

1085031

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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	STRAMEL 2-7
Doc ID	1085031

All Electric Logs Run

DIL
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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 19, 2012

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

Re: ACO1
API 15-165-21963-00-00
STRAMEL 2-7
SW/4 Sec.07-16S-16W
Rush County, Kansas

Dear Production Department:

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

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

Respectfully,
CLAYTON CAMOZZI



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

Date: 3/1/2012
 Invoice # 598
 P.O.#:
 Due Date: 3/31/2012
 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:
 STRAMEL 2-7

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No	Baffle Plate Aluminum, 3 5/8"	1	\$96.34	Yes
Common-Class A	490	\$ 6,398.99	Yes				
Bulk Truck Matl-Material Service Charge	516	\$ 1,104.68	No				
8 5/8" Basket	3	\$ 1,014.76	Yes				
Calcium Chloride	18	\$ 725.62	Yes				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 267.07	No				
Flo Seal	100	\$ 214.08	Yes				
8 5/8" Centralizer	3	\$ 205.52	Yes				
Premium Gel (Bentonite)	9	\$ 156.84	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 156.28	No				
8 5/8" Top Rubber Plug	1	\$ 113.46	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 11,431.06
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,714.66)

SubTotal for Taxable Items:	\$ 7,586.77
SubTotal for Non-Taxable Items:	\$ 2,129.63
Total:	\$ 9,716.40
Tax:	\$ 477.97

6.30% Rush County Sales Tax

Amount Due: \$ 10,194.37
Applied Payments:
Balance Due: \$ 10,194.37

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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RECEIVED

MAR 07 2012

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

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 598

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

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

Date	2-28-12	Sec.	7	Twp.	16	Range	16	County	Rush	State	Ks	On Location		Finish	6:00 PM						
Lease	Stramel		Well No.	2-7		Location Loretta, Ks - 2E to 340 Rd, 1N to CRd															
Contractor	Discovery #2		Owner 2E, N into at tank battery + W to Rig																		
Type Job	Surface		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.																		
Hole Size	12 1/4"		T.D.	1092'		Charge To Sam Gary Jr. + Associates															
Csg.	8 5/8" 23d New		Depth	1092'		Street															
Tbg. Size			Depth			City															
Tool			Depth			State															
Cement Left in Csg.	41.59'		Shoe Joint	41.59'		The above was done to satisfaction and supervision of owner agent or contractor.															
Meas Line			Displace	66 3/4 BLS		Cement Amount Ordered 390 sx Common 3% CC															
EQUIPMENT						290 Gel 1/4# Flo Seal, 100 sx Common 3% CC															
Pumptrk	15	No.	Cementer	Cisco 8 Doug		Common 490															
Bulktrk	13	No.	Driver	Levy		Poz. Mix															
Bulktrk	p.u.	No.	Driver	Rick		Gel. 8															
JOB SERVICES & REMARKS						Calcium 18															
Remarks	Cement did Not Circulate.											Hulls									
Rat Hole												Salt									
Mouse Hole												Flowseal 100#									
Centralizers	1, 14, 23											Kol-Seal									
Baskets	2, 15, 24											Mud CLR 48									
D/V or Port Collar												CFL-117 or CD110 CAF 38									
Run 100' of 1" pipe on backside + mixed 100 sx Common 3% CC.						Sand															
Cement did Circulate, washed up + Riggel down.						Handling 516															
						Mileage															
						FLOAT EQUIPMENT															
						Guide Shoe															
						Centralizer 3															
						Baskets 3															
						AFU Inserts															
						Float Shoe															
						Latch Down															
						1- Baffle plate															
						1- Rubber plug															
						Pumptrk Charge Long Surface Job															
						Mileage 25															
						Tax															
						Discount															
						Total Charge															

[Handwritten Signature]

the on-gent



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: 3/7/2012
 Invoice # 468
 P.O.#:
 Due Date: 4/6/2012
 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:
 STRAMEL 2-7

Description of Work:
 PLUG JOB

<input checked="" type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> CC	
Account	8200-138
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.23	Yes				
Common-Class A	120	\$ 1,589.49	Yes				
Bulk Truck Matl-Material Service Charge	207	\$ 449.49	Yes				
POZ Mix-Standard	80	\$ 399.54	Yes				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 270.89	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 158.51	Yes				
Premium Gel (Bentonite)	7	\$ 123.73	Yes				
Flo Seal	50	\$ 108.57	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 4,339.45
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (650.92)
	SubTotal for Taxable Items:	\$ 3,688.53
	SubTotal for Non-Taxable Items:	\$ -
	Total:	\$ 3,688.53
	Tax:	\$ 232.38
	Amount Due:	\$ 3,920.91
	Applied Payments:	
	Balance Due:	\$ 3,920.91

6.30% Rush 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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RECEIVED

MAR 15 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

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. 468

Date	3-5-12	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Straw	Well No.	2-7	Location	Loretta 2E 1W 3E Lind	Rush	Kansas	S: 4:5AM
Contractor	Discovery Drilling Rig 2				Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Type Job	Plug	Hole Size	7 7/8	T.D.	31650	Charge To	Samuel Gray Jr. & Assoc.	
Csg.		Tbg. Size		Depth		Street		
Tool		Cement Left in Csg.		Depth		City	State	
Meas Line		Displace		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.		
EQUIPMENT				Cement Amount Ordered	200 60/40 4 1/2 bags			

Pumptrk	5	No.	Cementor	Steve	1/2 Flo Seal per sk
Bulktrk	10	No.	Helper	Steve	Common 120
Bulktrk		No.	Driver	Brett	Poz. Mix 80
Bulktrk		No.	Driver	Lennie	Gel. 7

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30sk	Salt
Mouse Hole 20sk	Flowseal 50 lb
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
1st Plug @ 3547 50sk	Sand
2nd " " 1110 50sk	Handling 207
	Mileage

FLOAT EQUIPMENT

3rd " " 420 30sk	Guide Shoe
4th " " 460 20sk	Centralizer
Rat Hole 30sk	Baskets
Mouse Hole 20sk	AFU Inserts
	Float Shoe
	Latch Down

Signature	Pumptrk Charge	Tax
	Mileage 25 plug	Discount
		Total Charge



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

7-16-16 Rush, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Stramel 2-7

Job Ticket: 36062

DST#: 1

ATTN: Clayton Comozzi

Test Start: 2012.03.03 @ 09:51:47

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:51:47

Time Test Ended: 17:34:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3388.00 ft (KB) To 3446.00 ft (KB) (TVD)

Reference Elevations: 1958.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 54.19 psig @ 3428.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.03

End Date:

2012.03.03

Last Calib.:

1899.12.30

Start Time: 09:51:48

End Time:

17:34:17

Time On Btm:

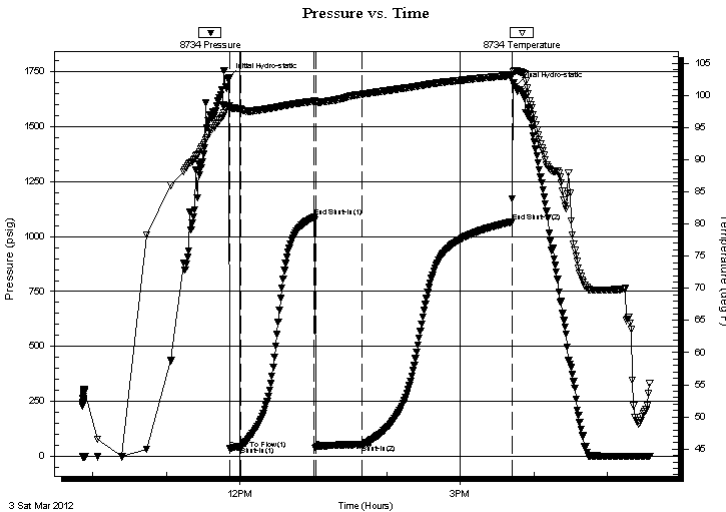
2012.03.03 @ 11:50:47

Time Off Btm:

2012.03.03 @ 15:44:17

TEST COMMENT: 10 - IFP - weak blow throughout sur - 2"
60 - ISI - no blow back
40 - FFP - BOB 30 sec
120 - FSI - weak sur blow back - died 17min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.51	98.43	Initial Hydro-static
1	32.98	97.92	Open To Flow (1)
10	44.13	97.85	Shut-In(1)
70	1089.13	99.14	End Shut-In(1)
71	35.40	98.92	Open To Flow (2)
109	54.19	100.19	Shut-In(2)
231	1067.32	103.13	End Shut-In(2)
234	1684.46	103.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	GHOCM 5%G, 30%O, 65%M	0.50
0.00	290' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

7-16-16 Rush, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Stramel 2-7

Job Ticket: 36062

DST#: 1

ATTN: Clayton Comozzi

Test Start: 2012.03.03 @ 09:51:47

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:51:47

Time Test Ended: 17:34:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3388.00 ft (KB) To 3446.00 ft (KB) (TVD)

Reference Elevations: 1958.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8365 Fluid

Press @ Run Depth: psig @ 3354.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.03

End Date:

2012.03.03

Last Calib.:

1899.12.30

Start Time:

09:51:27

End Time:

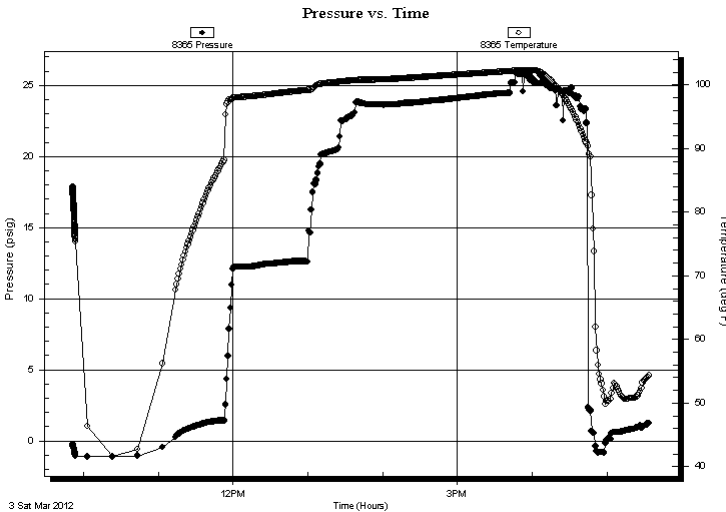
17:33:56

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 - IFP - weak blow throughout sur - 2"
60 - ISI - no blow back
40 - FFP - BOB 30 sec
120 - FSI - weak sur blow back - died 17min

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
55.00	GHOCM 5%G, 30%O, 65%M	0.50
0.00	290' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

7-16-16 Rush, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Stramel 2-7

Job Ticket: 36062

DST#: 1

ATTN: Clayton Comozzi

Test Start: 2012.03.03 @ 09:51:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	GHOCM 5%G, 30%O, 65%M	0.498
0.00	290' GIP	0.000

