								Battle Plate							
								Latch Down							
								Pumptrk Charge							
								Long Surface							
								Mileage							
								32							
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: 7/6/2013
 Invoice # 7411

P.O.#:
 Due Date: 8/5/2013
 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

JUL 12 2013

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

DRLG COMP W/O LOE GG

Account	8300.238
Well/Prospect	
Deck	
AFE	
Approval	AG
Description	

Reference:
~~FUZIKA 142~~ *Armbruster 135*

Description of Work:
 PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Defoamer A or CAF-38	50	\$380.00	Yes
Common-Class A	275	\$ 3,744.09	Yes	Auto Fill Float Shoe, 5 1/2"	1	\$332.23	Yes
Cement Port Collar, 5 1/2"	1	\$ 2,714.29	Yes	Pump Truck Mileage-Job to Nearest Camp	32	\$346.73	No
Gilsonite	1057	\$ 1,721.40	Yes	Salt (Fine)	19	\$287.97	Yes
5 1/2" Triplex Shoe	1	\$ 1,259.43	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$243.20	Yes
5 1/2" Basket	5	\$ 1,248.57	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	32	\$202.90	No
CFL 117	176	\$ 1,177.09	Yes	Flo Seal	56	\$121.60	Yes
5 1/2" Turbolizer	10	\$ 629.71	Yes	Rotating Head (4 1/2", 5 1/2", or 2 7/8")	1	\$39.09	No
Bulk Truck Matl-Material Service Charge	305	\$ 662.29	No				
CD-110	117	\$ 508.11	Yes				
Mud Clear	500	\$ 401.71	Yes				

Invoice Terms:

Net 30
 SubTotal: \$ 17,011.80
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (2,551.77)

SubTotal for Taxable Items:	\$ 12,553.99
SubTotal for Non-Taxable Items:	\$ 1,906.03
Total:	\$ 14,460.03
Tax:	\$ 853.67

6.80% Trego County Sales Tax

Thank You For Your Business!

Amount Due: \$ 15,313.70
Applied Payments:
Balance Due: \$ 15,313.70

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. 7411

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-6-13	35	12	23	Trego	KS		3:00 AM
				Location <u>Ogallah & Old 40 w to 280 Rd, 55, w n 2</u>			

Lease <u>Armbruster</u>	Well No. <u>1-35</u>	Owner
Contractor <u>Discovery 4</u>		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 <u>long string</u>		
Hole Size <u>7 7/8</u>	T.D. <u>4495</u>	Charge To <u>Sam Gary J & Associates</u>
Csg. <u>5 1/2 15 1/2</u>	Depth <u>4044.03</u>	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. <u>42.44</u>	Shoe Joint <u>42.44</u>	Cement Amount Ordered <u>275sx Q pro-c 10% salt</u>
Meas Line	Displace <u>95.24661</u>	<u>5% Gilconite 1/4 flow, 20 bbl KCL 3% CD 110</u>

EQUIPMENT

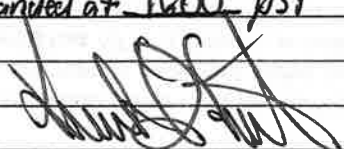
Pumptrk <u>15</u> No.	Cementer Helper <u>Nick</u>	Common <u>275</u>
Bulktrk <u>19</u> No.	Driver <u>David</u>	Poz. Mix <u>.50% CAF-38</u>
Bulktrk <u>PU</u> No.	Driver <u>Travis</u>	<u>.8% CFL-117</u>

JOB SERVICES & REMARKS

Remarks:	Hulls <u>CD-110 117#</u>
Rat Hole <u>30sx</u>	Salt <u>19</u>
Mouse Hole <u>15sx</u>	Flowseal <u>56#</u>
Centralizers <u>1, 3, 5, 7, 9, 11, 13, 15, 53, 71</u>	Kol-Seal <u>1057#</u>
Baskets <u>4, 10, 16, 56, 70</u>	Mud CLR 48 <u>500 gal</u>
D/V or Port Collar <u>Top of #54 at 1803</u>	<u>CFL-117 or CD110 CAF 38 - 50#</u>
<u>Pumped 50sx plug at 4320 pulled out to 4100 and circulated hole clean.</u>	Sand <u>176#</u>
<u>Pipe on bottom broke circulation shut down dropped ball and set tri-plex pumped 500 gal Mud CLR-48 with 10bbl fw behind it. Plug Rat hole with 30sx and Mouse Hole with 15sx. Hooked to 5/2 and mixed 180sx shut down washed pump and lines released plug and displaced with 20bbl KCL and 25bbl fw plug landed and held.</u>	Handling <u>305</u>
<u>lift pressure 700 psi</u>	Mileage

FLOAT EQUIPMENT

<u>lift pressure 700 psi</u>	Guide Shoe
<u>Plug landed at 1600 psi</u>	Centralizer <u>10 turbos</u>
	Baskets <u>5 weatherford</u>
	AFU Inserts
	Float Shoe
	Latch Down <u>1 with plug</u>
	<u>1 Port Collar</u>
	<u>1 Tri-Plex shoe with ball</u>
	Pumptrk Charge <u>pro-c long string</u>
	Mileage <u>32</u>

X Signature 

Tax
Discount
Total Charge

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. 7421

Date	7-17-13	Sec.	Twp.	Range	County	State	On Location	Finish
					Trego	KS		2:30 PM
Lease					Location			
A RMBruster ✓ Armbruster					wakeeney 1st Exit 35, 1E, 1/2S, Wn 2			
Well No. 1-35					Owner			
Contractor D.S. & W.					To Quality Oilwell Cementing, Inc.			
Type Job Port collar					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					Charge To			
T.D.					Sam Gary Jr + Associates			
Csg. 5 1/2					Street			
Tbg. Size 2 7/8					City			
Tool					State			
Cement Left in Csg.					The above was done to satisfaction and supervision of owner agent or contractor.			
Shoe Joint					Cement Amount Ordered 300 5x OMDC 1/4 flow.			
Meas Line					25x gell. used 260			
Displace					Common 2			
EQUIPMENT								
Pumptrk 16 No. Cementer					Poz. Mix			
Helper Lonnie W.								
Bulktrk 13 No. Driver					Gel. 260			
Heath								
Bulktrk PU No. Driver					Calcium			
Travis								
JOB SERVICES & REMARKS					Hulls			
Remarks:					Salt			
Rat Hole					Flowseal 75#			
Mouse Hole					Kol-Seal			
Centralizers					Mud CLR 48			
Baskets					CFL-117 or CD110 CAF 38			
D/V or Port Collar Port Collar at 1803					Sand			
Pressured up tools to 800psi opened port collar mix 2 5x gell and 275 5x OMDC 1/4 flow. closed Port collar tested to 800psi ran 6 joints and washed clean					Handling 300			
					Mileage			
					FLOAT EQUIPMENT			
					Guide Shoe			
					Centralizer			
					Baskets			
					AFU inserts			
					Float Shoe			
					Latch Down			
					Pumptrk Charge port collar Tab			
					Mileage 32			
					Tax			
					Discount			
					Total Charge			
X Signature Jesse Dinkel								



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr&Assoc Inc
 1515 Wynkoop
 Ste.700
 Denver Co 80202
 ATTN: Clayton Camoozi

35-12s-23w Trego

Armbruster #1-35

Job Ticket: 54252

DST#: 1

Test Start: 2013.07.02 @ 13:25:50

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:15:15
 Time Test Ended: 20:40:44
 Interval: **3753.00 ft (KB) To 3770.00 ft (KB) (TVD)**
 Total Depth: 3770.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2341.00 ft (KB)
 2333.00 ft (CF)
 KB to GR/CF: 8.00 ft

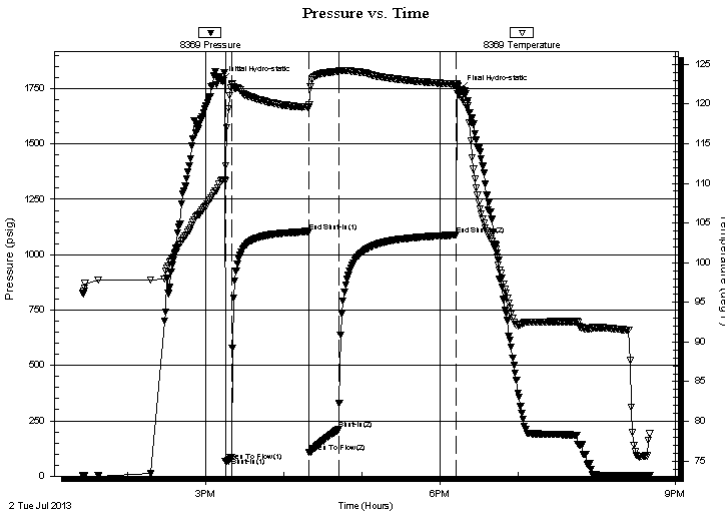
Serial #: 8369

Inside

Press @ Run Depth: 212.08 psig @ 3754.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.02 End Date: 2013.07.02 Last Calib.: 2013.07.02
 Start Time: 13:25:50 End Time: 20:40:44 Time On Btm: 2013.07.02 @ 15:12:45
 Time Off Btm: 2013.07.02 @ 18:14:44

TEST COMMENT: 5-IFP-strg bl in 4 min
 60-ISIP-surface bl bk
 20-FFP-strg bl in 4min
 90-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1784.59	110.39	Initial Hydro-static
3	66.63	110.33	Open To Flow (1)
8	84.52	122.39	Shut-In(1)
67	1103.28	119.59	End Shut-In(1)
67	107.65	119.93	Open To Flow (2)
90	212.08	124.10	Shut-In(2)
180	1088.77	122.49	End Shut-In(2)
182	1745.81	120.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	255'GIP	0.00
245.00	Water	3.16
90.00	HOCWM 15%O40%W45%M	1.26
85.00	CO	1.19

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr&Assoc Inc

35-12s-23w Trego

1515 Wynkoop
Ste.700
Denver Co 80202
ATTN: Clayton Camoozi

Armbruster #1-35

Job Ticket: 54252

DST#: 1

Test Start: 2013.07.02 @ 13:25:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

66000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	255'GIP	0.000
245.00	Water	3.163
90.00	HOCWM 15%O40%W45%M	1.262
85.00	CO	1.192

Total Length: 420.00 ft Total Volume: 5.617 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

