KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1050037

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: CLAYTON CAMOZZI
Phone: (303) 831-4673
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: TIM HEDRICK
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [x] D&A
- [ ] ENHR
- [ ] SIGW
- [ ] OG
- [ ] GSW
- [ ] Temp. Abd.
- [ ] CM *(Coal Bed Methane)*
- [ ] Cathodic
- [ ] Other *(Core, Expl., etc.)*:

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

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

- [ ] Deepening
- [ ] Re-perf.
- [ ] Conv. to ENHR
- [ ] Conv. to SWD
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

09/30/2010	10/09/2010	10/09/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-21900-00-00
Spot Description:
SW - NW - SE - NE Sec. 15 Twp. 17 S. R. 16 [ ] East [x] West
1740 Feet from [x] North / [ ] South Line of Section
1060 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW
County: Rush
Lease Name: JUNO Well #: 1-15
Field Name:
Producing Formation: N/A
Elevation: Ground: 2001 Kelly Bushing: 2009
Total Depth: 3699 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1104 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 37000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: H&W OIL COMPANY
Lease Name: BOXBERGER A License #: 33700
Quarter NW Sec. 32 Twp. 13 S. R. 14 [ ] East [x] West
County: ELLIS Permit #: D23310

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

- [x] Letter of Confidentiality Received
  Date: 01/27/2011
- [x] Confidential Release Date: 01/26/2013
- [x] Wireline Log Received
- [x] Geologist Report Received
- [ ] UIC Distribution

ALT [x] I [ ] II [ ] III Approved by: NAOMI JAMES Date: 01/28/2011

Side Two

1050037

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: JUNO Well #: 1-15

Sec. 15 Twp. 17 S. R. 16 ☐ East ☑ West County: Rush

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
TOPEKA	3000	-991
HEEBNER	3237	-1228
DOUGLAS	3270	-1261
LANSING	3297	-1288
ARBUCKLE	3563	-1554
TD	3699	

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	23	1104	CLASS A	400	2%GEL, 3%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	JUNO 1-15
Doc ID	1050037

All Electric Logs Run

MICRO RESISTIVITY
DENSITY
ARRAY INDUCTION
SONIC

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

Kansas
Corporation Commission

phone: 316-337-6200
fax: 316-337-6211
http://kcc.ks.gov/

January 27, 2011

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

Re: ACO1
API 15-165-21900-00-00
JUNO 1-15
NE/4 Sec.15-17S-16W
Rush County, Kansas

Dear Production Department:

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

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

Respectfully,
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: 10/4/2010
Invoice # 4544
P.O.#:
Due Date: 11/3/2010
Division: *Russell*

Invoice

Contact:
Samuel Gary Jr & Associates Inc
Address/Job Location:
Samuel Gary Jr & Associates Inc
3111 W. 10th Street
Great Bend, KS 67503

Reference:
JUNO 1-15

Description of Work:
LONG SURFACE JOB

Services / Items Included:	*Quantity*	*Price*	*Taxable*
Labor		$ 634.32	No
Common-Class A	400	$ 4,680.00	Yes
8 5/8" Basket	3	$ 948.00	Yes
Bulk Truck Matl-Material Service Charge	422	$ 844.00	No
Calcium Chloride	14	$ 527.24	Yes
Pump Truck Mileage-Job to Nearest Camp	33	$ 329.34	No
Flo Seal	100	$ 200.00	Yes
8 5/8" Centralizer	3	$ 192.00	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	33	$ 192.72	No
Premium Gel (Bentonite)	8	$ 130.24	Yes
8 5/8" Top Rubber Plug	1	$ 106.00	Yes

Item	*Quantity*	*Price*	*Taxable*
Baffle Plate Aluminum, 8 5/8"	1	$90.00	Yes

Invoice Terms:
Net 30

SubTotal:	$	*8,873.86*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,331.08)
SubTotal for Taxable Items:	$	5,842.46
SubTotal for Non-Taxable Items:	$	1,161.15
Total:	$	7,542.78
6.30% Rush County Sales Tax Tax:	$	368.07
Amount Due:	**$**	**7,910.86**
Applied Payments:		
Balance Due:	**$**	**7,910.86**

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.

☑ DRLG ☐ COMP ☐ W/O ☐ LOE
AFE #
ACCT. # 8200-138
APPROVED BY

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 4544
Cell 785-324-1041

	Sec.	Twp.	Range	County	State	On Location	Finish
Date 10-1-10				Rush	Kansas		3:15pm

Lease Juno Well No. 1-15 Location Bolton 4W 4S 1E

Contractor Discovery Drilling Rig 2 Owner

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 12¼ T.D. 1104

Csg. 8⅝ 23lb Depth 1104

Tbg. Size Depth Charge To Stanley Gray Jr. & Associates

Tool Baffle Plate Depth Street

Cement Left in Csg. 42' Shoe Joint 42' City State

Meas Line Displace 67½ Bbl The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 400 Com 3%CC 2%Gel ¼lb Flo Seal per sk

EQUIPMENT

Pumptrk 5	No.	Cementer / Helper	Steve
Bulktrk 4	No.	Driver	Paul
Bulktrk	No.	Driver / Driver	Doug

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers 1 16 22

Baskets 7 16 26

D/V or Port Collar

Thank You

X Signature

Common	400
Poz. Mix	
Gel.	8
Calcium	14
Hulls	
Salt	
Flowseal	100 lb
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	422
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	
	1 Baffle Plate
	1 8⅝ Rubber Plug
Pumptrk Charge	Long Surface
Mileage	33
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: 10/11/2010
Invoice # 4327

P.O.#:

Due Date: 11/10/2010
Division: *Russell*

Invoice

Contact:
Samuel Gary Jr & Associates Inc
Address/Job Location:
Samuel Gary Jr & Associates Inc
3111 W. 10th Street
Great Bend, KS 67503

☑ DRLG ☐ COMP ☐ W/O ☐ LOE
AFE #
ACCT. # 8200-138
APPROVED BY KDS

Reference:
JUNO 1-15

Description of Work:
PLUG JOB

Services / Items Included:	Quantity		Price	Taxable	Item	Quantity	Price	Taxable
Labor		$	963.85	No				
Common-Class A	120	$	1,482.00	Yes				
Bulk Truck Matl-Material Service Charge	207	$	437.00	No				
POZ Mix-Standard	80	$	388.44	Yes				
Pump Truck Mileage-Job to Nearest Camp	33	$	347.64	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	33	$	203.43	No				
Premium Gel (Bentonite)	7	$	120.29	Yes				
Dry Hole Plug	1	$	59.11	Yes				

Invoice Terms:
Net 30

SubTotal:	$	*4,001.76*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(600.26)
SubTotal for Taxable Items:	$	1,742.37
SubTotal for Non-Taxable Items:	$	839.85
Total:	$	3,401.50
6.30% Rush County Sales Tax Tax:	$	109.77
Amount Due:	**$**	**3,511.26**
Applied Payments:		
Balance Due:	**$**	**3,511.26**

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.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665
Cell 785-324-1041

No. 4327

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-8-10	15	17	16	Rush	KS		7:30p.m.