Total Length: 55.00 ft Total Volume: 0.498 bbl

Num Fluid Samples: 0

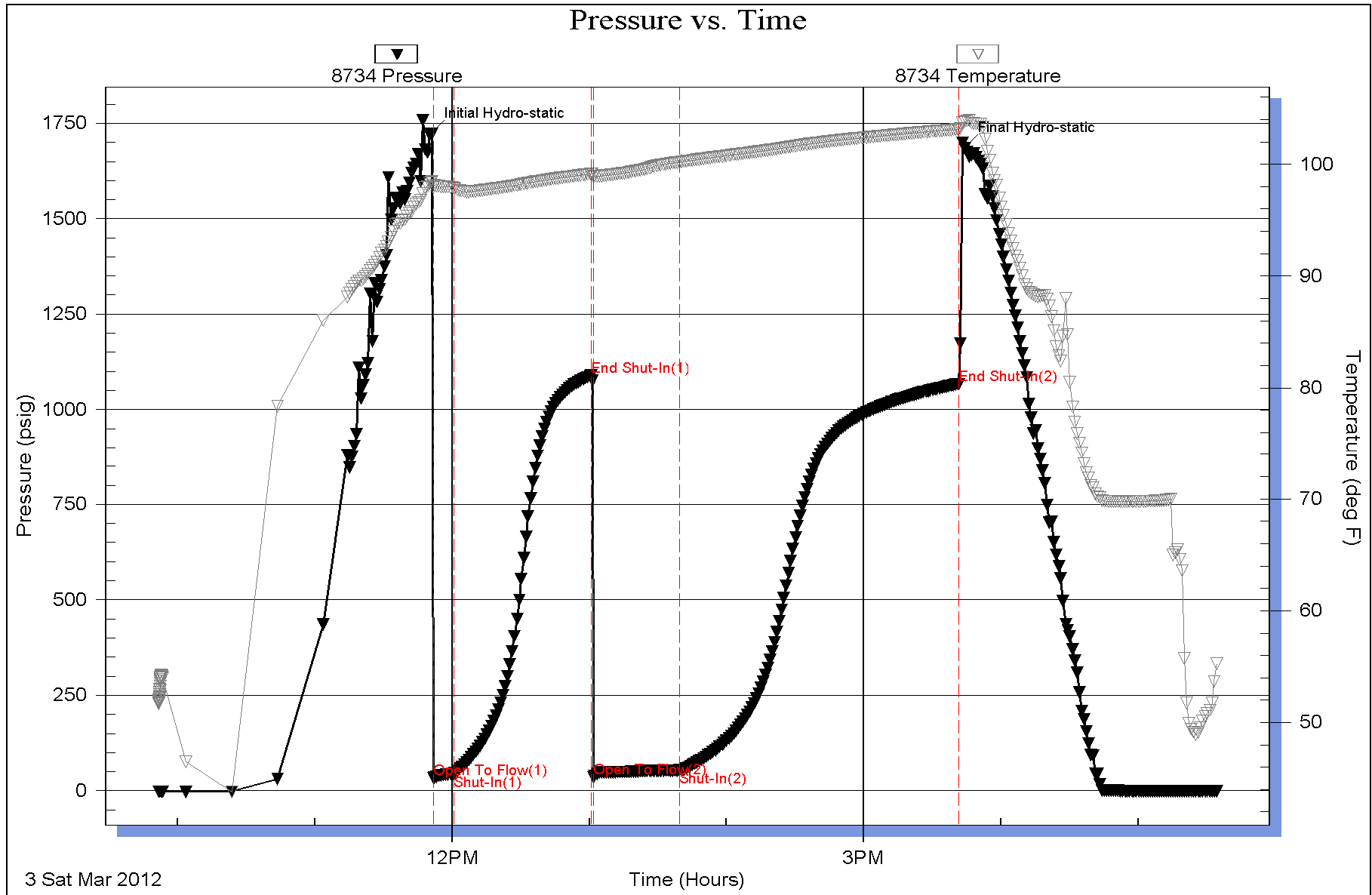
Num Gas Bombs: 0

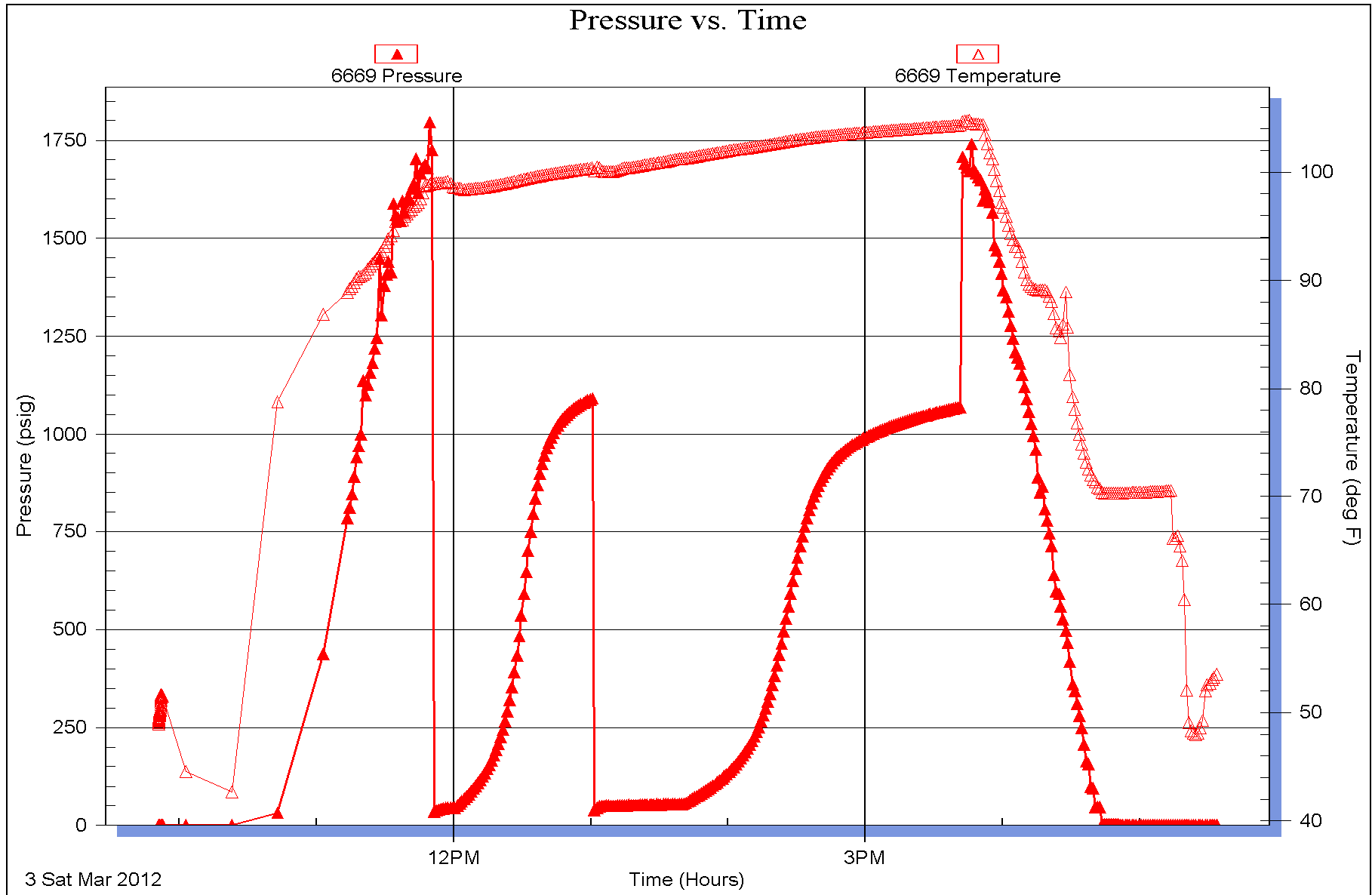
Serial #:

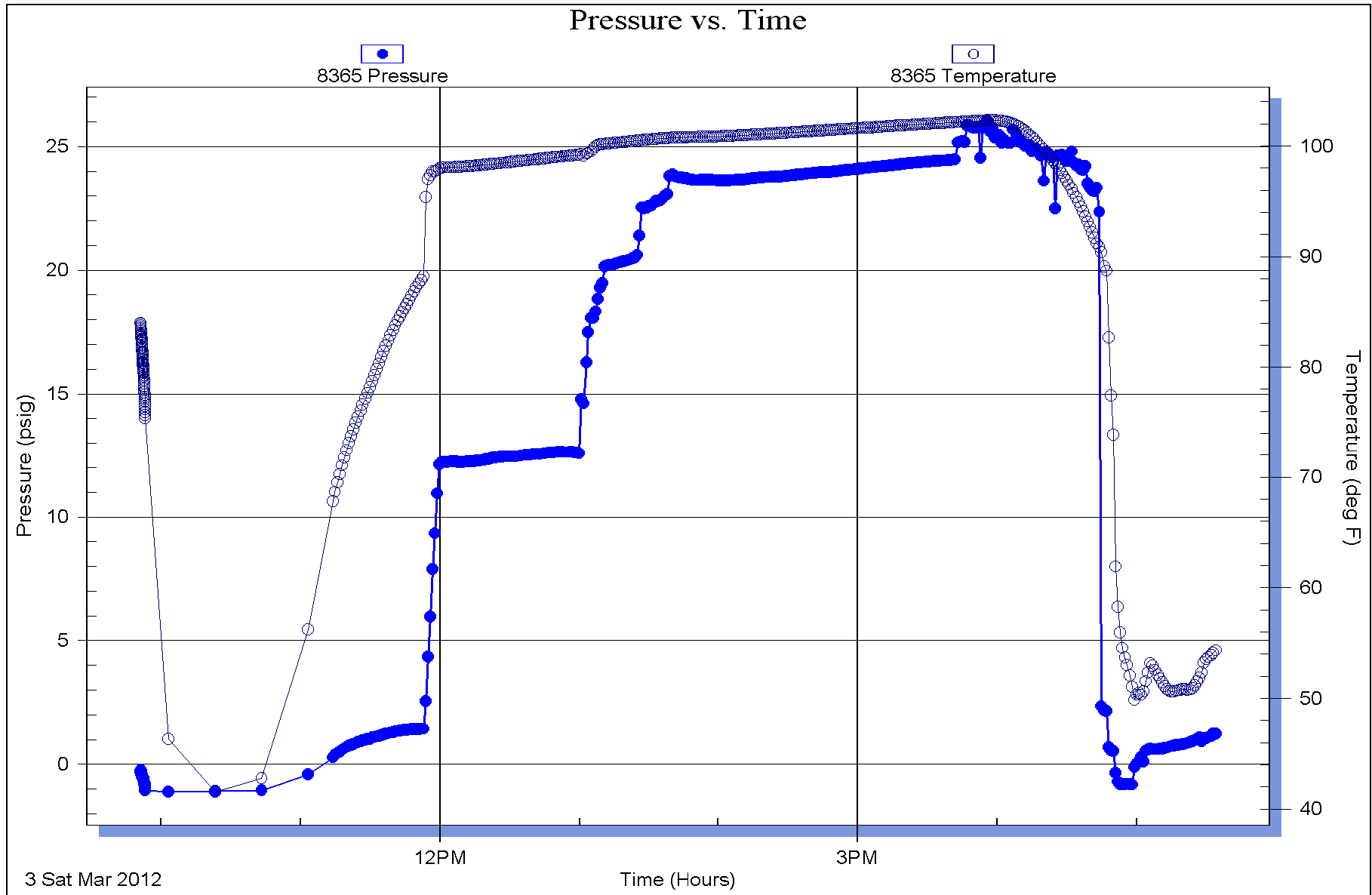
Laboratory Name:

Laboratory Location:

Recovery Comments: 2500 ml G, 1350 ml O, 150 ml M, 660 LBS









TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

7-16-16 Rush, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Stramel 2-7

Job Ticket: 36063

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.03.04 @ 02:15:52

GENERAL INFORMATION:

Formation: **Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:54:22

Time Test Ended: 08:50:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3460.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 1958.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 40.22 psig @ 3502.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.04

End Date:

2012.03.04

Last Calib.:

1899.12.30

Start Time:

02:15:53

End Time:

08:50:52

Time On Btm:

2012.03.04 @ 03:53:22

Time Off Btm:

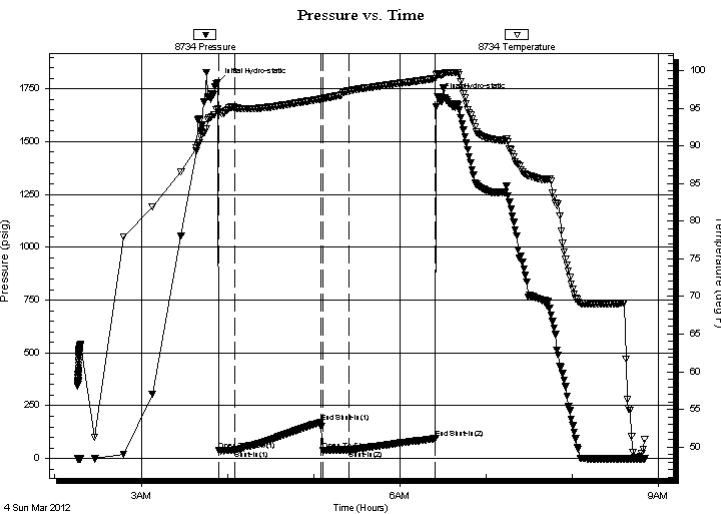
2012.03.04 @ 06:26:52

TEST COMMENT: 10 - IFP - weak blow throughout 1/4" - 1"

60 - ISI - no blow back

20 - FFP - sur blow - died 7 min

60 - FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.76	94.91	Initial Hydro-static
1	37.06	94.52	Open To Flow (1)
12	38.37	95.11	Shut-In(1)
72	171.34	96.25	End Shut-In(1)
73	39.23	96.25	Open To Flow (2)
92	40.22	97.34	Shut-In(2)
152	94.23	98.96	End Shut-In(2)
154	1706.44	99.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	V SOCM 2%O, 98%M	0.02

* 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. and Associates, Inc.