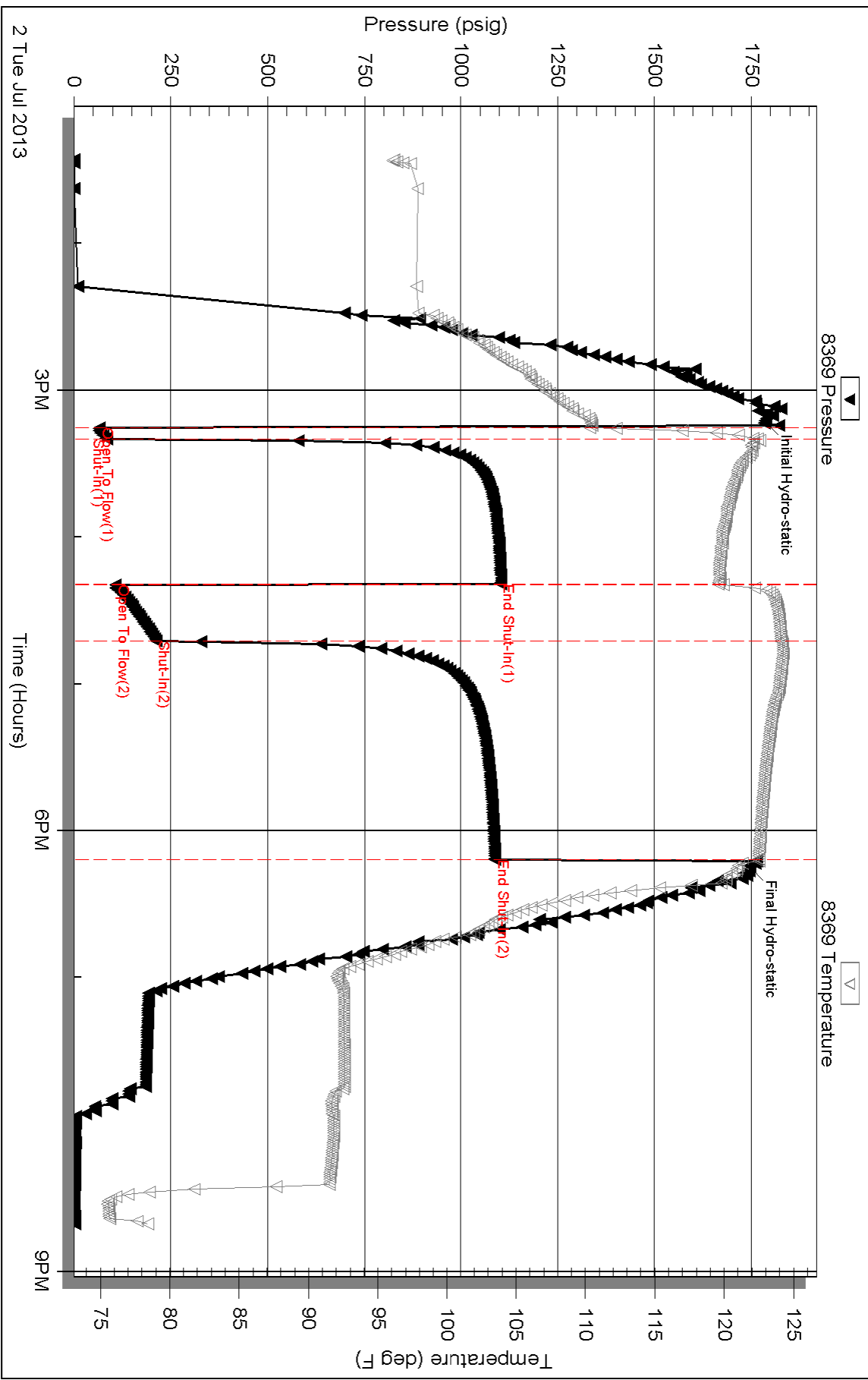
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .1 @ 80F

Pressure vs. Time



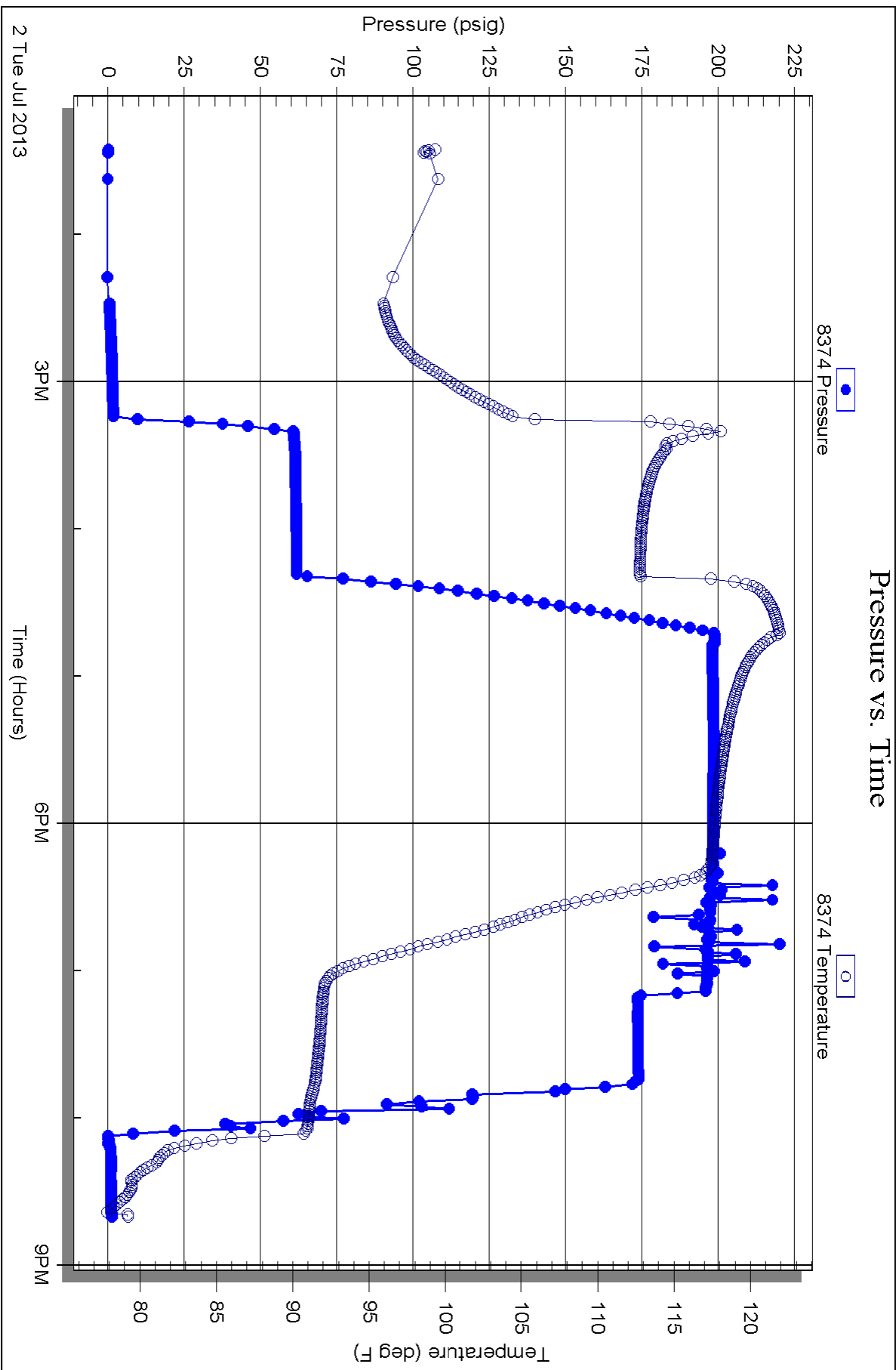
Serial #: 8374

Fluid

Samuel Gary Jr&Assoc Inc

Arnbruster #1-35

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr&Assoc Inc
 1515 Wynkoop
 Ste.700
 Denver Co 80202
 ATTN: Clayton Camoozi

35-12s-23w Trego

Armbruster #1-35

Job Ticket: 54253

DST#: 2

Test Start: 2013.07.03 @ 15:45:35

GENERAL INFORMATION:

Formation: **LKC I-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:24:00
 Time Test Ended: 21:48:14
 Interval: **3874.00 ft (KB) To 3896.00 ft (KB) (TVD)**
 Total Depth: 3896.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2341.00 ft (KB)
 2333.00 ft (CF)
 KB to GR/CF: 8.00 ft

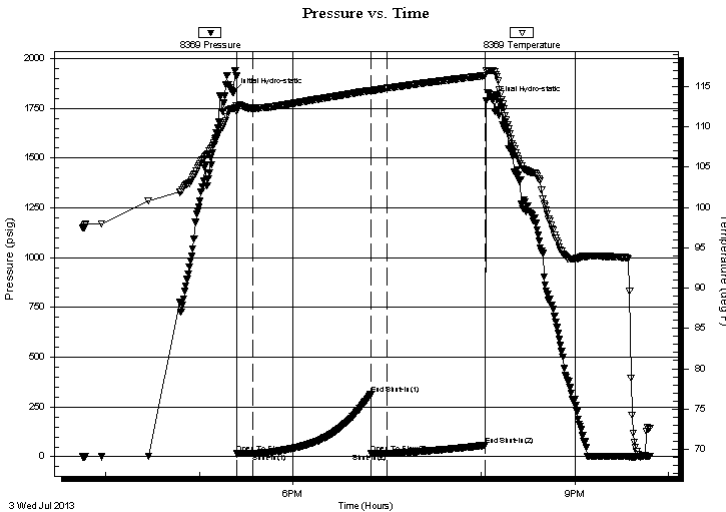
Serial #: 8369

Inside

Press @ Run Depth: 16.67 psig @ 3875.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.03 End Date: 2013.07.03 Last Calib.: 2013.07.03
 Start Time: 15:45:35 End Time: 21:48:14 Time On Btm: 2013.07.03 @ 17:22:00
 Time Off Btm: 2013.07.03 @ 20:07:44

TEST COMMENT: 10-IFP-vy w k surface bl
 75-ISIP-no bl
 10-FFP-no bl
 60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.40	112.28	Initial Hydro-static
2	15.60	111.94	Open To Flow (1)
13	18.02	112.32	Shut-In(1)
88	311.88	114.53	End Shut-In(1)
88	17.91	114.46	Open To Flow (2)
99	16.67	114.81	Shut-In(2)
161	58.12	116.38	End Shut-In(2)
166	1790.66	116.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	SOCM 1%O99%M	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr&Assoc Inc

35-12s-23w Trego

1515 Wynkoop
Ste.700
Denver Co 80202
ATTN: Clayton Camoozi

Armbruster #1-35

Job Ticket: 54253

DST#: 2

Test Start: 2013.07.03 @ 15:45:35

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	SOCM 1%O99%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