Lease Juno Well No. 1-15 Location Galatia W to 390 Rd S to "J" Rd 1 1/4 W S into

Contractor Discovery #2		Owner	
Type Job PTA		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 7 7/8	T.D. 3700		
Csg.	Depth	Charge To Sam Gary	
Tbg. Size	Depth	Street	
Tool	Depth	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 200 6/40 4% gel 1/4# flo	

EQUIPMENT

	No.		
Pumptrk 5	No.	Cementer Craig	
		Helper	
Bulktrk	No.	Driver Paul	
		Driver	
Bulktrk 10	No.	Driver	
		Driver Coby	

Common 120	
Poz. Mix 80	
Gel. 7	
Calcium	
Hulls	
Salt	
Flowseal 50#	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling 207	
Mileage	

JOB SERVICES & REMARKS

Remarks:
Rat Hole 30sk
Mouse Hole 20sk
Centralizers
Baskets
D/V or Port Collar

3560	50sk
1130	50sk
480	30sk
60'	20sk

Thanks

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down 8 5/8 Wooden Plug	
Pumptrk Charge	
Mileage 33	
Tax	
Discount	
Total Charge	

X Signature [signature]

Notice: *Fill out COMPLETELY and return to Conservation Division at the address below within 60 days from plugging date.*

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1045544

Form CP-4
March 2009
Type or Print on this Form
Form must be Signed
All blanks must be Filled

WELL PLUGGING RECORD

K.A.R. 82-3-117

OPERATOR: License #: 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + ____
Contact Person: CLAYTON CAMOZZI
Phone: (303) 831-4673
Type of Well: *(Check one)* ☑ Oil Well ☐ Gas Well ☐ OG ☐ D&A ☐ Cathodic
☐ Water Supply Well ☐ Other: ☐ SWD Permit #:
☐ ENHR Permit #: ☐ Gas Storage Permit #:
Is ACO-1 filed? ☐ Yes ☑ No If not, is well log attached? ☐ Yes ☐ No
Producing Formation(s): List All *(If needed attach another sheet)*
Depth to Top: Bottom: T.D.
Depth to Top: Bottom: T.D.
Depth to Top: Bottom: T.D.

API No. 15 - 15-165-21900-00-00
Spot Description:
SW - NW - SE - NE Sec. 15 Twp. 17 S. R. 16 ☐ East ☑ West
1,740 Feet from ☑ North / ☐ South Line of Section
1,060 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
County: Rush
Lease Name: JUNO Well #: 1-15
Date Well Completed: 10/8/2010
The plugging proposal was approved on: *(Date)*
by: ERIC STAPLETON *(KCC **District** Agent's Name)*
Plugging Commenced: 10/8/2010
Plugging Completed: 10/8/2010

Show depth and thickness of all water, oil and gas formations.

Oil, Gas or Water Records		*Casing Record (Surface, Conductor & Production)*			
Formation	Content	Casing	Size	Setting Depth	Pulled Out
		SURFACE	8.6250	1178	0

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

CEMENT PLUGS SET THROUGH DRILL PIPE (150 SX 60/40 POZ WITH 4% GEL, 1/4 #/SK FLOW SEAL)
50 SX @ 3560', 50 SX @ 1030', 30 SX @ 480', 20 SX @ 60' TO THE SURFACE
30 SX IN RATHOLE, 20 SX IN MOUSEHOLE

Plugging Contractor License #: 31548 Name: Discovery Drilling
Address 1: PO BOX 763 Address 2:
City: HAYS State: KS Zip: 67601 + 0763
Phone: (785) 623-2920
Name of Party Responsible for Plugging Fees: SAMUEL GARY JR. & ASSOCIATES, INC.
State of COLORADO County, DENVER , ss.
CLAYTON CAMOZZI *(Print Name)* ☑ Employee of Operator or ☐ Operator on above-described well,

being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.

Submitted Electronically

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

1515 Wynkoop Ste. 700
Denver,Co 80202

ATTN: Clayton Camozzi

Juno 1-15

15/17S/16W-Rush

Job Ticket: 41076 **DST#: 1**

Test Start: 2010.10.05 @ 00:45:47

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:27:47
Time Test Ended: 10:35:17

Test Type: Conventional Bottom Hole
Tester: Dustin Rash
Unit No: 31

Interval: 3306.00 ft (KB) To 3356.00 ft (KB) (TVD)
Total Depth: 3356.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

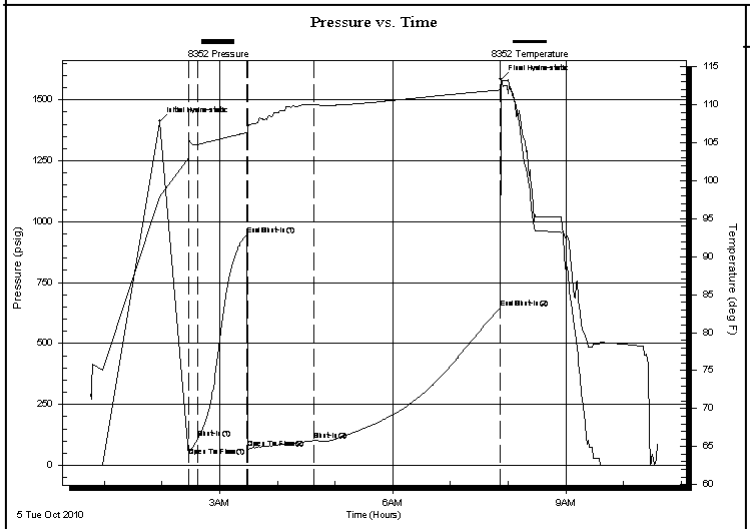
Reference Elevations: 2009.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8352 **Outside**

Press@RunDepth: 101.71 psig @ 3345.00 ft (KB)
Start Date: 2010.10.05 End Date: 2010.10.05
Start Time: 00:45:52 End Time: 10:35:17

Capacity: 8000.00 psig
Last Calib.: 2010.10.05
Time On Btm: 2010.10.05 @ 01:57:47
Time Off Btm: 2010.10.05 @ 07:52:26

TEST COMMENT: IF-Weak building blow . Built to 3 inches.
ISI-No Return.
FF-Fair building blow . Built to 8 inches.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1411.20	97.92	Initial Hydro-static
30	38.17	103.03	Open To Flow (1)
40	109.70	104.78	Shut-In(1)
91	945.16	106.32	End Shut-In(1)
92	72.06	106.92	Open To Flow (2)
161	101.71	109.98	Shut-In(2)
355	646.76	111.94	End Shut-In(2)
355	1584.08	112.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	60%Mud/20%Oil/20%Gas	1.68
40.00	100%Mud/Oil-skim	0.56

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc.