7-16-16 Rush, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Stramel 2-7

Job Ticket: 36063

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.03.04 @ 02:15:52

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

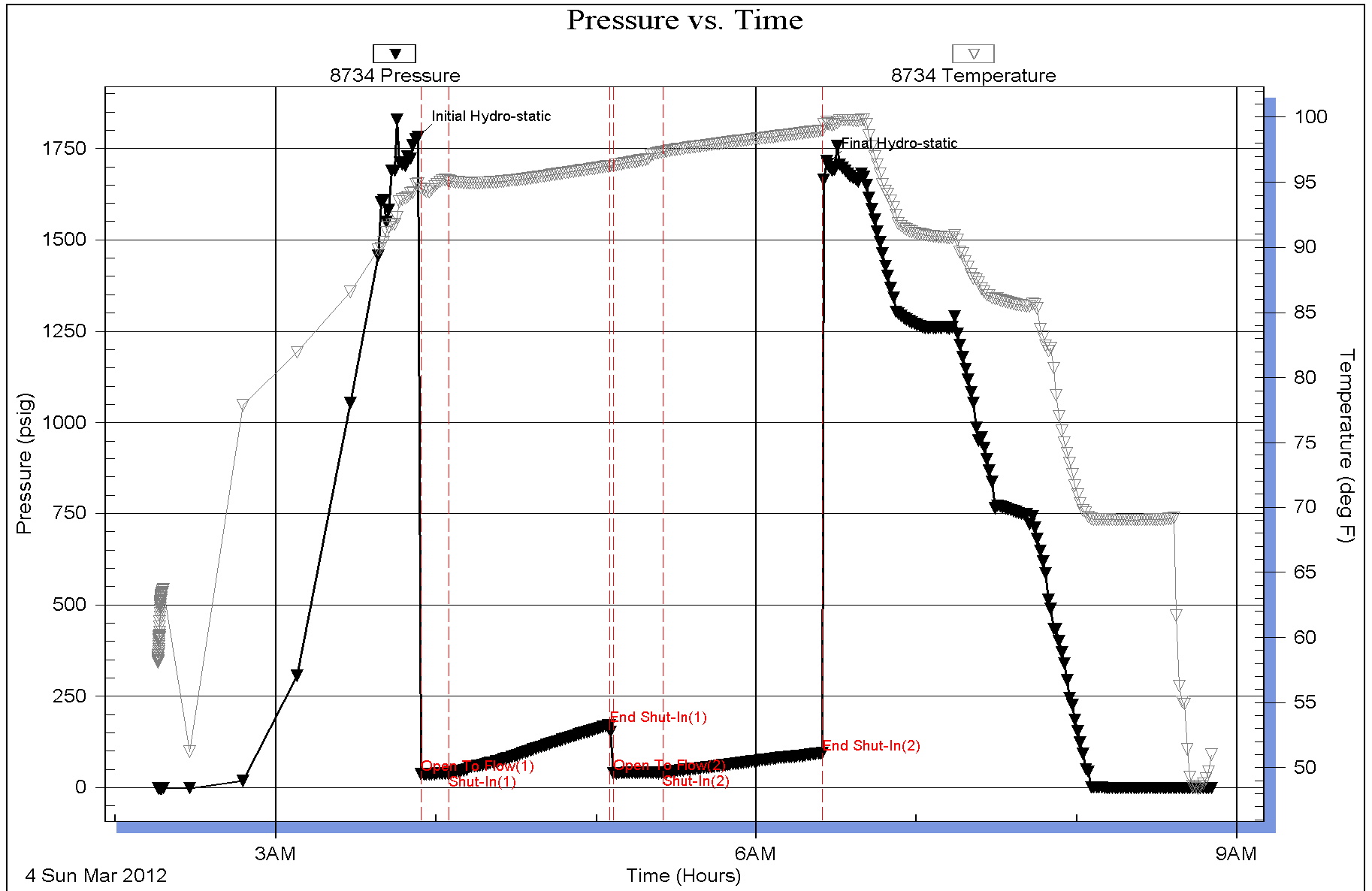
Length ft	Description	Volume bbl
5.00	VSOCM 2%O, 98%M	0.025

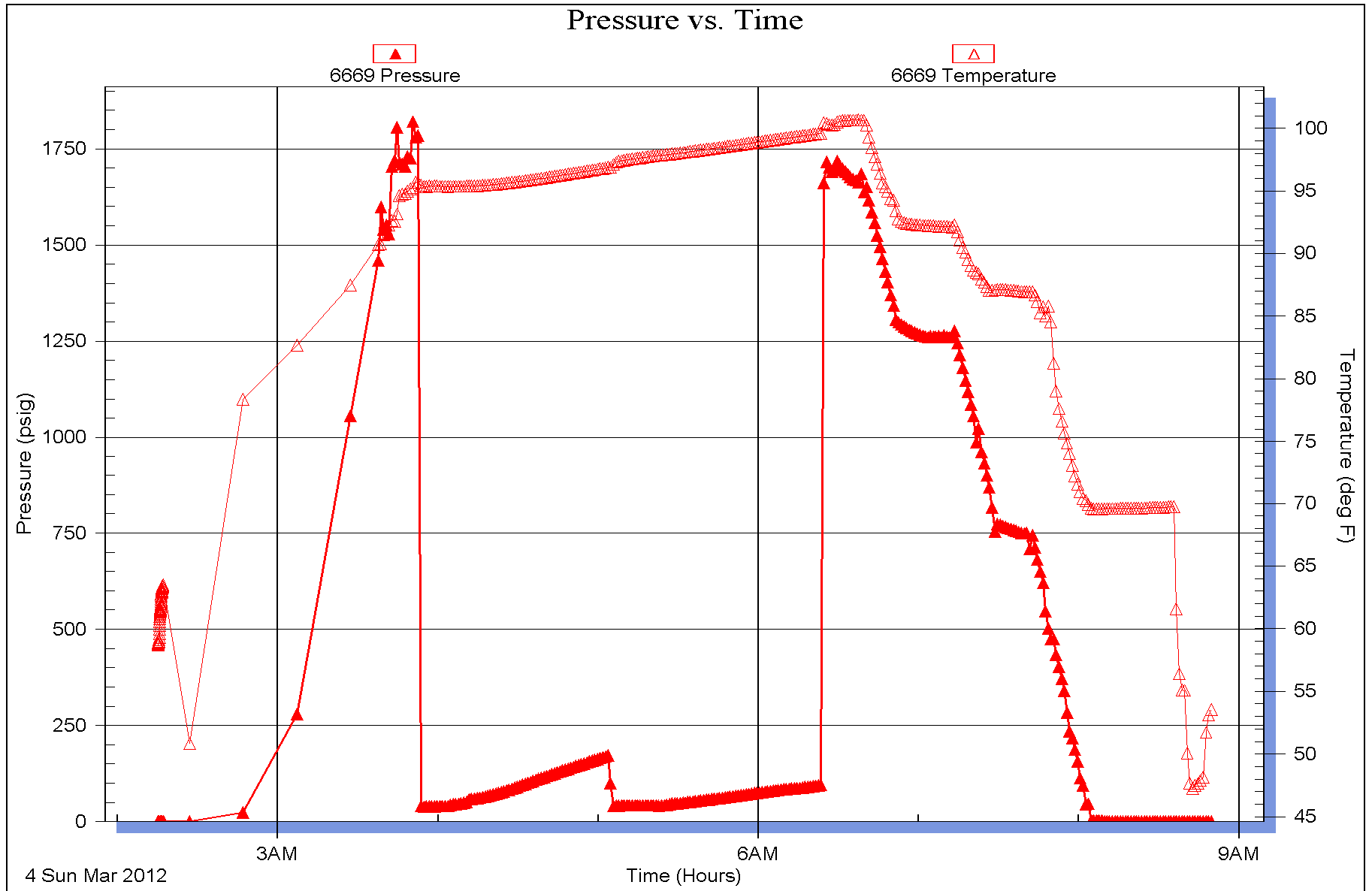
Total Length: 5.00 ft Total Volume: 0.025 bbl