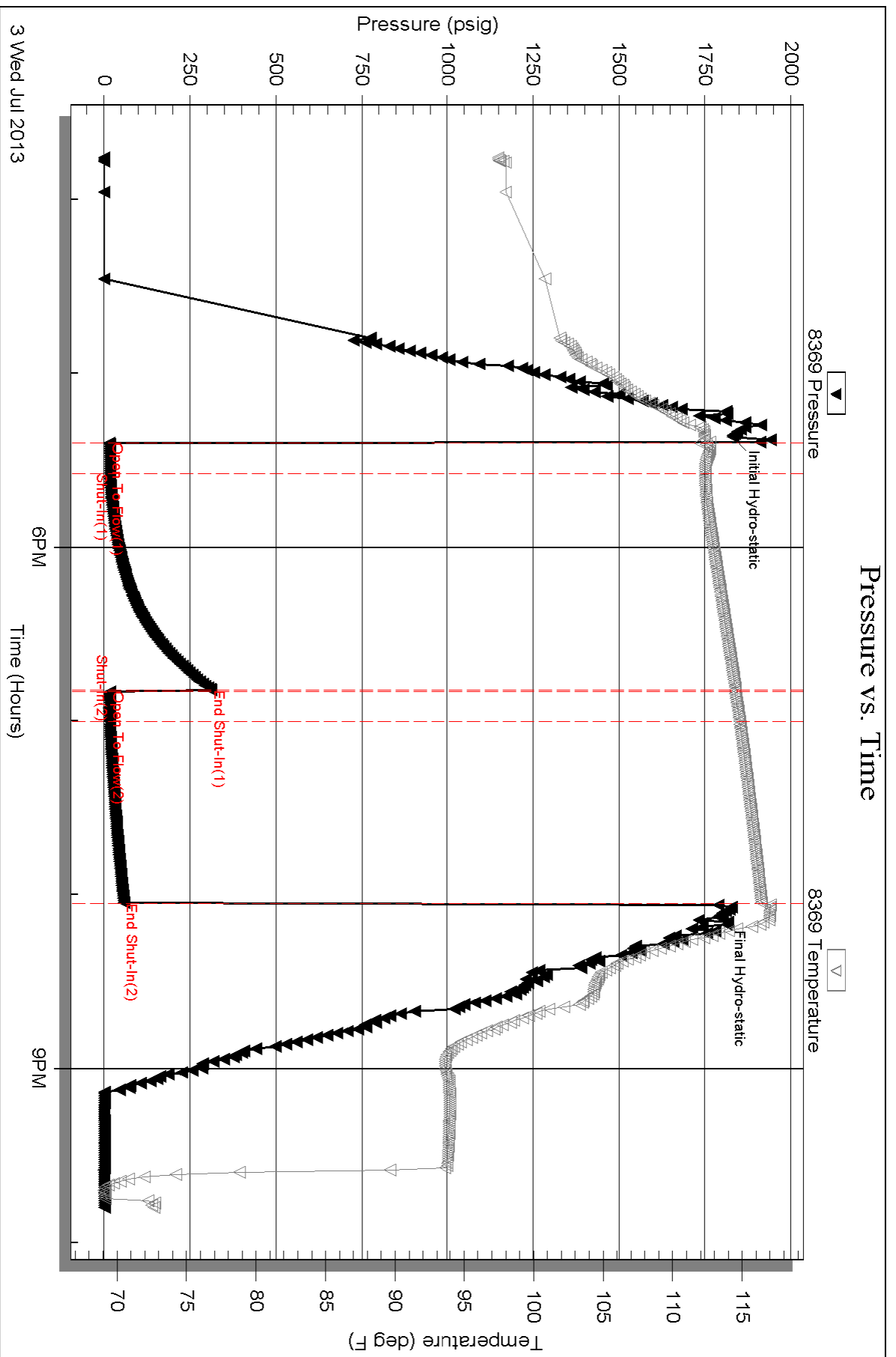
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI :50# 10ML oil 490 ML mud



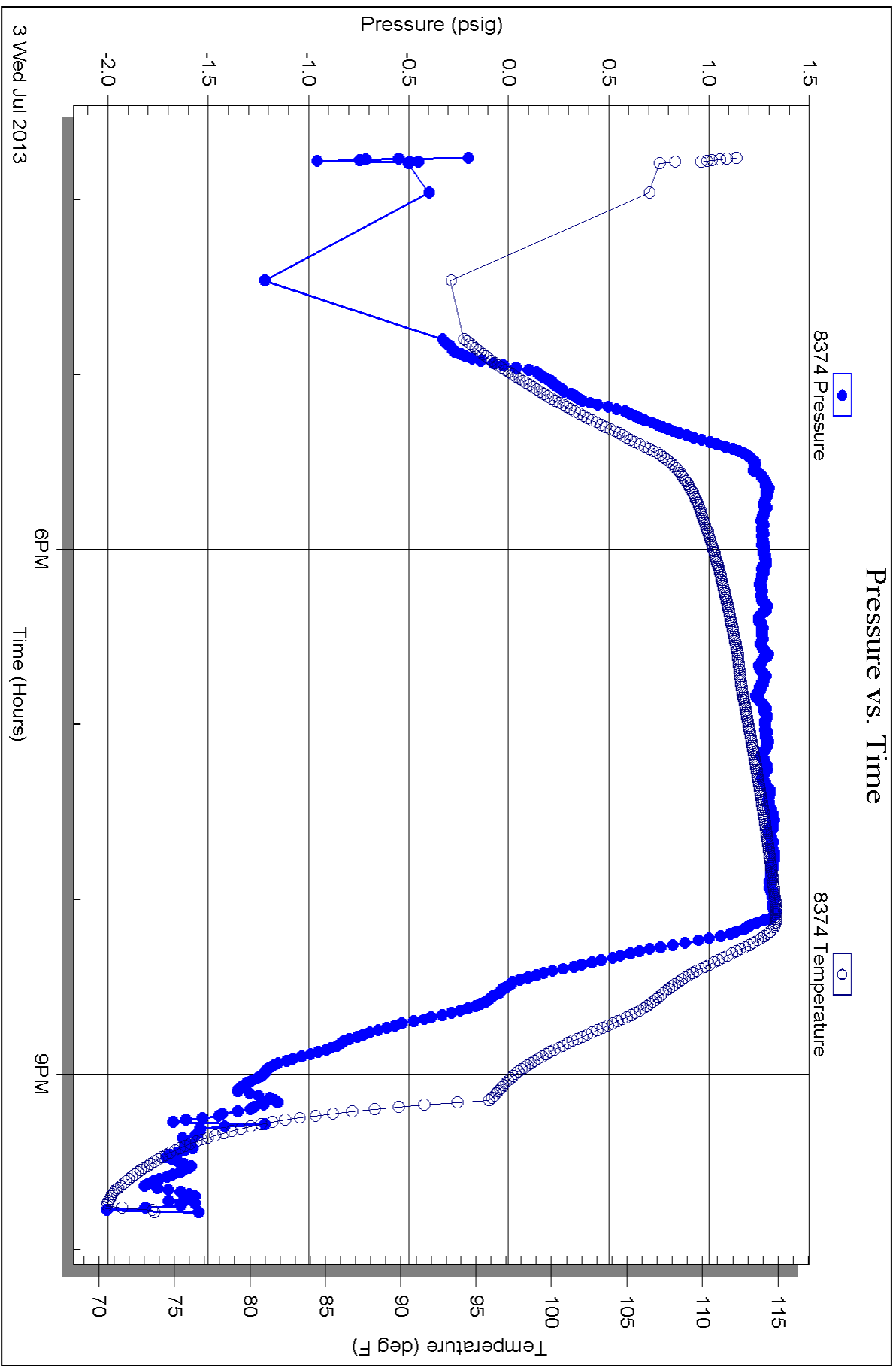
Serial #: 8374

Fluid

Samuel Gary Jr&Assoc Inc

Arnbruster #1-35

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54253

Printed: 2013.07.04 @ 23:03:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr&Assoc Inc
 1515 Wynkoop
 Ste.700
 Denver Co 80202
 ATTN: Clayton Camoozi

35-12s-23w Trego

Armbruster #1-35

Job Ticket: 54254

DST#: 3

Test Start: 2013.07.04 @ 20:15:12

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:54:52

Time Test Ended: 02:49:06

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 4076.00 ft (KB) To 4115.00 ft (KB) (TVD)

Total Depth: 4115.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2341.00 ft (KB)

2333.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8369 Inside

Press @ Run Depth: 22.59 psig @ 4089.00 ft (KB)

Start Date: 2013.07.04

End Date:

2013.07.05

Start Time: 20:15:12

End Time:

02:49:06

Capacity: 8000.00 psig

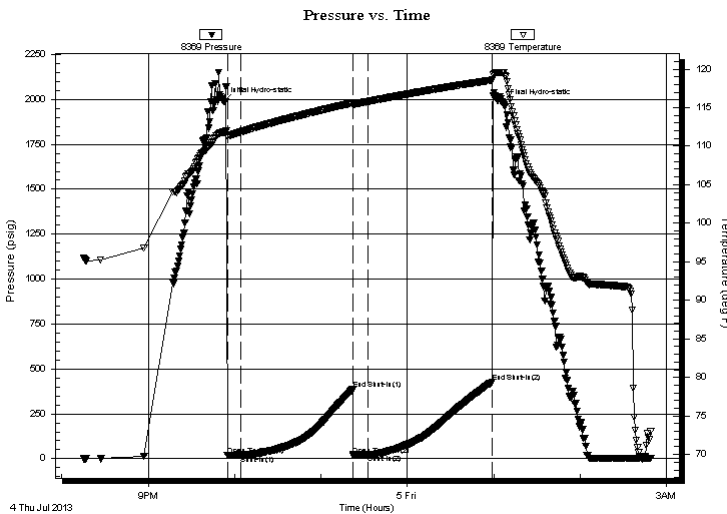
Last Calib.: 2013.07.05

Time On Btm: 2013.07.04 @ 21:52:37

Time Off Btm: 2013.07.05 @ 01:06:21

TEST COMMENT: 10-IFP-w k surface bl
 75-ISIP-no bl
 10-FFP-no bl
 60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.66	111.82	Initial Hydro-static
3	19.43	111.19	Open To Flow (1)
12	21.59	111.85	Shut-In(1)
90	384.80	115.59	End Shut-In(1)
90	20.44	115.44	Open To Flow (2)
100	22.59	115.78	Shut-In(2)
187	427.92	118.56	End Shut-In(2)
194	1974.41	119.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	SOCM 2%O98%M	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr&Assoc Inc

35-12s-23w Trego

1515 Wynkoop
Ste.700
Denver Co 80202
ATTN: Clayton Camoozi

Armbruster #1-35

Job Ticket: 54254

DST#: 3

Test Start: 2013.07.04 @ 20:15:12

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 67.00 sec/qt

Water Loss: 8.75 in³

Resistivity: ohm.m

Salinity: 4000.00 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
2.00	SOCM 2% O98%M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 100# 80 ML oil 1000MLmud