1515 Wynkoop Ste. 700
Denver,Co 80202

ATTN: Clayton Camozzi

Juno 1-15

15/17S/16W-Rush

Job Ticket: 41076 **DST#: 1**

Test Start: 2010.10.05 @ 00:45:47

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:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5400.00 ppm				
Filter Cake:	inches				

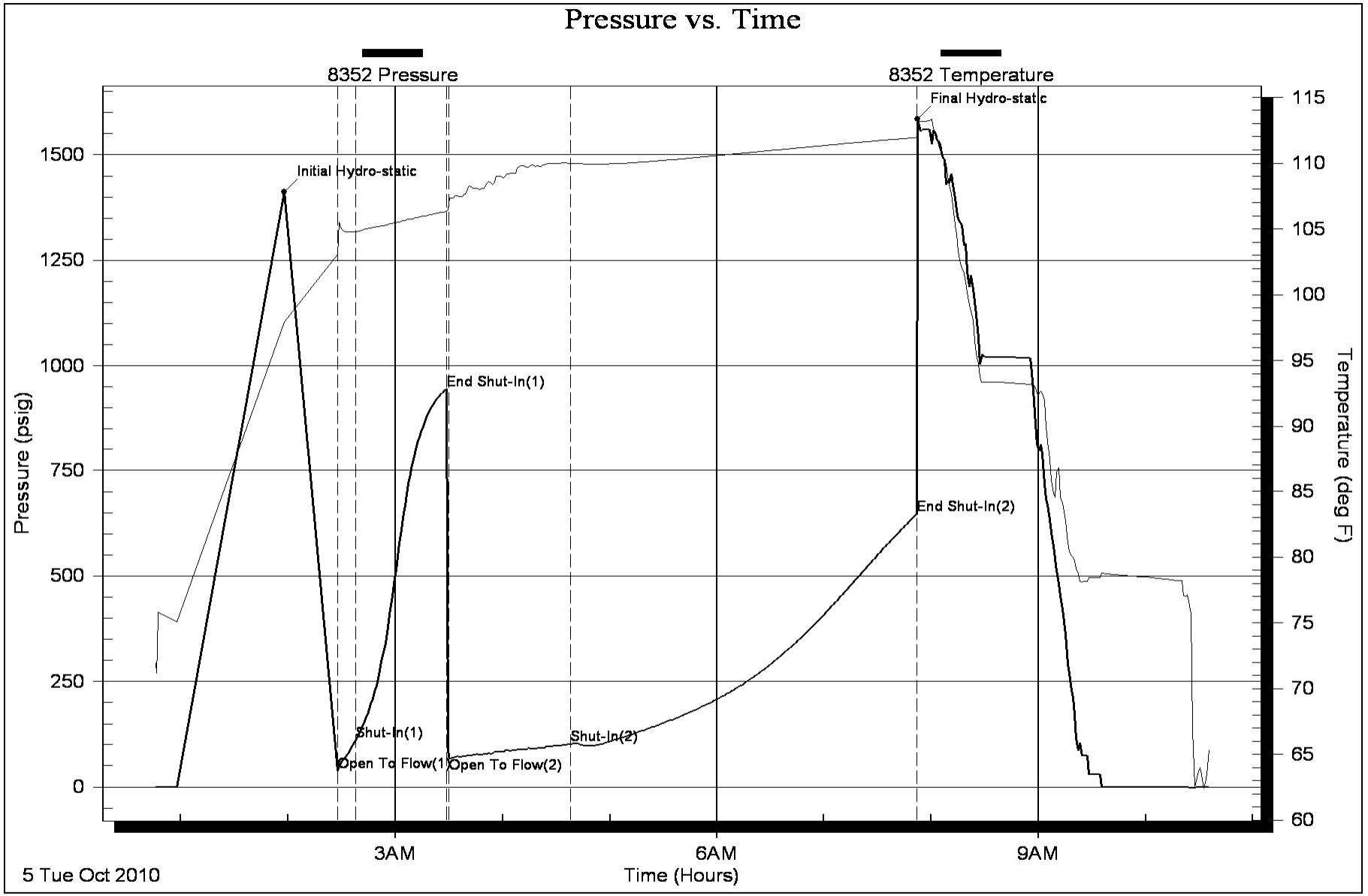
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	60%Mud/20%Oil/20%Gas	1.683
40.00	100%Mud/Oil-skim	0.561

Total Length: 160.00 ft Total Volume: 2.244 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8352 Pressure
8352 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75
70
65
60
3AM
6AM
9AM
5 Tue Oct 2010
Time (Hours)

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

1515 Wynkoop Ste. 700
Denver,Co 80202

ATTN: Clayton Camozzi

Juno 1-15

15/17S/16W-Rush

Job Ticket: 41077 **DST#: 2**

Test Start: 2010.10.05 @ 19:14:37

GENERAL INFORMATION:

Formation: **Lansing F&G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:56:57
Time Test Ended: 03:10:16

Test Type: Conventional Bottom Hole
Tester: Dustin Rash
Unit No: 31

Interval: 3360.00 ft (KB) To 3390.00 ft (KB) (TVD)
Total Depth: 3390.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

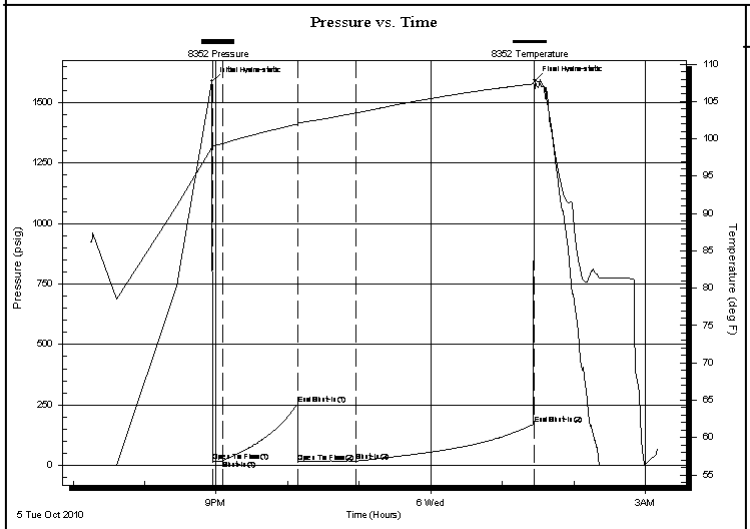
Reference Elevations: 2009.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8352 **Outside**

Press@RunDepth: 17.77 psig @ 3361.00 ft (KB)
Start Date: 2010.10.05 End Date: 2010.10.06
Start Time: 19:14:42 End Time: 03:10:16

Capacity: 8000.00 psig
Last Calib.: 2010.10.06
Time On Btm: 2010.10.05 @ 20:56:37
Time Off Btm: 2010.10.06 @ 01:27:17

TEST COMMENT: IF-Weak building blow . Built to 1 inches.
ISI-No Return.
FF-Weak building blow .Built to 3 inches.
FSI- No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.27	98.87	Initial Hydro-static
1	19.13	99.11	Open To Flow (1)
9	20.42	99.38	Shut-In(1)
72	251.48	101.97	End Shut-In(1)
72	13.37	101.94	Open To Flow (2)
121	17.77	103.48	Shut-In(2)
270	170.95	107.36	End Shut-In(2)
271	1591.73	107.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	95%Mud/5%Oil	0.28

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc.