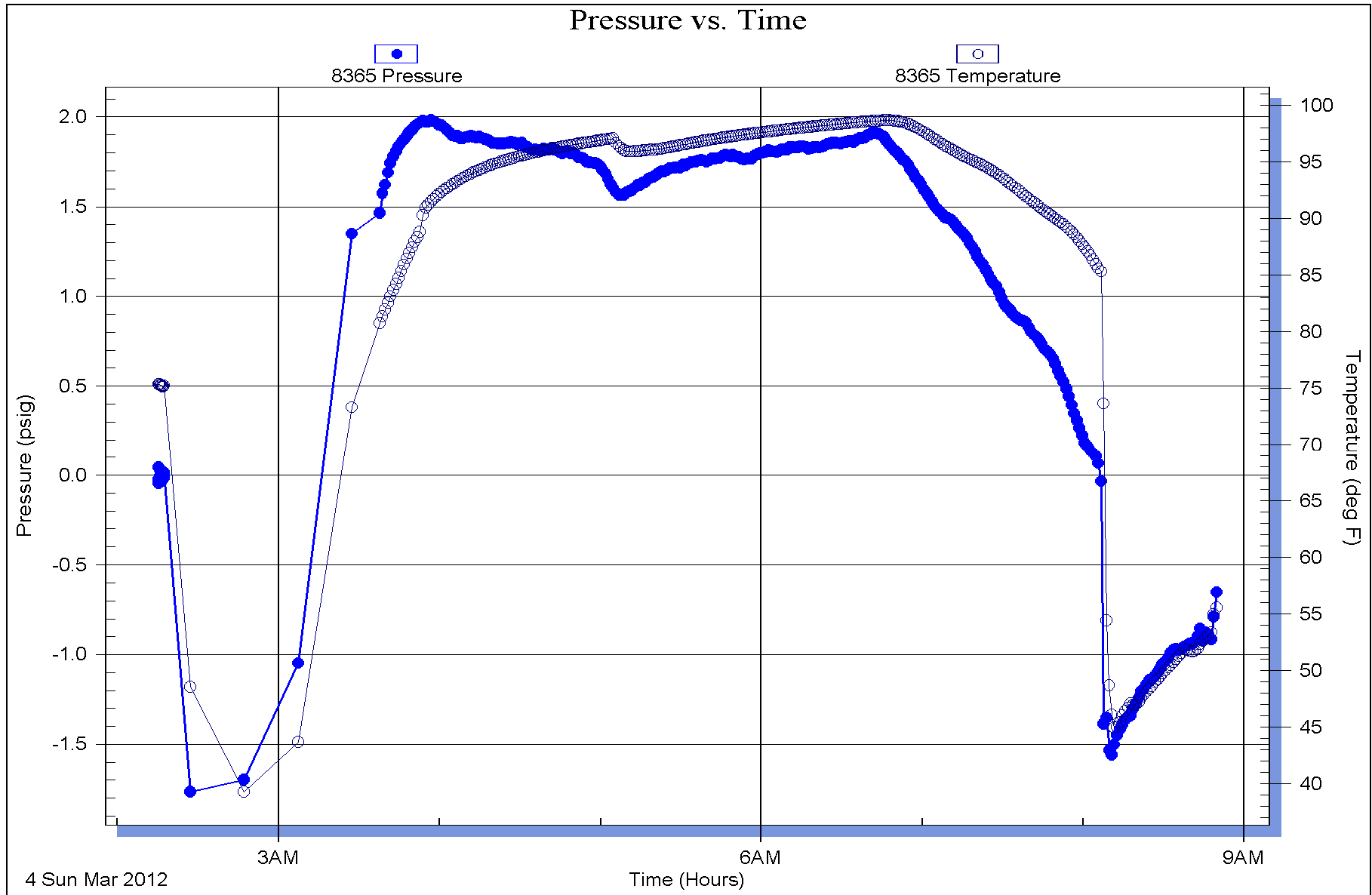
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 80 ml O, 3920 ml M 42 LBS









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

Well Name: SGA Stramel 2-7
 Location: Sec. 7-16S-16W Rush County
 License Number: 15-165-21963-0000
 Spud Date: 2/27/12
 Surface Coordinates: 565 FSL/ 1370 FWL
 Region: WILDCAT
 Drilling Completed: 3/04/12

Bottom Hole Coordinates:
 Ground Elevation (ft): 1950' K.B. Elevation (ft): 1958'
 Logged Interval (ft): 1700' To: 3650' Total Depth (ft): 3650'
 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: TIM & SCHUYLER HEDRICK
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378

DST's Report

DST #1 3388'-3446' 10-60-40-120
 IF- WK BLW THRU SURF. 2", ISI- NO BLW BACK, FF- BOB 30 SEC., FSI- WK SURF. BLW BACK DIED 17 MIN.
 IH- 1723, FH- 1684/ IF- 33 TO 44, FF- 35 TO 54/ ISI- 1089, FSI- 1067
 REC. 55' OF TF/ 290 ' OF GIP/ 55' OF GHOCM 5% GAS, 30% OIL, 65% MUD/ BHT-104, GRAVITY- 39/ CHLOR.
 3800

DST's Report

DST #2 3460'-3520' 10-60-20-60
 IF- WK BLW THRU 1/4" TO 1", ISI- NO BLW BACK, FF- SURF. BLW DIED 7 MIN., FSI- NO BLW BACK
 IH- 1781, FH- 1706/ IF- 37 TO 38, FF- 39 TO 40/ ISI- 171, FSI- 94
 REC. 5' OF TF/ 5' OF VSOCM 2% OIL, 98% MUD/ BHT- 99/ CHLOR.- 3800