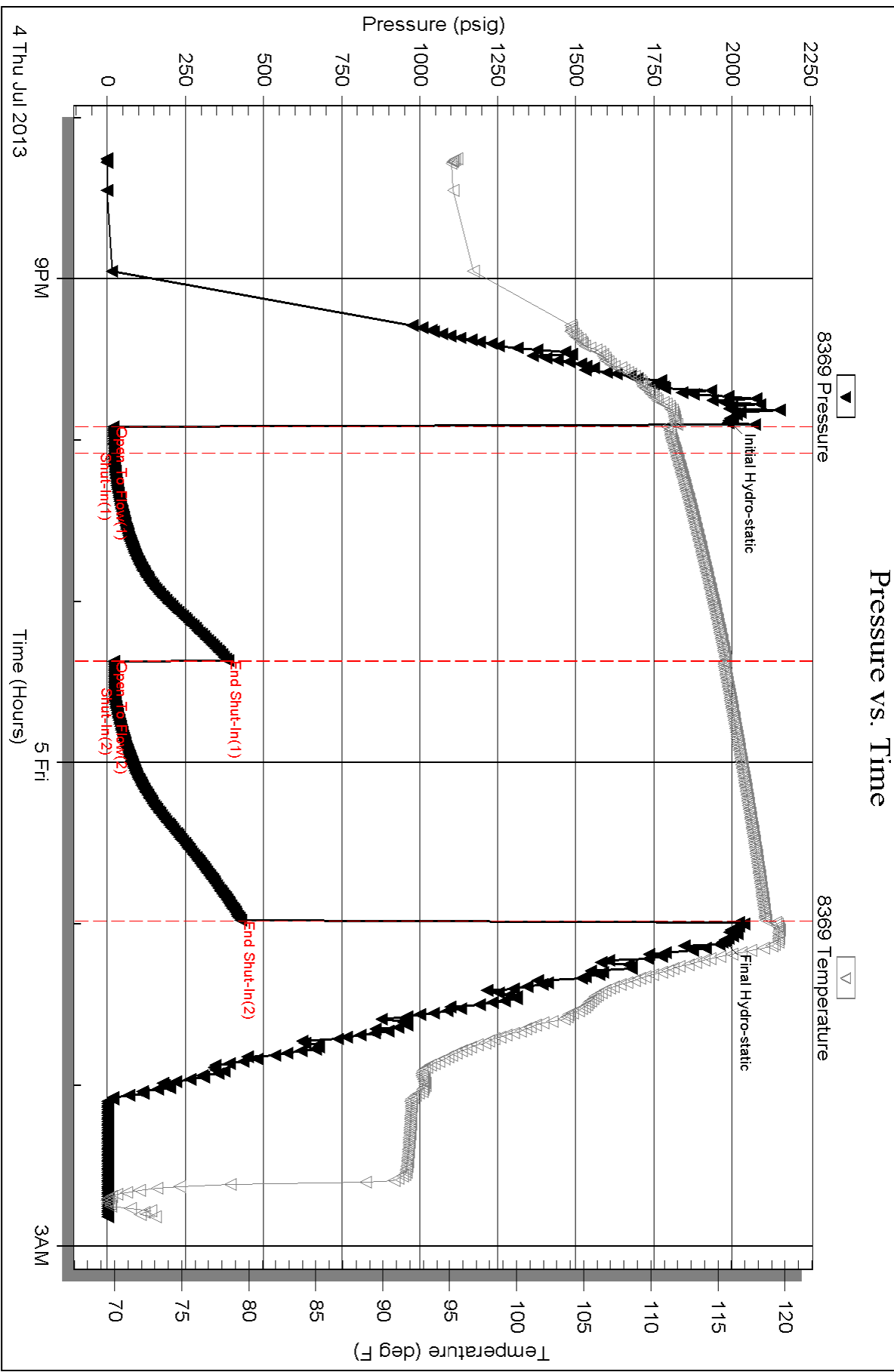
Serial #: 8369

Inside

Samuel Gary Jr & Assoc Inc

Armbruster #1-35

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54254

Printed: 2013.07.05 @ 05:56:13



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

Well Name: ARMBRUSTER # 1-35
 Location: Sec 35 12s 23w, Trego County, Kansas
 License Number: 15-195-22867
 Spud Date: June 28th, 2013
 Surface Coordinates: 2450' Fsl & 1630' Fel
 Region: Wildcat
 Drilling Completed: July 06,2013

Bottom Hole Coordinates:
 Ground Elevation (ft): 2333' K.B. Elevation (ft): 2341'
 Logged Interval (ft): 3400' To: 4495' Total Depth (ft): 4495'
 Formation: Lansing
 Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: Sam Gar Jr. & Associates
 Address: 1515 Wynkoop, Ste. # 700
 Denver, Co. 80202
 Co. Geo: Clayton Camozzi

GEOLOGIST

Name: Tim Hedrick
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla. 73945
 1-(888)- 543-8378 Cell-(580)-754-0062

DST's Report

DST#1 3753-3770 5 60 20 90
 IF-BOB 4 MIN/ISI- SRFC BLOW THRU/FF-BOB 4 MIN./FSI-SRFC BLO/ IH-1784, FH-1745/ IF 66-84,
 FF-107-212/ ISI-1103, FSI-1088
 RECOVERED-255' GIP/ 420' TF/ 85' C.O, 90' HOCMW,15%O.,40%W.,45% M./245' W./ 28 GRAVITY RW=.1@80
 DEG./ CHL-66000, PIT CHL-3000 / BHT 122 DEG.

DST's Report

DST#2 3874-3896 10 75 10 60
 IF-WK SRFC BLO/ ISI-NB/ FF- NB/ FSI- NB
 IH-1831, FH-1790/ IF-15 TO 18, FF17 TO 16/ ISI-311, FSI-58
 RECOVERED 1' SOCM, 1%O., 99% M./ BHT 116 DEG.
 SAMPLER 10 ML OIL, 490 ML MUD, 50PSI, 500 ML TOTAL

DST's Report

DST#3 4076'-4115' 10 75 10 90
 IF- WK SRFC BLO/ISI-NB /FF- NB / FS- NB
 IH-1988, FH-1974/ IF-19 TO 21, FF-20 TO 22/ISI- 384,FSI-427
 RECOVERY-2' SOCM , 2% OIL, 98% MUD
 SAMPLER-80 ML OIL,1000 ML MUD, 100 PSI, 1080 ML TOTAL
 PIT CHL-4000,

ROCK TYPES

Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal
 Congl
 Dol

Gyp
 Igne
 Lmst
 Meta
 Mrlst
 Salt
 Shale
 Shcol

Shgy
 Sltst
 Ss
 Till
 Carb sh
 Dol
 Dtd
 Gry sh

Sandylms
 Shale
 Sltstn
 Shlyslts
 Sltysl
 Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- 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
- Slty

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
- Sandyms
- 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

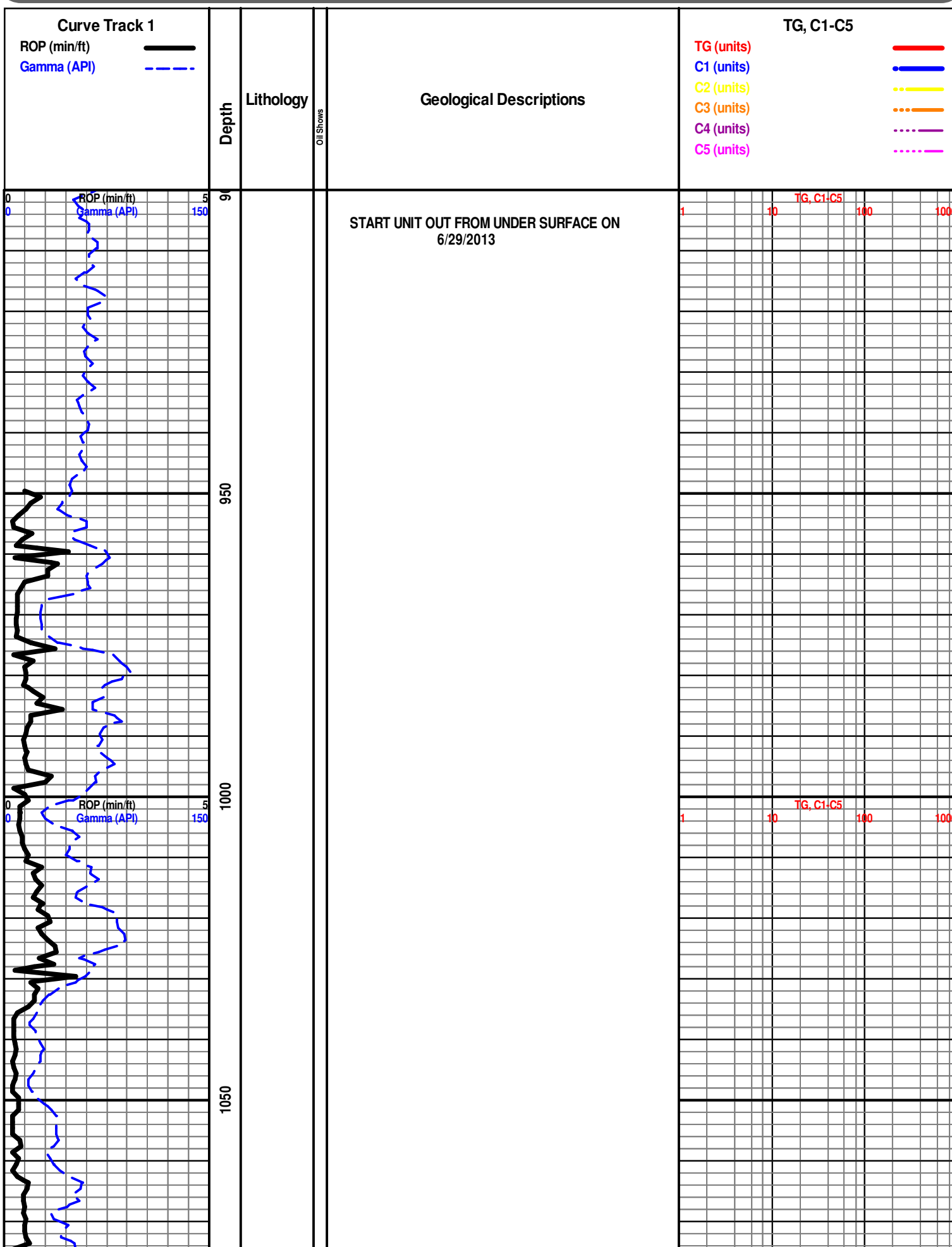
- Even
- Spotted
- Ques
- Dead
- Gas show