1515 Wynkoop Ste. 700
Denver,Co 80202

ATTN: Clayton Camozzi

Juno 1-15

15/17S/16W-Rush

Job Ticket: 41077 **DST#: 2**

Test Start: 2010.10.05 @ 19:14:37

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:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6400.00 ppm				
Filter Cake:	inches				

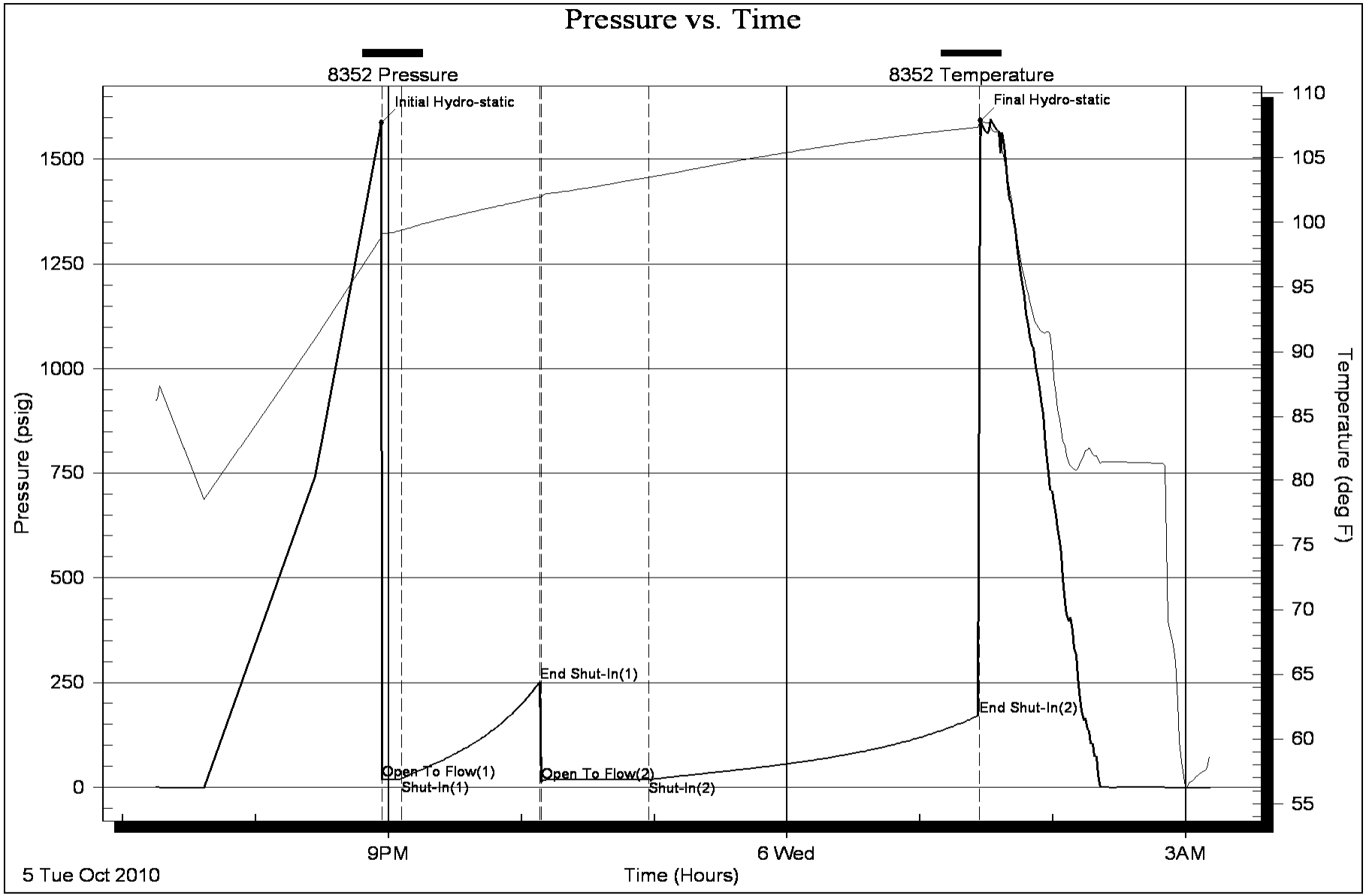
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	95%Mud/5%Oil	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8352 Pressure
8352 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
80
75
70
65
60
55
9PM
6 Wed
3AM
5 Tue Oct 2010
Time (Hours)

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

1515 Wynkoop Ste. 700
Denver,Co 80202

ATTN: Clayton Camozzi

Juno 1-15

15/17S/16W-Rush

Job Ticket: 41078 **DST#: 3**

Test Start: 2010.10.06 @ 19:04:37

GENERAL INFORMATION:

Formation: **Lansing I,J,&K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:46:37
Time Test Ended: 02:01:07

Test Type: Conventional Bottom Hole
Tester: Dustin Rash
Unit No: 31

Interval: 3454.00 ft (KB) To 3500.00 ft (KB) (TVD)
Total Depth: 3500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

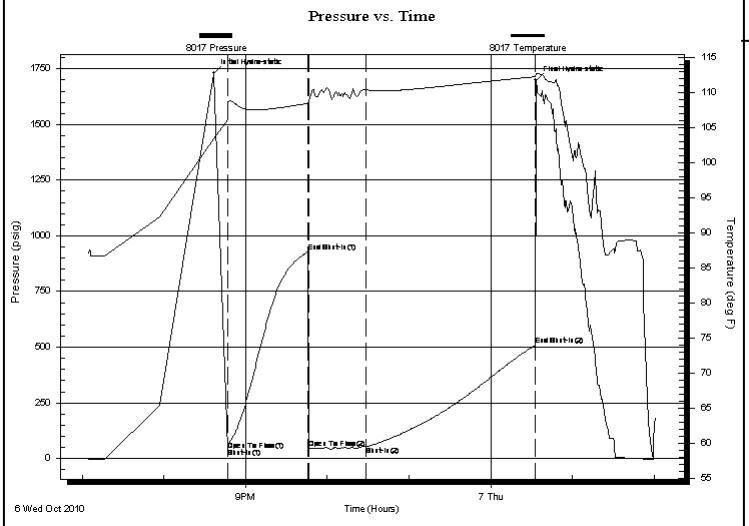
Reference Elevations: 2009.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8017 **Inside**

Press@RunDepth: 53.65 psig @ 3488.00 ft (KB)
Start Date: 2010.10.06 End Date: 2010.10.07
Start Time: 19:04:42 End Time: 02:01:06

Capacity: 8000.00 psig
Last Calib.: 2010.10.07
Time On Btm: 2010.10.06 @ 20:36:37
Time Off Btm: 2010.10.07 @ 00:33:16

TEST COMMENT: IF-Weak blow .Built to1inch.
ISI-No Return.
FF-Weak steady surface blow .
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.55	103.34	Initial Hydro-static
10	38.11	106.08	Open To Flow (1)
11	47.65	108.63	Shut-In(1)
69	927.34	108.42	End Shut-In(1)
70	44.77	108.38	Open To Flow (2)
112	53.65	110.35	Shut-In(2)
236	507.46	112.22	End Shut-In(2)
237	1697.76	112.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100%Mud	0.42

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc.