ROCK TYPES

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

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL

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

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

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

INTERVALS

- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

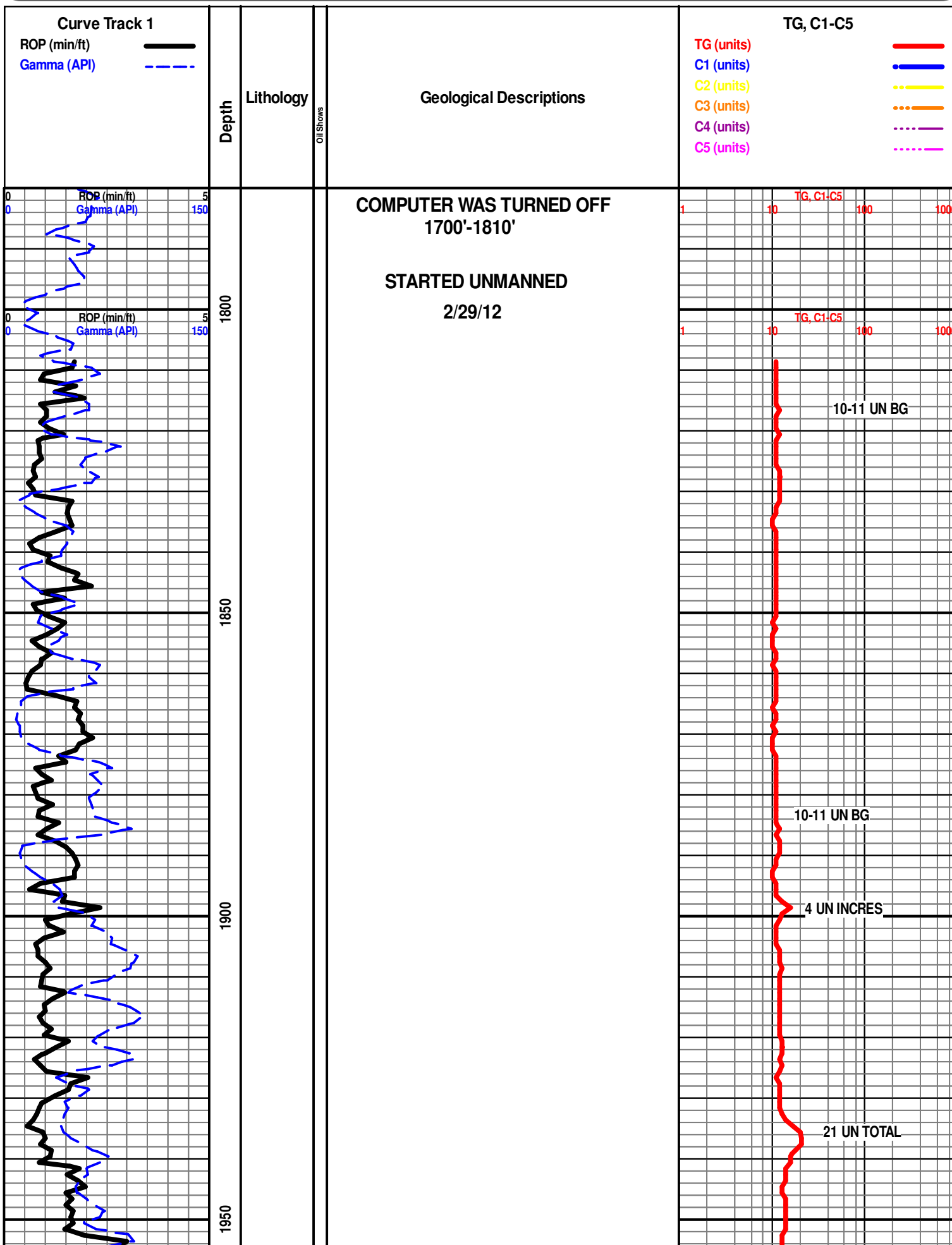
ROUNDING

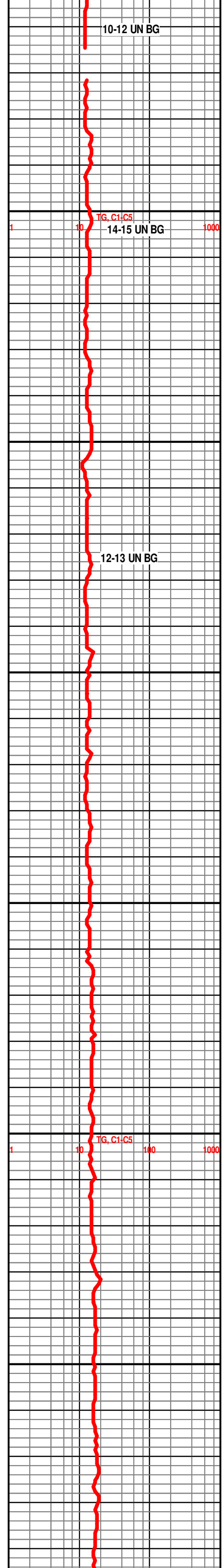
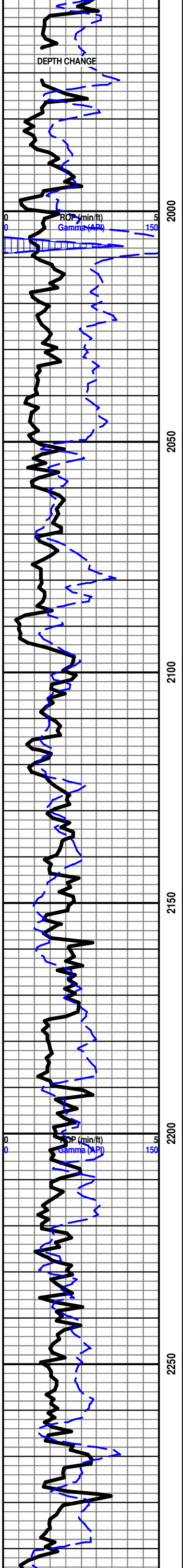
- Rounded
- Subrnd
- Subang

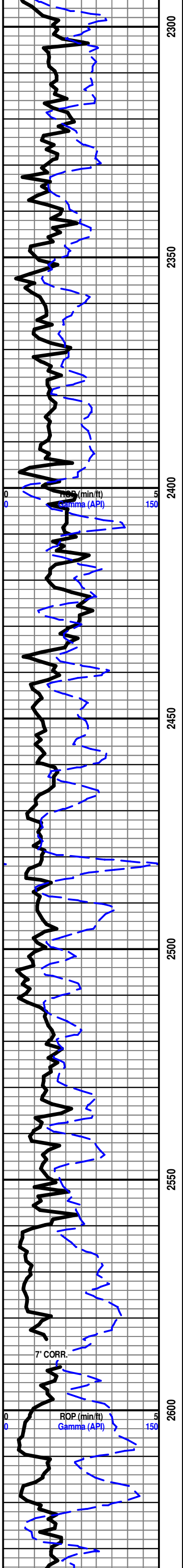
- Angular

OIL SHOWS

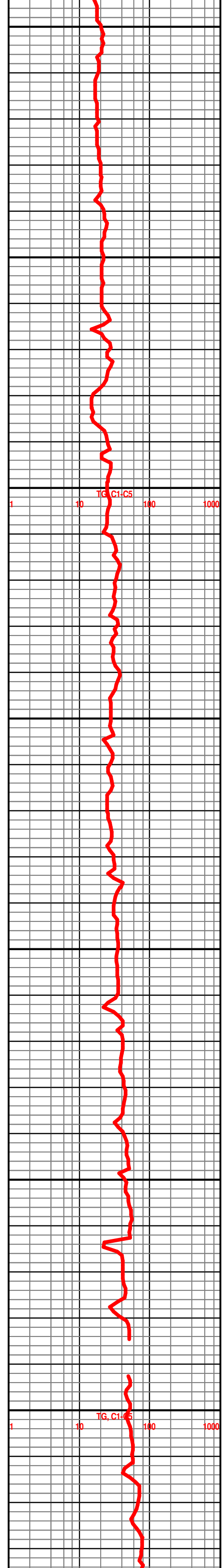
- Even
- Spotted
- Ques
- Dead
- Gas show



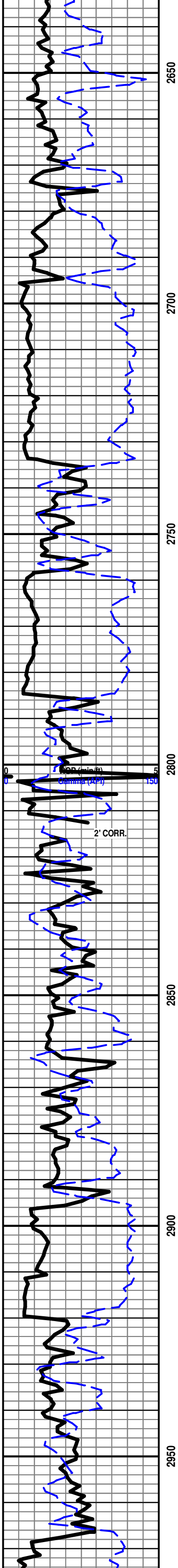




2300
2350
2400
2450
2500
2550
2600

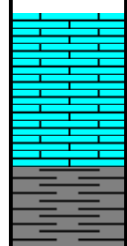


1
10
100
1000



2650
2700
2750
2800
2850
2900
2950

WOB (min-ft)
Gamma (API)
150
2' CORR.