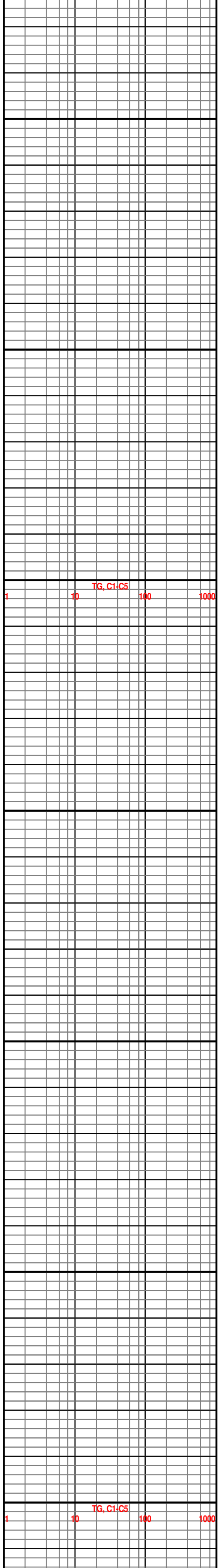
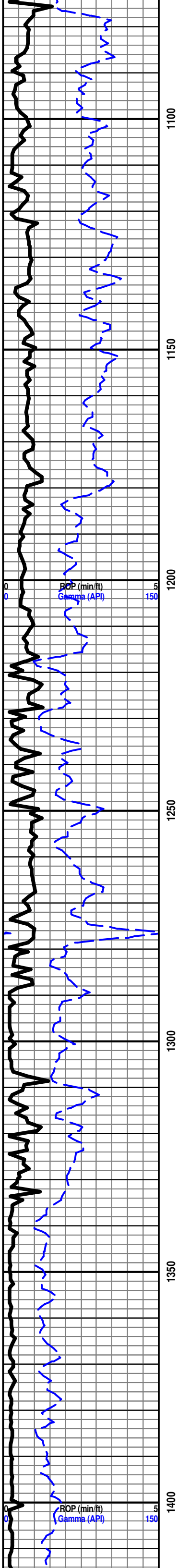
INTERVALS

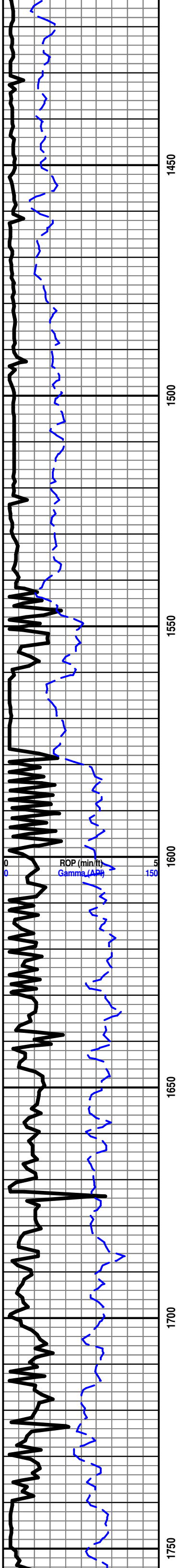
- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall







1450

1500

1550

1600

1650

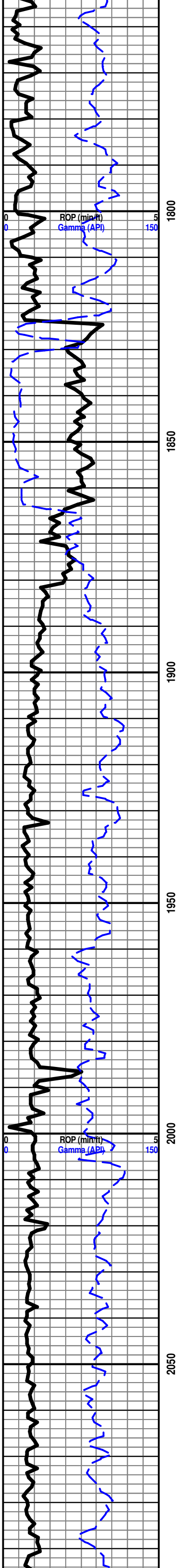
1700

1750

ROP (min/ft)
Gamma (API)

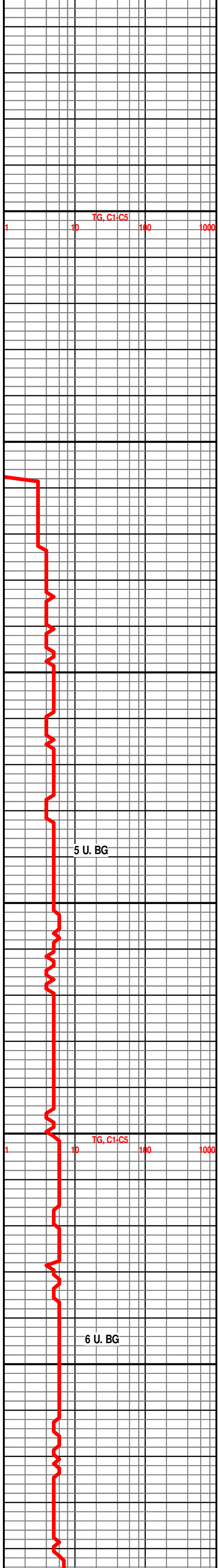
150

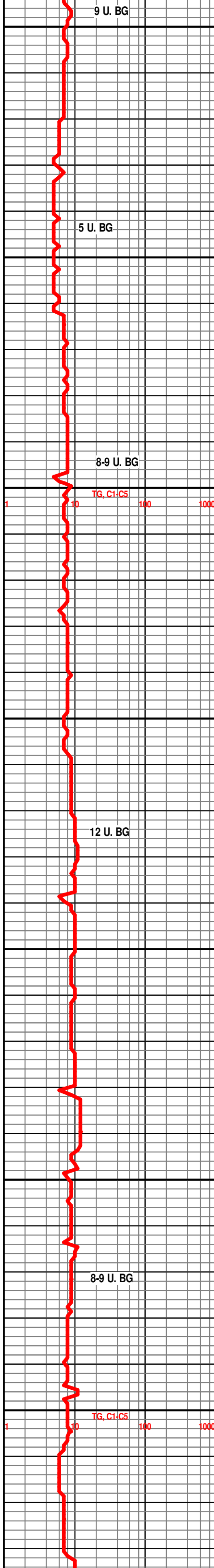
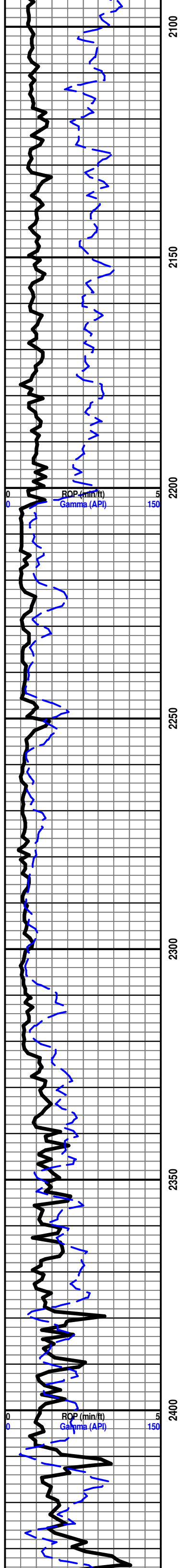
1 10 TG, C1-C5 100 1000

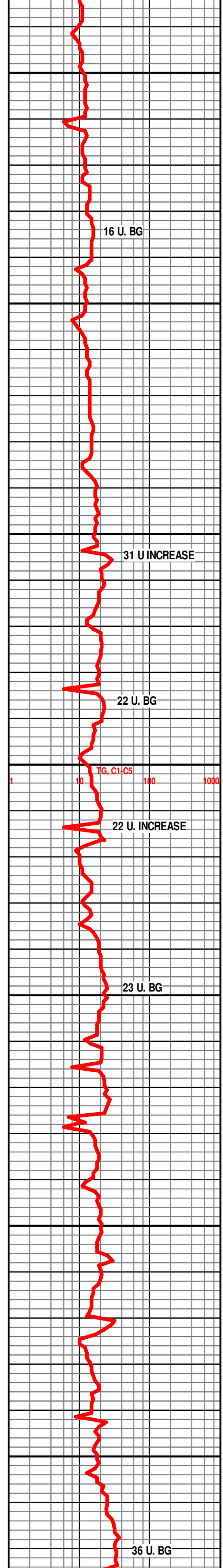
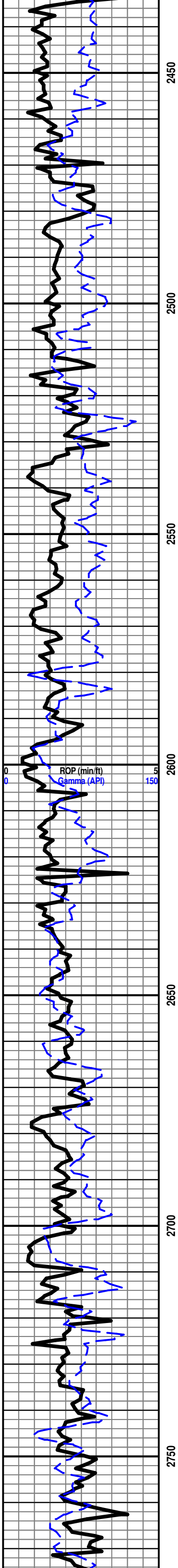


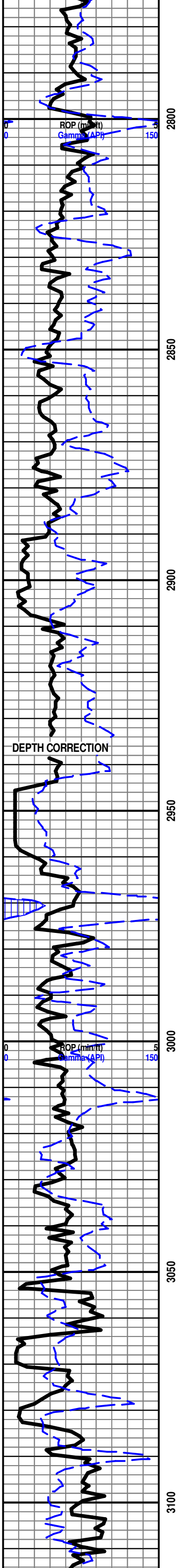
STONE CORRAL 1824' +517'

START GAS DETECTION AND PUT IN TRAP BOX AT 1850'