1515 Wynkoop Ste. 700
Denver,Co 80202

ATTN: Clayton Camozzi

Juno 1-15

15/17S/16W-Rush

Job Ticket: 41078 **DST#: 3**

Test Start: 2010.10.06 @ 19:04:37

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:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.00 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	inches				

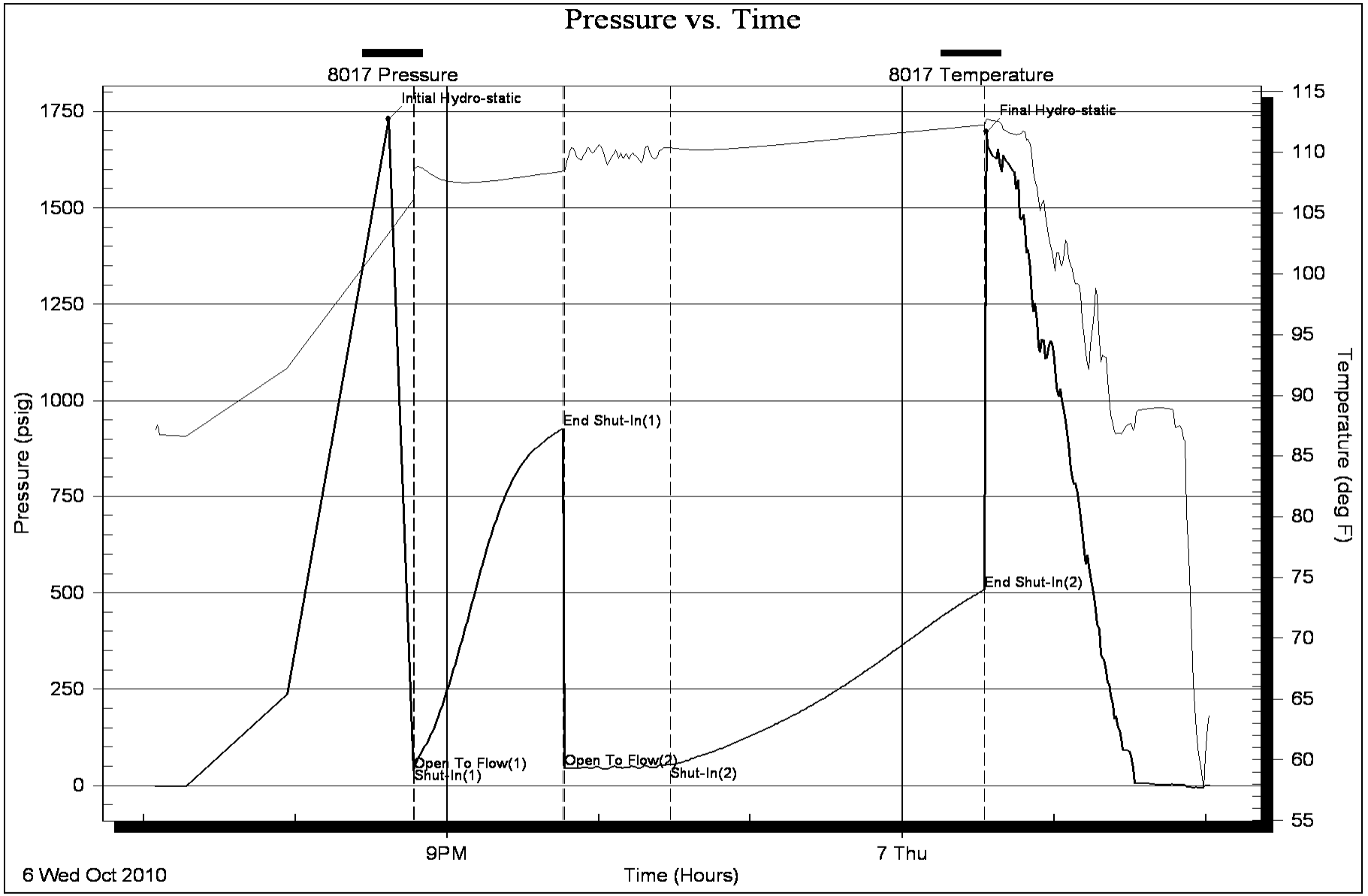
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100%Mud	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8017 Pressure
8017 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75
70
65
60
55
9PM
7 Thu
6 Wed Oct 2010
Time (Hours)

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

1515 Wynkoop Ste. 700
Denver,Co 80202

ATTN: Clayton Camozzi

Juno 1-15

15/17S/16W-Rush

Job Ticket: 41079 **DST#: 4**

Test Start: 2010.10.07 @ 13:39:16

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:25:16
Time Test Ended: 20:20:55

Test Type: Conventional Bottom Hole
Tester: Dustin Rash
Unit No: 31

Interval: 3568.00 ft (KB) To 3576.00 ft (KB) (TVD)
Total Depth: 3576.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

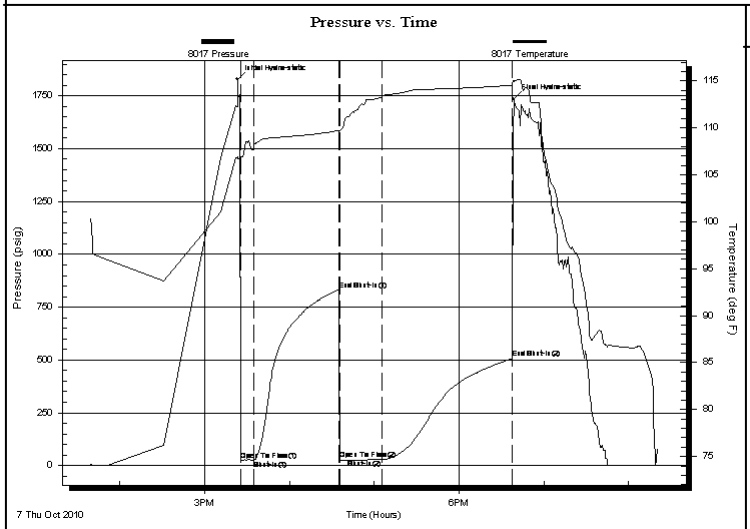
Reference Elevations: 2009.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8017 **Inside**

Press@RunDepth: 28.69 psig @ 3569.00 ft (KB)
Start Date: 2010.10.07 End Date: 2010.10.07
Start Time: 13:39:21 End Time: 20:20:55

Capacity: 8000.00 psig
Last Calib.: 2010.10.07
Time On Btm: 2010.10.07 @ 15:23:16
Time Off Btm: 2010.10.07 @ 18:38:36

TEST COMMENT: IF- Weak surface blow . Built to 1/2 inch.
ISI- No Return.
FF- Weak surface blow . Died off and on.
FSI- No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.63	106.88	Initial Hydro-static
2	25.47	105.63	Open To Flow (1)
12	26.94	108.18	Shut-In(1)
72	832.65	109.70	End Shut-In(1)
73	28.73	109.59	Open To Flow (2)
102	28.69	113.29	Shut-In(2)
195	506.70	114.56	End Shut-In(2)
196	1736.20	115.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%Mud/Skim Oil	0.21

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc.