BRS 2733' - 775'

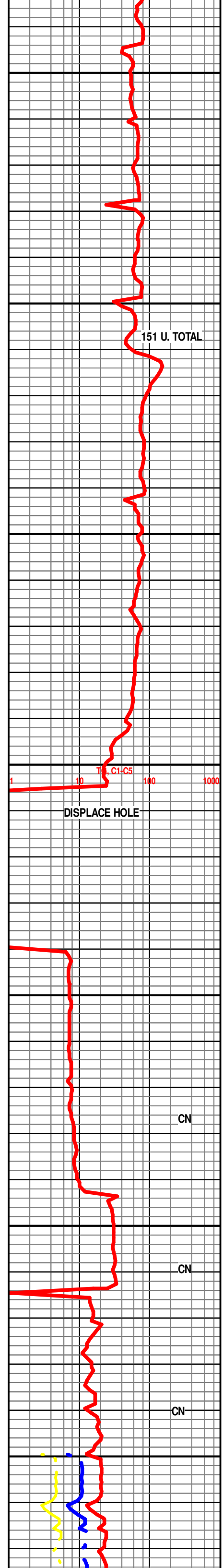
START 24 HR MANNED UNIT MARCH 01,2012

HOWARD 2919' - 961'

LS- CRM LT TN TN - HD DNS MD-F-XLN RE-XLN MTRX IP,
TR IMBD LT GY SH IP , TR FOSS FRGS, TR LT YEL MIN
FLO, NO VIS POR, NO VIS SHOW

SEVERY 2967' - 1009'

SH- LT GY TO DK GY- V/ SFT SLTY TXT TO TR CARB IP



151 U. TOTAL

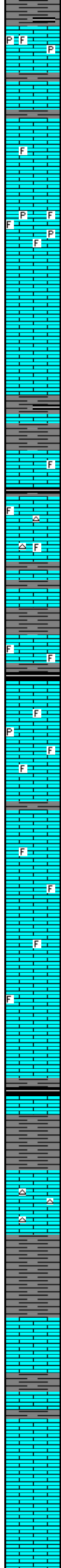
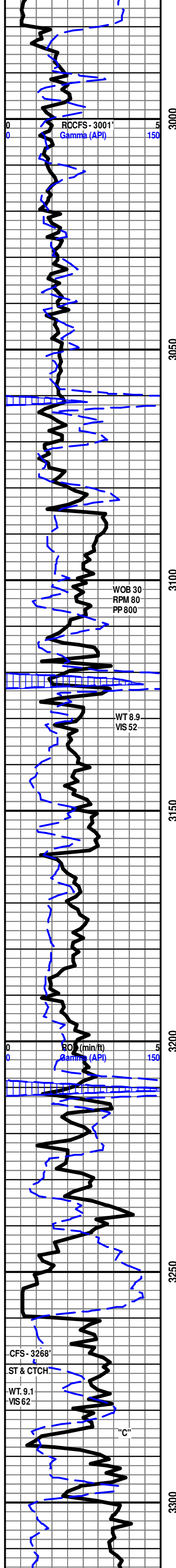
DISPLACE HOLE

1 10 100 1000

CN

CN

CN



TOPEKA 2979' - 1021'

LS- OFF WHT TO LT TN (TN STN IN 50%,) HD BRITT, V/ SUCRO MTRX, TR RE-XLN IP, TR FOSS FRGS SCAT IP, DISS PYR IP, BRIT YEL GLD FLO IN 50%, DLL YEL FLO IN 50%, PR TO TR FR SCAT MICRO PP POR IN 30%, GD FLSH CUT IN 60%, GD SLO STRM CUT IN 80%, NO ODOR, LT TN STN ON DISH

LS- CRM LT TN LT GY- HD DNS TR BRITT, MOTT, F-XLN IP TO MD-XLN, TR FOSS IP, HVY TR IMB DISS LT GY SH, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM BFF - MD-F-XLN RE-XLN MTRX IP SLI S-CHLKY IP, FOSS FRGS AND PYR FOSS FRGS IMBD IP, SCAT BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TN - HD DNS V/ TT SUCRO MTRX TO MD-XLN IP, SLI TR S-CHLKY, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

SH- GY DK GY- FRM BLKY SMTH TXT TO BLK SFT CARB, SLI CALC IP

LS- OFF WHT CRM LT TN - MD HD TO SFT IP, MD-F-XLN RE-XLN MTRX, TR S-CHLKY, IMBD FOSS FRGS IP, IMBD LT GY SH, NO FLO, NO VIS POR, NO VIS SHOW

LeCOMPTON 3085' - 1127'

LS- CRM LT TN - HD DNS MD-F-XLN RE-XLN MTRX IP, TR FOSS FRGS IP, WHT CHRT, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

SH- GRN DK GRN - FRM BLKY GRNY TXT

LS- OFF WHT CRM BFF- HD TO SFT, MD-XLN RE-XLN MTRX, ABDT SCAT SFT WHT CHLK THRU, SCAT FREE FOSS IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

LS- CRM LT TN BFF- HD DNS TO BRITT, MD-XLN TO SUCRO IP, S-CHLKY IP, TR FOSS FRGS, PYR DISS IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

SH-LT GRN - FRM BLKY SMTH TXT

LS- CRM BFF- HD DNS V/F-CRYTPO -XLN SLI TR IMBD CALC XLS IP, NO FLO, NO VIS POR, NO VIS SHOW

3158-3162- LS OFF WHT CRM- MD HD TO SFT IP, S-CHLKY TO V/ CHLKY IP, MD-XLN RE-XLN MTRX, FOSS FRGS IP, DOS STN SCAT IN 50%, NO FLO, PR VIS INTER-XLN POR IN LESS THAN 1%, NO VIS CUT OR SHOW

LS- CRM OFF WHT- (TR DOS IP) MD HD TO V/ SFT IP, V/ SUCRO MTRX S-CHLKY TO CHLKY IP, TR FOSS FRGS IP. NO FLO, NO VIS POR, NO VIS SHOW OR CUT

HEEBNER 3209' - 1251'

SH- BLK SFT CARB

SH- LT GRN - FRM BLKY SMTH TXT

LS-OFF WHT TO WHT- HD DNS IP TO V/ SFT, V/ SUCRO MTRX TO V/ SUCRO S-CHLKY TO CHLKY, ABDT WHT CHRT, BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3242' - 1284'

SH- LT GRY TO LT RED MOTT, FRM IP TO V/ SFT SLTY

LANSING 3260' - 1302'

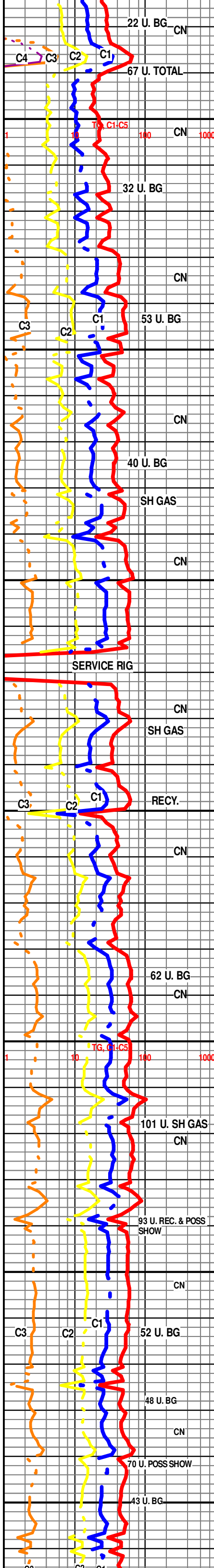
LS- OFF WHT CRM LT TN - HD DNS F-XLN IP TO V/ SUCRO S-CHLKY TO CHLKY MTRX THRU, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