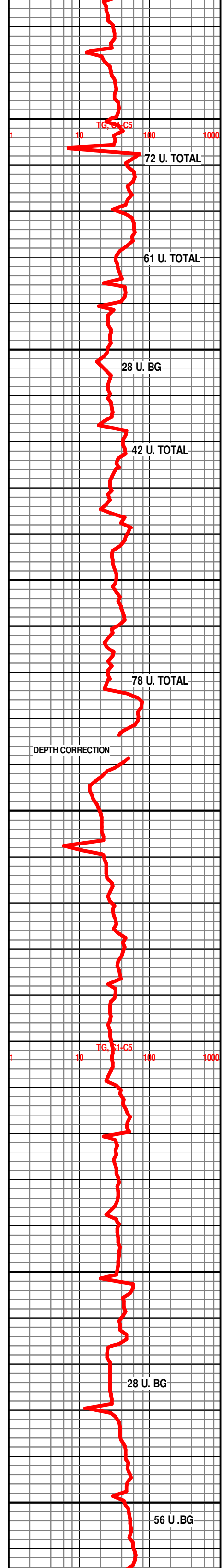


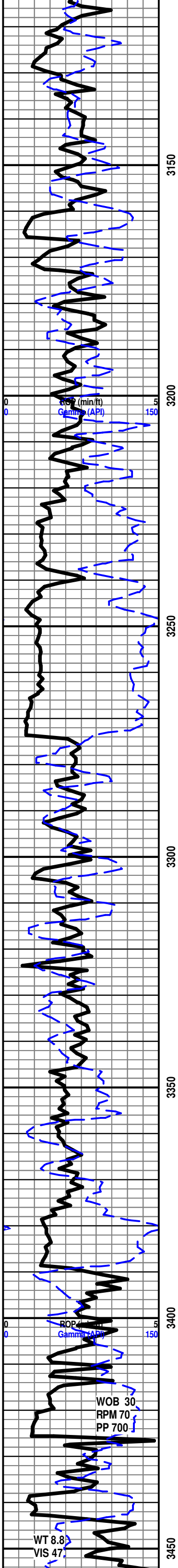






ESKRIDGE 2908' - 567'





3150

3200

3250

3300

3350

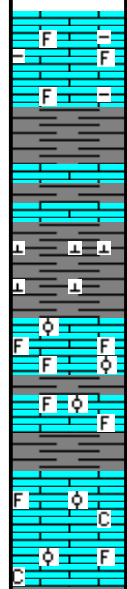
3400

3450

ROP (min/ft)
Gamma (API)

WOB 30
RPM 70
PP 700

WT 8.8
VIS 47



ELMONT 3274' - 933'

START SAMPLES 3400'

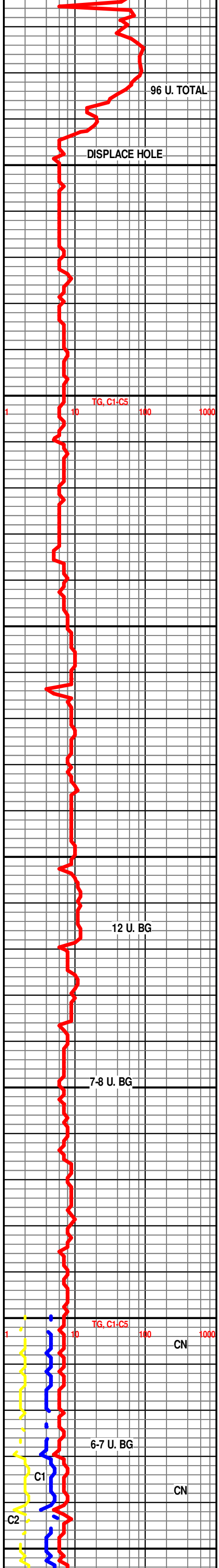
TOPEKA 3443' - 1102'

LS- CRM LT TN TN - HD DNS TO TR BRITT IP, MD-F-XLN, RE-XLN MTRX, ABTD IMBD FOS FRGS, TR FREE FOSS, HVY TR IMBD LMNTD LT GY SH IP, TR IMBD SMLL CALC XLS IP, NO FLO TO TR LT BRIT YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- MD TO DK GY- FRM BLKY , GRNY TXT IP, SLI TO V/ CALC IP

LS- LT TN TN- HD DNS TO SLI BRITT IP, MD-XLN, RE-XLN MTRX, V/ FOSS, SMLL IMBD OOL SCAT IP, SMLL CALC XLS IMBD IP , LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM LT TN - HD DNS TO BRITT, MD-XLN TO F-XLN IP, RE-XLN MTRX, ABTD IMBD FOSS FRGS THRU,



96 U. TOTAL

DISPLACE HOLE

TG, C1-C5

12 U. BG

7-8 U. BG

6-7 U. BG

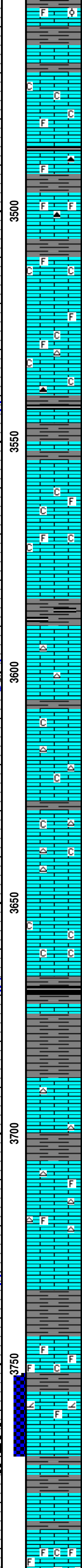
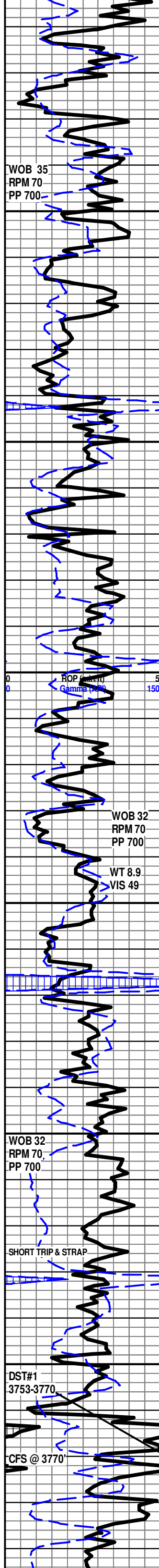
CN

CN

1 10 100 1000

1 10 100 1000

C1
C2



SCAT MICRO OOL THRU, TR LG IMBD CALC XLS IP, HVY TR FRM WHT CHLK IP, V/V/DLL YEL FLO IN 50% TO NO FLO IN 50%, SLI TR PR INTER FOSS POR SCAT IP, NO VIS CUT OR SHOW

LS- OFF WHT CRM BFF- MD HD TO SFT IP, V/ SUCRO S-CHLKY MTRX, GRDNG TO ABDT FRM WHT CHLK, TR IMBD FOSS FRGS IP, LT BRIT YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB

LS- CRM LT TN TN LT GY IP, HD DNS MOTT, MD-F-XLN, RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, HVY TR BLK CHRT IP, TR IMBD GY SH IP, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW OR CUT

SH- OLIVE GRN- FRM BLKY SMTH TXT

LS- OFF WHT CRM BFF- BD BRITT TO FRM IP, SUCRO MTRX GRDNG TO FRM AND SFT WHT CHLK, HVY TR FOSS FRGS IP, TR MD CALC XLS IMBD IP, DLL YEL MIN FLO IP, NO POSS TR FRACT POR IP, NO VIS CUT OR SHOW

LS- OFF WHT CRM LT TN IP, HD DNS TO BRITT, MD-XLN TO SUCRO S-CHLKY MTRX, ABDT IMBD FOSS FRGS IP, HVY TR WHT TN WTHRD CHRT IMBD IP, GRDNG TO FRM TO SFT WHT CHLK, V/ DLL YEL FLO IN 20%, NO VIS POR, NO VIS SHOW OR CUT

SH- BLK SFT CARB

LS- OFF WHT CRM BFF- HD DNS IP TO BRITT, MD-XLN TO V/ SUCRO MTRX, V/ S-CHLKY IP, TR FOSS FRGS SCAT THRU, TR SMLL TO MD CALC XLS IMBD IP, V/ DLL YEL MIN FLO THRU, PR SCAT MICRO VUG POR IP, NO VIS SHOW OR CUT

LS- CRM LT TN - HD DNS V/F-CRYPTO-XLN, FRLY NON DESCRIPT, TR PHNTM FOSS FRGS IP, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

SH- V/ DK GY TO BLK, FRM BLKY SMTH XT, HVY TR SFT CARB IP

LS- CRM LT TN TN - HD DNS TR BRITT IP, V/F-F-XLN, SLI S-SUCRO IP, TN CHRT, LT YEL MIN FLO, IP, NO VIS POR, NO VIS SHOW

LS- OFF WHT WHT TR CRM- MD HD TO FRM, V/ SUCRO TO SUCRO S-CHLKY MTRX, SLI TR SFT CHLK IP, TR TN WHT CHRT, DLL LT YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS-OFF WHT CRM - HD DNS TO BRITT, V/ TT SUCRO MTRX, SLI S-CHLKY IP, RE-XLN, SCAT LT TN CHRT, TR SFT WHT CHLK IP, LT BRIT YEL MIN FLO IP, PR VIS INTER-XLN POR IP, NO VIS SHOW OR CUT

3654-4662 LS- OFF WHT CRM BFF- HD BRITT IP TO V/ FRM, V/ SUCRO TO SUCRO S-CHLKY, W/ HVY TR ABDT FRM CHLK IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3666' - 1325'

SH- BLK SFT CARB

SH- DK BRN TO DK GY- FRM BLKY SMTH TXT TO SLI TR BLK SFT CARB IP

LS- OFF WHT CRM- HD DNS, F-V/F-XLN, MD-XLN IP, TR IMBD CALC XLS ON ONE FACES, TR WHT CHRT IP, LT BRIT YEL MIN FLO THRU, NO VIS CUT OR SHOW

LANSING 3706' - 1365'

LS- CRM LT TN TN- HD DNS TO BRITT, MD-F-XLN RE-XLN IP, ABDT IMBD WHT CLR CHRT, IMBD FOSS FRGS IP, LT BRIT YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LANSING "C" 3744' - 1403'

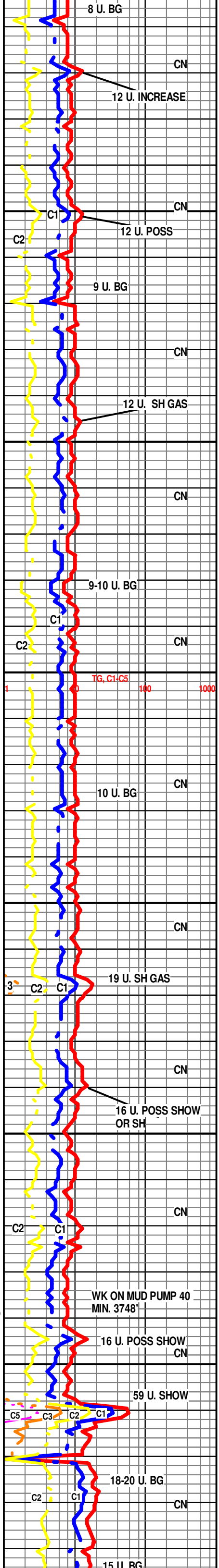
3748-3751- LS- CRM LT TN DK TN (DUE TO OIL STN IN 60%) HD DNS TO BRITT, MD-XLN, RE-XLN MTRX, IMBD FOSS SCAT THRU, SMLL CALC XLS IMBD IP, HVY TR FRM WHT CHLK IP, DLL YEL GLD FLO IN 60-70%, PR TO FR TR GD SCAT INTER-FOSS POR IN 30%, POSS FRACT POR IP, EXCEL INST FLSH CUT IN 70%, EXCEL SLO STRM RICH MLKY BLU CUT IN 70%, GD OIL ODOR, DK TN LCH ON DISH