1515 Wynkoop Ste. 700
Denver,Co 80202

ATTN: Clayton Camozzi

Juno 1-15

15/17S/16W-Rush

Job Ticket: 41079 **DST#: 4**

Test Start: 2010.10.07 @ 13:39:16

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7200.00 ppm				
Filter Cake:	inches				

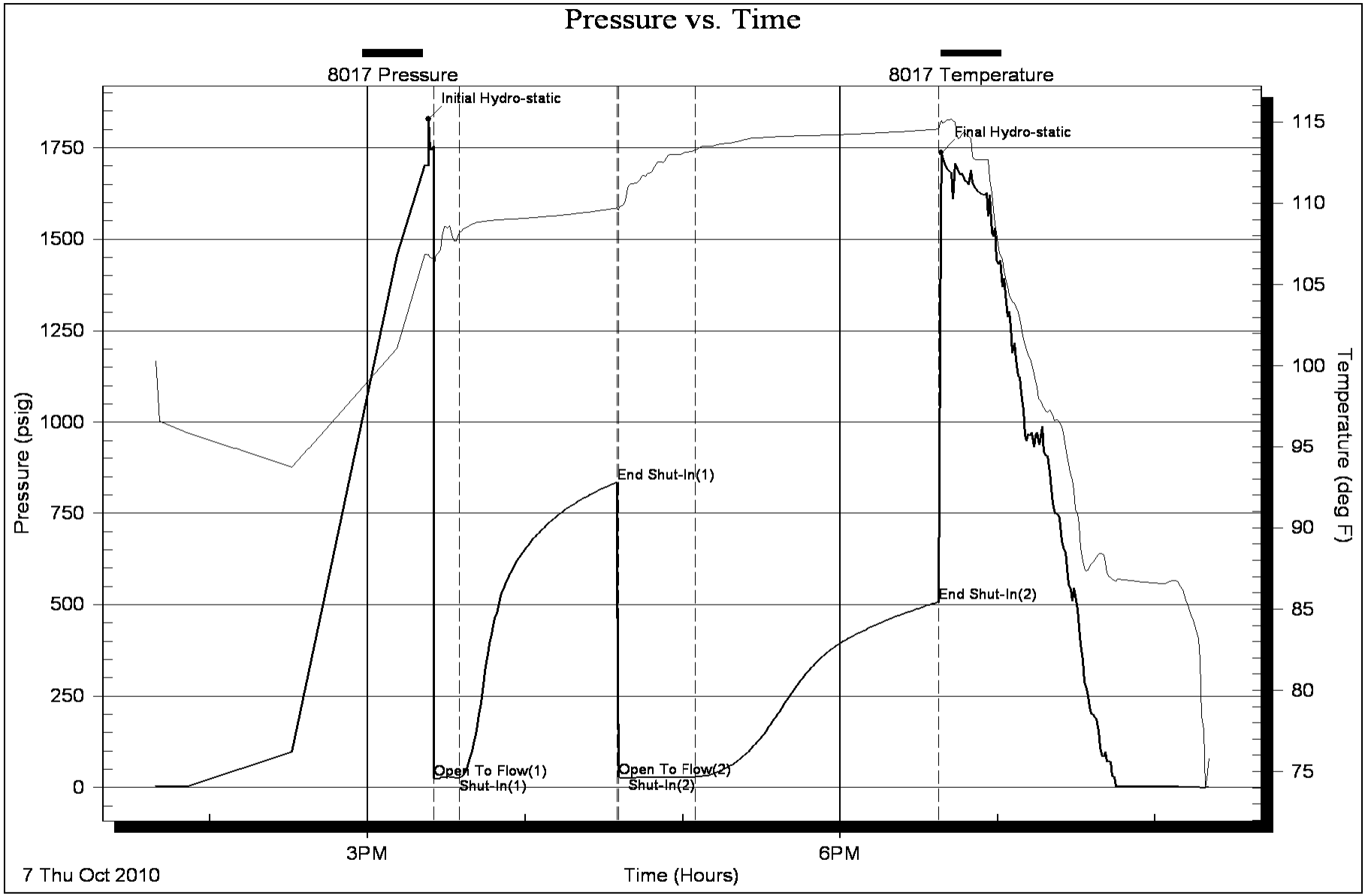
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100%Mud/Skim Oil	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8017 Pressure
8017 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75
3PM
6PM
7 Thu Oct 2010
Time (Hours)

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

Well Name:	JUNO 1-15		
Location:	SEC 15, T17 S, R16W, RUSH COUNTY , KANSAS		
License Number:	15-165-219-000000	Region:	Wildcat
Spud Date:	09/30/2010	Drilling Completed:	10/08/10
Surface Coordinates:	1740' Fnl & 1060' Fel		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2001''	K.B. Elevation (ft):	2009''
Logged Interval (ft):	1966' To: 3700'	Total Depth (ft):	3700'
Formation:	Lansing, Arbuckle		
Type of Drilling Fluid:			

OPERATOR

Company: Samuel Gary Jr, & Assoc.
Address: 1515 Wykoop, Ste. # 700
Denver, Colo. 80202
Geo: Clayton Camozzi

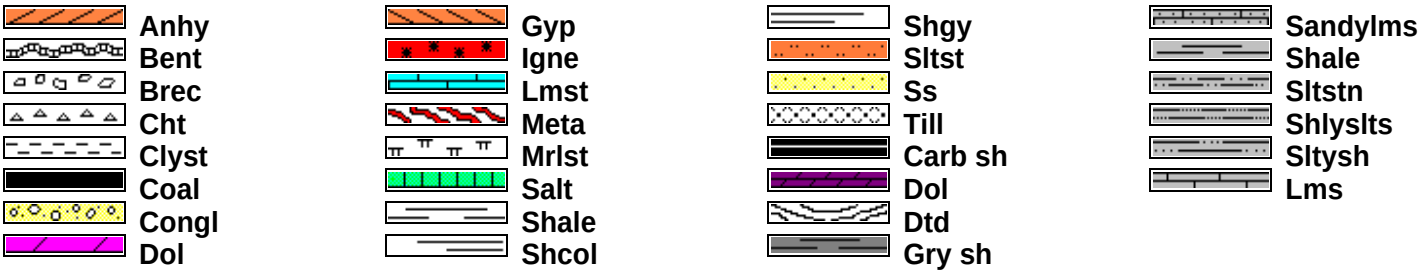
GEOLOGIST

Name: Jason Marshall
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 253-970-4023