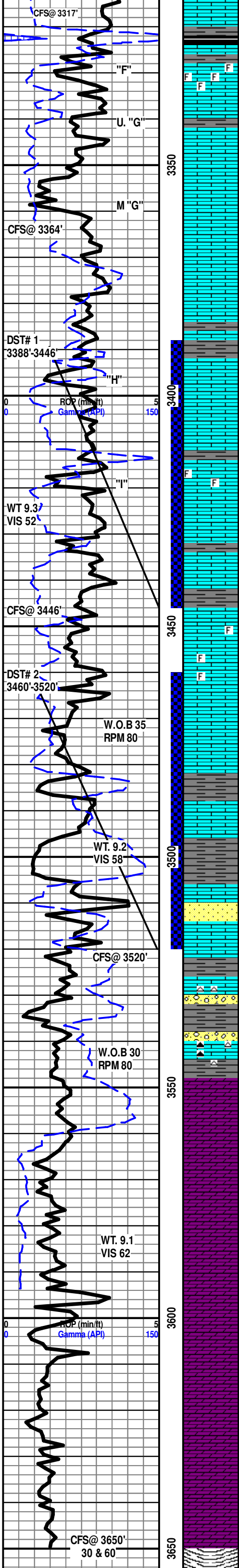
LANSING "C" 3284'-1326'

3284'-3288' LS- CRM BFF TO LT TN W/ V LT TN OIL STN IN 10%, HD DNS TO V-BRIT, S-CHLKY TO CHLKY MTRX, S-SUCRO IP, TR IMB FOSS IP, TR SFT WHT CHLK IP, NO FLO, SCAT FR TO TR GD MICRO VUG POR IN 60%, PR VUG POR IN 20%, NO FLSH CUT, V PR SLW STRM CUT IN 10%, NO LCH ON DSH, NO OIL ODOR

3296'-3299' LS- CRM TO LT TN, HD TO BRIT, MD-XLN MTRX, S-SUCRO IP, S-CHLKY IP, SCAT IMB SM CALC-XLS THRU, DUL YEL FLO IN 30%, PR VIS INTER-XLN POR IP, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, V HD DNS TO BRIT IP, F/VF-XLN MTRX, TR RE-XLN, S-SUCRO IP, S-CHLKY IP, V DUL YEL





LANSING "F" 3329'-1371'

3329'-3331' LS- CRM TO LT TN W/ DK TN OIL STN IN 50%, HD DNS TO BRIT, MD-XLN TO V RE-XLN MTRX, S-CHLKY IP, SCAT IMB FOSS THRU, TR IMB SFT WHT CHLK IP, DUL YEL GLD FLO IN 40%, SPTTD BRT YEL GLD FLO IN 20% NO FLO IN 40%, FR TO TR GD VIS INTER-FOSS POR, FR TO GD FLSH CUT IN 60%, FR SLW STRM CUT IN 50%, TN LCH ON DSH, GD OIL ODOR

3342'-3344' LS- OFF WHT TO CRM BFF W/ DK TN OIL STN IN 30%, V HD TO BRIT, MD/FN-XLN MTRX, S-SUCRO IP, S-CHLKY IP, IMB SM CALC-XLS IP, DUL YEL GLD FLO IN 30%, BRT YEL GLD FLO IN 10%, TR GD POSS FRACT POR, FR INTER-XLN POR IN 30%, FR FLSH CUT IN 20%, PR SLW STRM CUT IN 10%, LT TN LCH ON DSH, FR OIL ODOR

LS- CRM TO LT TN, HD DNS TO V-BRIT, MD-XLN MTRX, S-SUCRO IP, V OOLMOLDIC THRU, DUL YEL FLO IP, FR TO TR GD OOLMOLDIC POR THRU, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, MD-XLN RE-XLN MTRX, S-SUCRO IP, IMB CALC-XLS THRU, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

LANSING H 3392'-1434'

3394- 3397 LS-OFF WHT TO CRM TN (TN OIL STN IN 70%) 3 SMLL ROCKS)- HD DNS TO V BRIT IP, MD-XLN IP TO V SUCRO, IMBD SMLL CALC XLS IP, DLL YEL GLD FLO IN 60%, SPTTD BRIT YEL GLD FLO IN 20%, FR VIS INTER-XLN POR TO TR FR SCAT MICROVUG POR IN 10%, GD FLSH CUT IN 70%, GD SLO STRM CUT IN 70%, NO ODOR

SAMPLES V/ FINE GROUND

3416-3420 LS-OFF WHT TO WHT TN (TN SCAT STN THRU) HD DNS F-V/F-XLN, RE-XLN MTRX, FOSS FRGS IMBD IP, SMLL CALC XLS IP, DLL YEL GLD FLO SCAT THRU, PR VIS SCAT INTERXLN & PR SCAT INTERFOSS POR IP, POSS FRACT POR IP, FR FLSH CUT IN 50%, FR TO GD SLO STRM CUT IN 70%, LT TN LCH ON DISH, NO ODOR

SH- MD TO DK GY - HD SPLNTY TO FRM BLKY

LS- OFF WHT TO CRM, HD DNS TO BRIT, MD-F-XLN MTRX, S-SCURO IP, SCAT IMB FOSS FRAGS THRU, DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM BFF, HD TO V-BRIT, MD-F-XLN, CHLKY MTRX, SCAT SFT WHT CHLK THRU, TR PYR IP, DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

BKC 3495'-1537'

SH- LT GRN TO GY W/ RD GMMY SH THRU

3513'-3514' SS- WHT TO OFF WHT CRM, MD TO CRS GRNS, FR SRT, CLR TO FRSTY ANG TO S-ANG QRTZ GRNS, SIL IN 50%, CALC CMNT IN 50%, SPTTD BRT YEL GLD FLO IP, DUL YEL GLD FLO IN 20%, PR TO FR TO TR GD INTER-GRN POR IN 20%, PR FLSH CUT IN 20%, PR TO TR FR SLW STRM CUT IN 30%, LT TN LCH ON DSH, FR OIL ODOR

SH- RD TO DK RED, V GMMY THRU

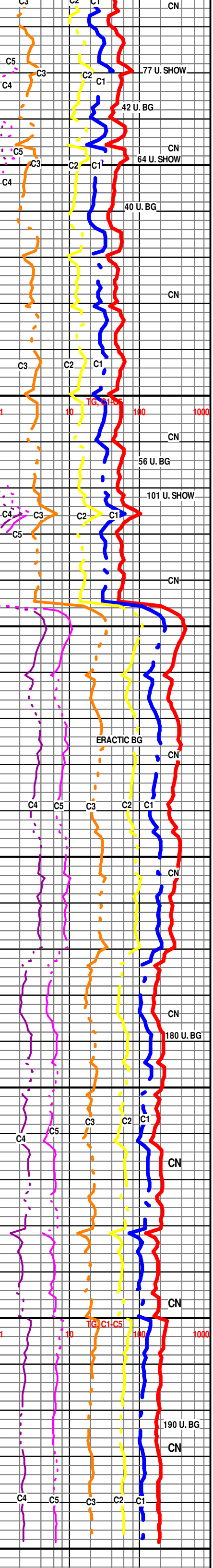
ARBUCKLE 3547'-1589'

DOLO- WHT TO OFF WHT, HD DNS TO BRIT IP, F/NF-XLN MTRX, S-SUCRO IP, ABTD IMB SM S-ANG DOLO GRNS THRU, TR IMB SFT WHT CHLK IP, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

DOLO- WHT TO OFF WHT, HD DNS TO BRIT, MD-F-XLN MTRX, TR RE-XLN IP, ABTD IMB SM TO MD ANG TO S-ANG DOLO GRNS THRU, TR IMB SFT WHT CHLK IP, DUL YEL FLO IN 50%, NO FLO IN 50%, NO VIS POR, NO VIS SHOW

DOLO- WHT TO OFF WHT, HD DNS TO BRIT, MD-XLN RE-XLN MTRX, S-SUCRO THRU, ABTD IMB SM TO MD ANG DOLO GRNS THRU, IMB SM S-ANG CLR QRTZ GRNS IP, V DUL YEL FLO IP, TR V PR INTER-XLN POR, NO VIS CUT OR SHOW

DOLO- OFF WHT TO CRM, V HD DNS TO BRIT IP, F-XLN MTRX, S-SUCRO THRU, ABTD IMB SM TO MD S-ANG DOLO GRNS THRU, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW



R.T.D. @ 3650'

CTCH 1.5 HRS

R.T.D. @ 3:15 P.M. 3/04/12

DROP SURVEY

T.O.F LOGS @ 4:45 P.M.

WEATHERFORD LIBERAL, KS

R.T.D. @ 3650'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

SCHUYLER & TIM HEDRICK

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