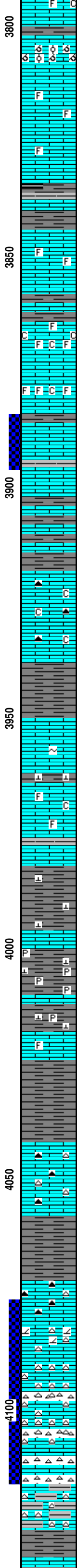
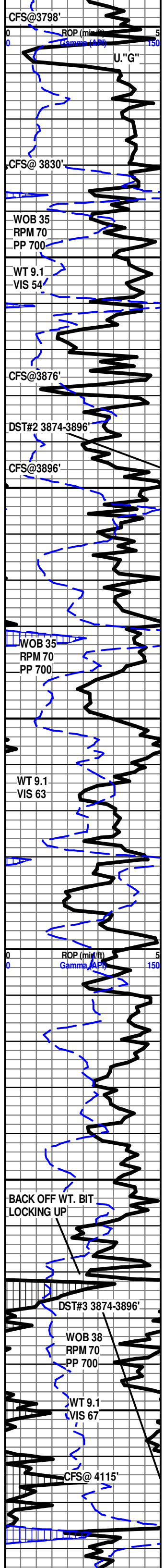
3759-3762' LS-TN DK TN BRN - (DUE TO OIL STN AND LIVE OIL STN THRU) HD V/V/ BRITT, V/ CRS SUCRO MTRX, ABDT IMBD SMLL TO MD, CLR TO FRSTY ANG DOLO AND LM GRNS AND CALC XLS THRU, SCAT IMBD FOSS FRGS IP, BRIT YEL GLD FLO IN 70-80%, DLL YEL GLD FLO IN 20%, GD TO EXCEL INTER-XLN POR IN 50%, GD MICROVUG TO VUG POR SCAT IN 50%, EXCEL INST FLSH CUT THRU, EXCEL SLO STRM MLKY BLU CUT THRU, EXCEL OIL ODOR, LIVE OIL IN DISH, LIVE OIL IN SAMPLES AT PIT,

LANSING "F" 3779' - 1438'

LS- OFF WHT CRM- HD IP TO BRITT, MD-XLN TO SUCRO S-CHLKY MTRX, V/ FRM WHT CHLK IP, LT BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

3789'-3794' LS-WHT OFF WHT DK TN (DUE TO DK TN TO BLK STN





SCAT THRU, TR SCAT DOS IP) HD DNS F-V/F-XLN RE-XLN MTRX, ABDT IMBD FOSS SCAT THRU, ABDT IMBD MD TO SFT WHT CHLK SCAT THRU, V/DLL YEL FLO IN 70%, V/DLL YEL GLD FLO IN 20%, PR TO FR VIS INTER-FOSS POR, PR TO FR SCAT MICROVUG POR SCAT THRU, EXCEL FLSH CUT THRU, EXCEL SLO STRM MLKY BLU CUT THRU, GD OIL ODOR, BRN LCH ON DISH

3803'-3808' LS- CRM LT TN - HD BRITT, MD-F-XLN, RE-XLN MTRX, V/OOLMLD TO SLI OOL IP, SMLL IMBD CALC XLS IP, NO FLO, FR TO GD OOLMLD POR THRU, PR SCAT MICRO VUG POR IP, NO VIS CUT OR SHOW

3808'-3830' LS OFF WHT CRM BFF- HD DNS V/F-CRYPTO-XLN, MD-F-XLN IP, SCAT IMBD FOSS IP, V/DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- MD TO DK GY- FRM BLKY SMTH TXT, TR BLK SFT CARB

LANSING "H" 3845' - 1504'

3848'-3852' LS-OFF WHT CRM LT TN BLK (TN DUE TO SPOTTED OIL STN SCAT THRU, DOS IP), HD DNS TR BRITT, MD-F-XLN RE-XLN IP, SLI S-SUCRO IP, FOSS FRGS SCAT THRU, ABDT VRGTD MD CALC XLS IMBD IP, MD CALC XLS ON ONE FACES W/ LIVE OIL STN, DLL YEL GLD FLO IN 60%, BRIT YEL GLD FLO IN 40%, PR VIS MICRO PP POR SCAT THRU, POSS FRACT POR IP, GD FLSH CUT IN 60%, GD SLO STRM MLKY BLU CUT IN 70%, GD STRNG OIL ODOR, DK TN STN ON DISH

3865'-3871' LS- OFF WHT WHT TO(DK TN SPTTD BRN STN, TR HVY TAR STN IP)- HD V/BRITT IP MD-XLN RE-XLN MTRX TO SUCRO S-CHLKY IP, ABDT IMBD FOSS & FOSS FRGS SCAT THRU, ABDT IMBD FRM TO SFT WHT CHLK, BRIT YEL GLD FLO IN 50%, DLL YEL FLO IN 20%, NO FLO IN 30%, V/ PR SCAT INTER-FOSS POR SCAT THRU, FR FLSH CUT IN 50%, FR TO GD SLO STRM MLKY BLU CUT IN 50%, V/ V/ LT OIL ODOR, LT TN STN ON DISH

3877'-3881' LS-OFF WHT CRM TN LT BRN (TN DUE TO SCAT OIL STN THRU), HD DNS TO V/ BRITT IP, MD-F-XLN RE-XLN MTRX, V/ FOSS THRU, V/ FOSS, S-CHLKY IP, BRIT YEL GLD SPTTD FLO THRU, PR VIS INTER-FOSS POR IP, FR FLSH CUT THRU, GD TO V/ GD SLO STRM MLKY BLU CUT THRU, FR TO GD OIL ODOR, TN LCH ON DISH, LIVE OIL IN CUP AND IN SAMPLES AT PIT,

3889'-3894' LS- CRM LT TN BRN OFF WHT(TN AND DK TN DUE TO LIVE OIL STN) HD DNS TO BRITT IP, MD-F-XLN, RE-XLN MTRX, ABDT IMBD FOSS & FOSS FRGS, TR FREE FOSS, IMBD ANG ANG LM GRNS IP, SMLL IMBD CALC XLS IP, BRIT YEL GLD FLO IN 30%, BRIT YEL GLD SPTTD FLO IN 50%, PR TO FR SCAT MICROVUG TO PR TO FR TO TR GD VIS SCAT INTER-FOSS POR SCAT IN 20%, GD FLSH CUT IN 40%, V/ GD SLO STRM MLKY BLU CUT IN 80%, LT OIL ODOR, DK TN LCH ON DISH

LS- OFF WHT WHT CRM- HD IP TO FRM, V/ SUCRO S-CHLKY MTRX, ABDT FRM WHT CHLK THRU, ABDT TN TRNSLCNT CHRT IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

X-SHALE 3938' -1597'

SH- DK RED GY GRN- MOTT, FRM BLKY, SMTH TXT TO SFT GMMY IP

LS- TN LT RED- HD DNS MOTT, V/F-CRYPTO-XLN GRDNG TO MD-F-XLN, TR IMBD GLAUC IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- MD DK GY- FRM BLKY V/ CALC TO LMY GRNY TXT

LS-OFF WHT CRM BFF- HD DNS IP TO SFT, MD-XLN TO SUCRO S-CHLKY IP, TR PHNTM FOSS FRGS IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH- BRIT GRN- FRM BLKY SMTH TXT CALC IP

SH- RED DK RED TO DK BRN- FRM BLKY SMTH TXT IP TO GRNY, SLI CALC IP

LS- CRM LT GY- HD DNS V/ SUCRO MTRX, F-XLN IP, IMBD LT GY SH IP, LT YEL MIN FLO, NO VIS POR, NO CIS SHOW OR CUT

SH- LT GY TO GK TO GRN IP- FRM BLKY SMTH TXT TO GRNY IP, IMBD FNLY DISS PYR IP, CALC IP

LS- CRM LT TN TN- HD DNS- F-V/F-XLN, RE-XLN IP, TR FOSS FRGS IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- DK RED TO DK BRN- FRM BLKY SMTH TXT IP W/ IMBD LMNTD SMTH FRM GRN SH IP, TO V/ SFT GMMY TXT IP

LS- OFF WHT WHT - HD DNS F-V/F-XLN, MD-XLN TO SUCRO IP, TR SFT WHT CHLK, ABDT TN RED ORNG MOTT CHRT, DLL YEL MIN FLO IP TO BRIT YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- PRPLE GRN DK RED- MOTT, FRM BLKY SMTH WXY TXT

MARMATON 4071' - 1730'

LS- OFF WHT CRM BFF- HD DNS F-V/F-XLN, MD-XLN IP, ABDT TN ORNG CHRT IP, LT BRIT YEL FLO IP TO NO FLO, NO VIS POR, NO VIS SHOW OR CUT

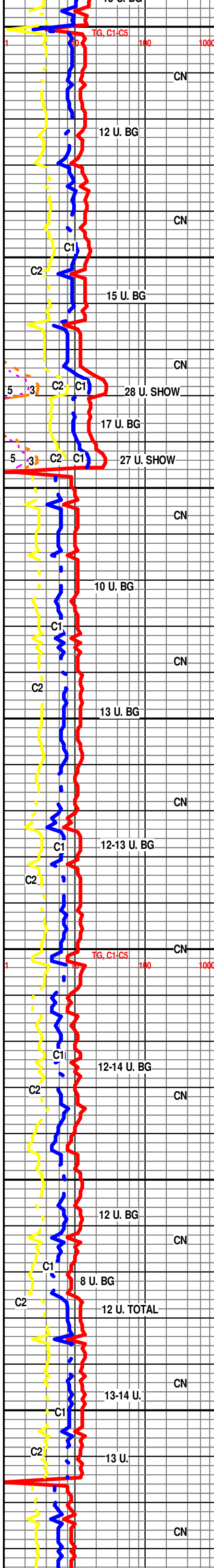
LS- WHT OFF WHT, V/F-CRYPTO-XLN TO V/ SUCRO MTRX IP, V/ DOLO IP ABDT TN SLI ORNG CHRT IMBD IP, LT BRIT YEL MIN FLO IP TO DLL YEL FLO IP, V/ PR MICRO PP POR IP, NO VIS CUT OR SHOW