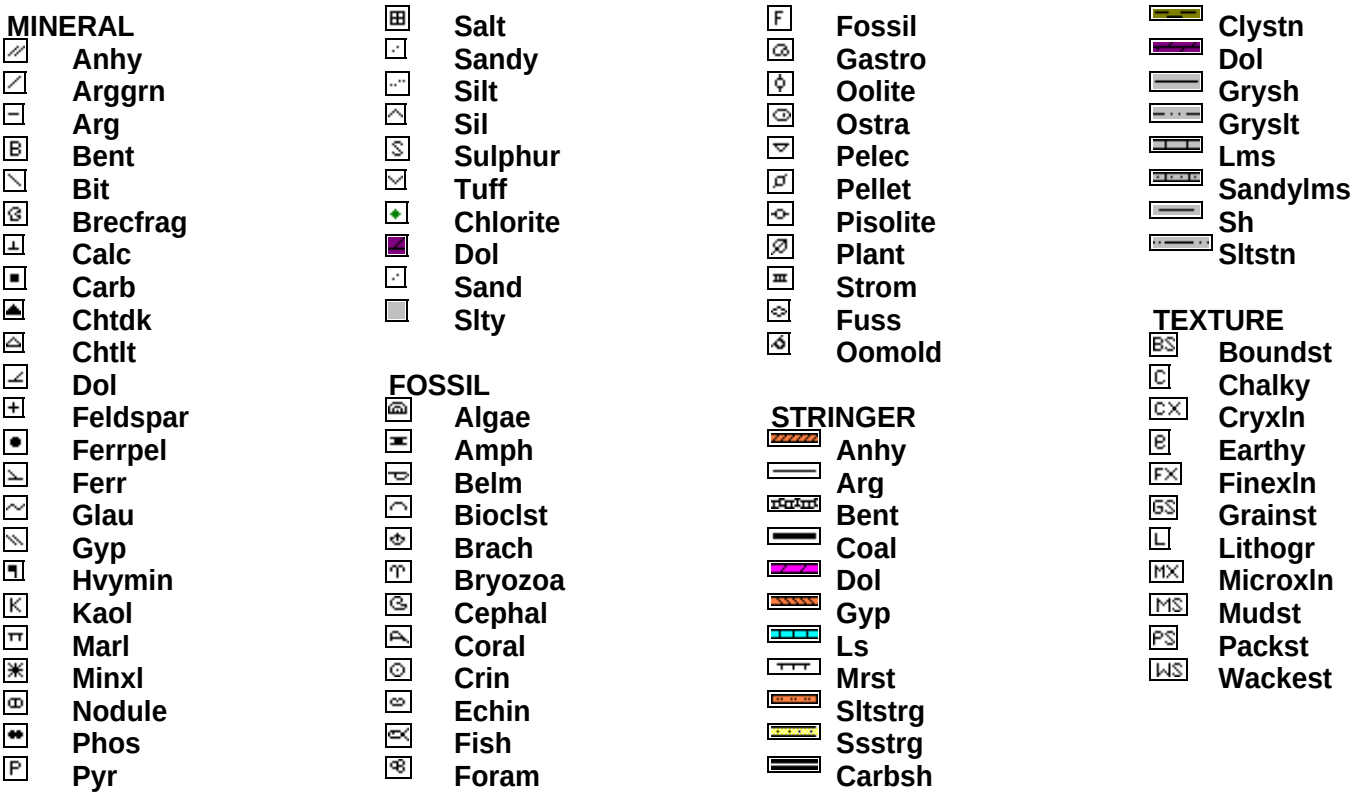
DST's Report

DST#1 3306' TO 3356' 10 60 60 180/
IF- WEAK BUILDING BLOW.BUILT TO 3"/ FSI NO RETURN, FF- FAIR BUILDING BLOW, BUILT IN 8"/ FSI NO RETURN
IH- 1411, FH- 1584/ IF- 48, FF- 110/ ISI- 945#, FSI- 647#
Recovered 160' TF, mud- 100% m., MOG 20%G 20% OIL 60% MUD/ Chlorides 0, BHT 112
DST#2 3360' TO 3390' 10 60 45 130/
IF- WEAK BUILDING BLOW.BUILT TO 1"/ FSI NO RETURN, FF- WEAK BUILDING BLOW, BUILT IN 3"/ FSI NO RETURN,
IH- 1587, FH- 1592/ IF- 19, FF- 20/ ISI- 251#, FSI- 171#
Recovered 20' TF, 5% OIL, 95% MUD/ Chlorides 0, BHT 107
DST#3 3454' TO 3500' 10 60 40 120/
IF- WEAK BUILDING BLOW.BUILT TO 1"/ FSI NO RETURN, FF- WEAK STEADY SURFACE BLOW/ FSI NO RETURN,
IH- 1730, FH- 1698/ IF- 38, FF- 48/ ISI- 927#, FSI- 507#
Recovered 30' TF, 100% MUD/ Chlorides 0, BHT 112
DST#4 3568' TO 3576' 8 60 30 90/
IF- WEAK SURFACE BLOW.BUILT TO 1/2"/ FSI NO RETURN, FF- WEAK SURFACE BLOW, DIED OFF AN ON/ FSI NO RETURN,
IH- 1828, FH- 1736/ IF- 25, FF- 27/ ISI- 833#, FSI- 507#
Recovered 15' TF, 100% MUD/ Chlorides 0, BHT 115
.

ROCK TYPES



ACCESSORIES



OTHER SYMBOLS

POROSITY TYPE
- E Earthy
- Fenest
- F Fracture
- Inter
- Moldic
- Organic
- P Pinpoint
- V Vuggy