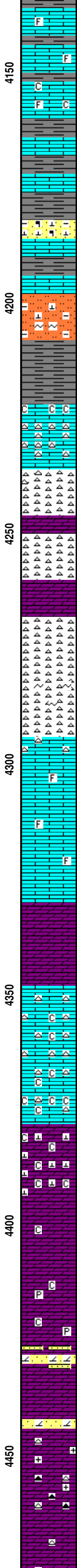
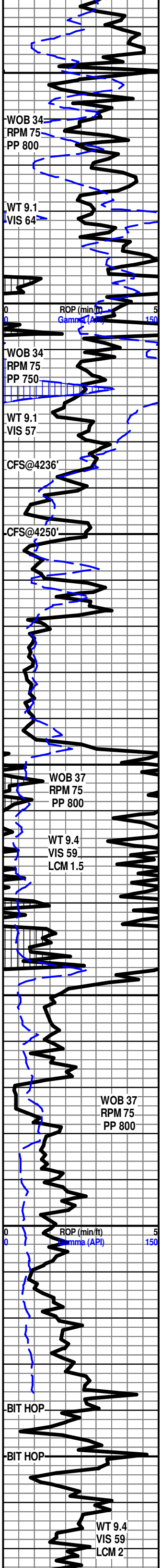
LS & CHRT INTERBEDS- OFF WHT WHT LT TN- HD DNS F-V/F-XLN, SLI S-CHLKY IP W/ IMBD WHT TR ORNG CHRT, WHT TN WTHRED CHRT, POSS SLI DOLO IP, LR BRIT YEL FLO IP, PR VIS MICRO PP POR IP, NO VIS CUT OR SHOW

INTERBEDDED CHRTS & LS- OFF WHT CRM LT TN- HD DNS TO BRITT, F-V/F-XLN TO V/ FN SUCRO MTRX, WTHRED CHRTS, TR IMBD MD CALC XLS IP, NO FLO TO BRIT YEL MIN FLO IP, PR MICRO PP POR IP, NO VIS CUT OR SHOW

CHRT & INTERBEDDED LS- WHT TN LT GY TO GY, HD DNS MOTT, V/ TT SUCRO MTRX TO F-XLN, W/ ABDT IMBD DISS AND LMNTS LT GY SH THRU, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- DK GY TO GY, FRM BLKY SMTH TXT CALC IP





LS- CRM LT TN TN- HD DNS TO BRITT IP, MD-F-XLN RE-XLN IP, TR SCAT IMBD FOSS FRGS IP, SLI TR IMBD SFT WHT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT WHT TO CRM- HD DNS TO BRITT MD-F-XLN TO SUCRO S-CHLKY IP, ABDT SFT WHT CHLK IP, TR FOSS FRGS IP, SLI TR IMBD LT GY SH IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- LT TO MD GY- FRM BLKY SMTH TXT IP TO GRNY IP, V/ CALC TO LMY IP

SH- RED TO DK RED- MFRM BLKY SMTH WXY TXT

SS-CLR TO FRSTY RED IP, HD TT TO TR FRI, S-RND TO RND CLR QURTZ GRNS MD-GRNS, FR SRT, V/ CALC CMNT TO SIL CMNT IP, TR MIN, TR IMBD DISS RED SH IP, NO FLO NO VIS POR, NO VIS SHOW OR CUT

SH- RED GRN BRN PRPL YEL, MOTT, FRM BLKY SMTH TXT TO V/ SFT PLTY IP

LS-TN BRN - HD DNS V/F-CRYPTO-XLN, MOTT, W/ IMBD SMLL VRGTD CALC XLS IP, NO FLO, NO VIS POR, NO VIS SHOW

SLTST- LT GRN TO OFF WHT- HD TT, ABDT V/F-GRN QURTZ THRU, W/ INTERBEDDED GRN SH THRU, SLI CALC IP, SCAT IMBD GLAUC IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- PRPLE GRN RED YEL- MOTT, FRM BLKY SMTH WXY TXT

MISSISSIPPI 4222' - 1881'

4222-4224 - LS- OFF WHT TO WHT - MD HD TO SFT, V/ FRM CHLKY MTRX, TO ABDT SFT WHT CHLK IP, W/ HVY TR IMBD PRPL SH IP

4224-4236-LS- WHT OF WHT, V/ SFT TI FRM CHLKY MTRX, ABDT IMBD TRNSLCNT TO ORNG CHRT, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

CHRT- WHT ORNG- HD DNS MOTT, ANG TO V/ WTHRED FN SUCRO MTRX, V/ S-CHLKY TXT IP, DLL YEL FLO IN 40% TO NO FLO IN 60%, NO POR TO PR MICRO PP POR SCAT IN 25-30%, NOVIS CUT OR SHOW

DOLO- WHT OFF WHT, HD DNS V/F-XLN TO V/ TT SUCRO MTRX, BRIT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW OR CUT

DOLO- CRM LT TN TN - HD DNS TO BRITT, V/ SUCRO MTRX, TR IMBD WHT CHRT IP, BRIT YEL FLO THRU, TR PR MICRO PP POR IP, NO VIS CUT OR SHOW

CHRT - FRSTY WHT LT TN - HD DNS CRYPTO-XLN ANG TO V/ SUCRO TXT WTHRED MTRX, TR GLAUC IP, DLL YEL FLO IP TO NO FLO, NO VIS POR TO TR V/ PR MICRO PP POR, NO VIS SHOW OR CUT

LS- CRM BFF LT TN - HD DNS TO TR BRITT, F-V/F XLN TO MD-F-XLN, V/ RE-XLN MTRX, FOSS IP, W, SCAT IMBD SMLL CALC XLS IP, NO FLO TO BRIT YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

DOLO- DK TN LT BRN- HD DNS V/F-XLN TO V/ TT FN SUCRO MTRX, TR CALC IP, DLL YEL TO BRIT YEL MIN FLO IN 60%, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT OFF WHT - MD HD TO V/ SFT, ABDT SFT WHT CHLK, SUCRO S-CHLKY IP, ABDT WHT TRNSLCNT CHRT IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT WHT- ABDT SFT WHT CHLKY MTRX, HVY TR IMBD WHT TN CHRT, NO FLO, NO VIS POR, NO VIS POR, NO VIS SHOW OR CUT

ARBUCKLE 4378' -2037'

DOLO-LT TN TN - HD DNS TO BRITT, F-V/F-XLN TO FN SUCRO MTRX, HVY TR SCAT IMB SFT WHT CHLK, V/ CALC IP, LT BRIT YEL MIN FLO, PR SCAT MICRO PP POR IP

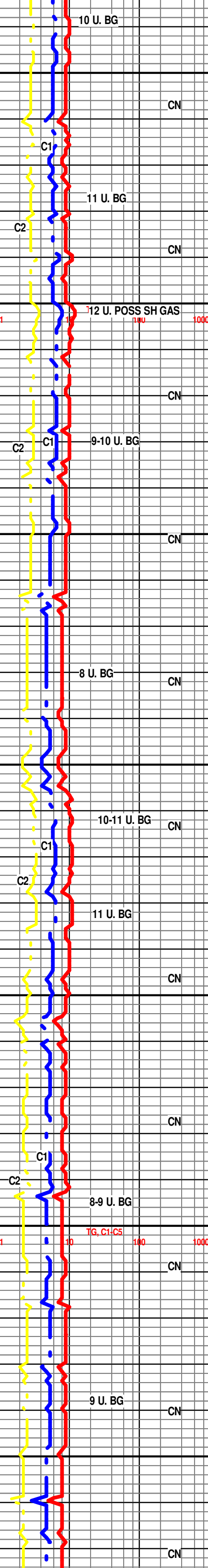
DOLO - LT TN TN- HD DNS TO V/ BRITT, F-XLN IP TO V/ SUCRO MTRX, TR IMBD SFT CHLK IP, BRIT YEL MIN FLO THRU, PR TO FR MICRO PP TO MICRO VUG POR SCAT IN 60%, NO VIS CUT OR SHOW

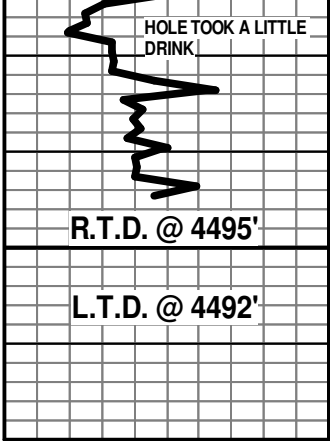
DOLO - LT TN TN- HD DNS TO V/ BRITT, F-XLN IP TO SUCRO IP, HVY TR PYR CLSTRS, BRIT YEL MIN FLO THRU, PR MICRO PP IP TO MICRO VUG POR SCAT IN 20%, NO VIS CUT OR SHOW

SS- FRSTY WHT TO CLR- HD TT TO TR FRI IP, FN TO MD GRN QURTZ, FRSTY GRNS, ANG TO S-ANG GRNS, S-RND IP, PR TO FR SRT, V/ DOLO CMNT, NO FLO, TR PR INTER-GRN POR IP, NO VIS SHOW OR CUT

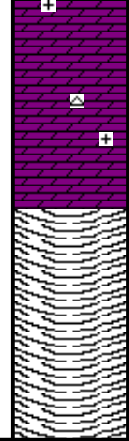
SS-TN BRN- HD TT TO FRI IP, MD- GRNS, S-RND TO RND QURTZ GRNS, WLL SRT, DOLO CMNT IP TO SIL CMNT, NO FLO, GD VIS INTER-GRN POR IP, NO VIS SHOW OR CUT

DOLO - LT TN TN - HD DNSTO BRITT, MD-XLN TO V/ SUCRO MTRX, HVY TR FLDSPRS, HVY TR BRN WHT CHRT, BRIT YEL MIN FLO THRU, PR TO FR SCAT MICRO VUG TO VUG POR IP, NO VIS SHOW OR CUT





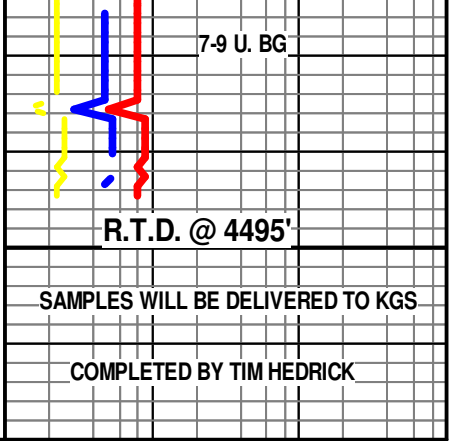
4500



DOLO - LT TN TN - HD DNS TO BRITT, MD-XLN TO V/
 SUCRO MTRX, TR FLDSPRS, HVY TR WHT CHRT, BRIT
 YEL MIN FLO THRU, PR TO FR SCAT MICRO VUG TO VUG
 POR IP, NO VIS SHOW OR CUT

R.T.D. @ 3:34 AM JULY 06, 2013

CFS 1 HR. ADD HULLS
 SHORT TRIP 10 STANDS
 CTCH / TOFL/WEATHERFORD/ LIBERAL



SAMPLES WILL BE DELIVERED TO KGS

COMPLETED BY TIM HEDRICK