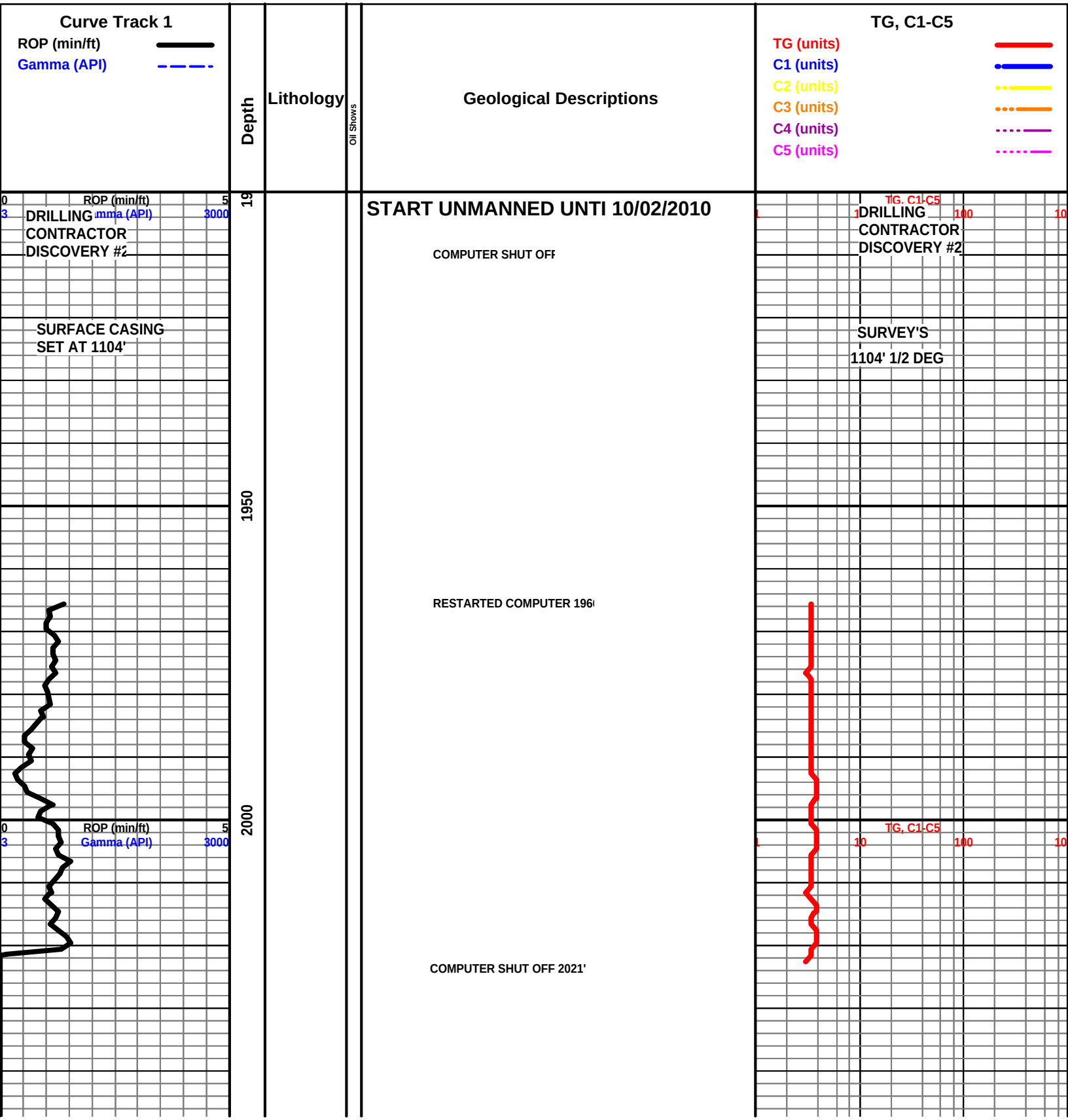
SORTING
- W Well
- M Moderate
- P Poor

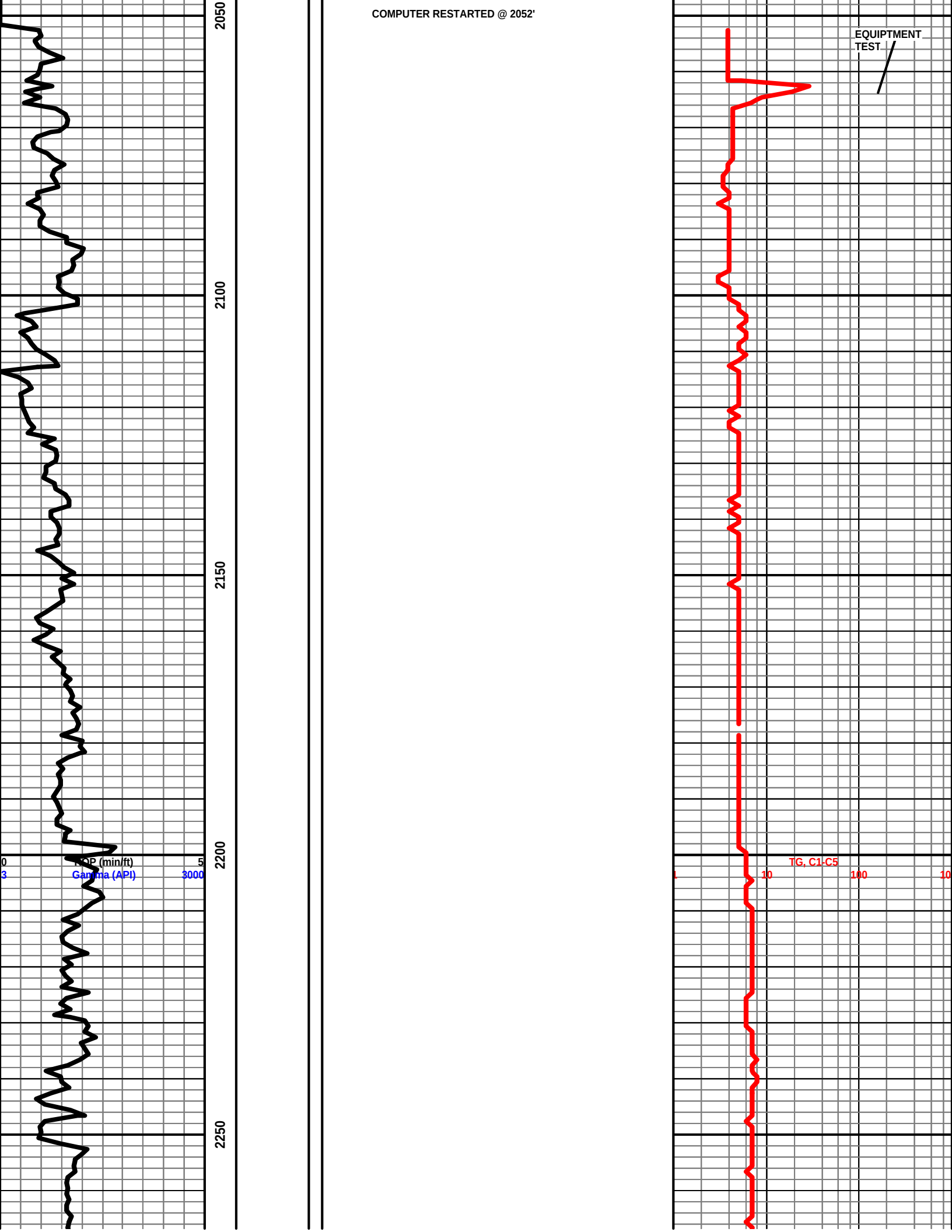
ROUNDING
- R Rounded
- r Subrnd
- a Subang
- A Angular

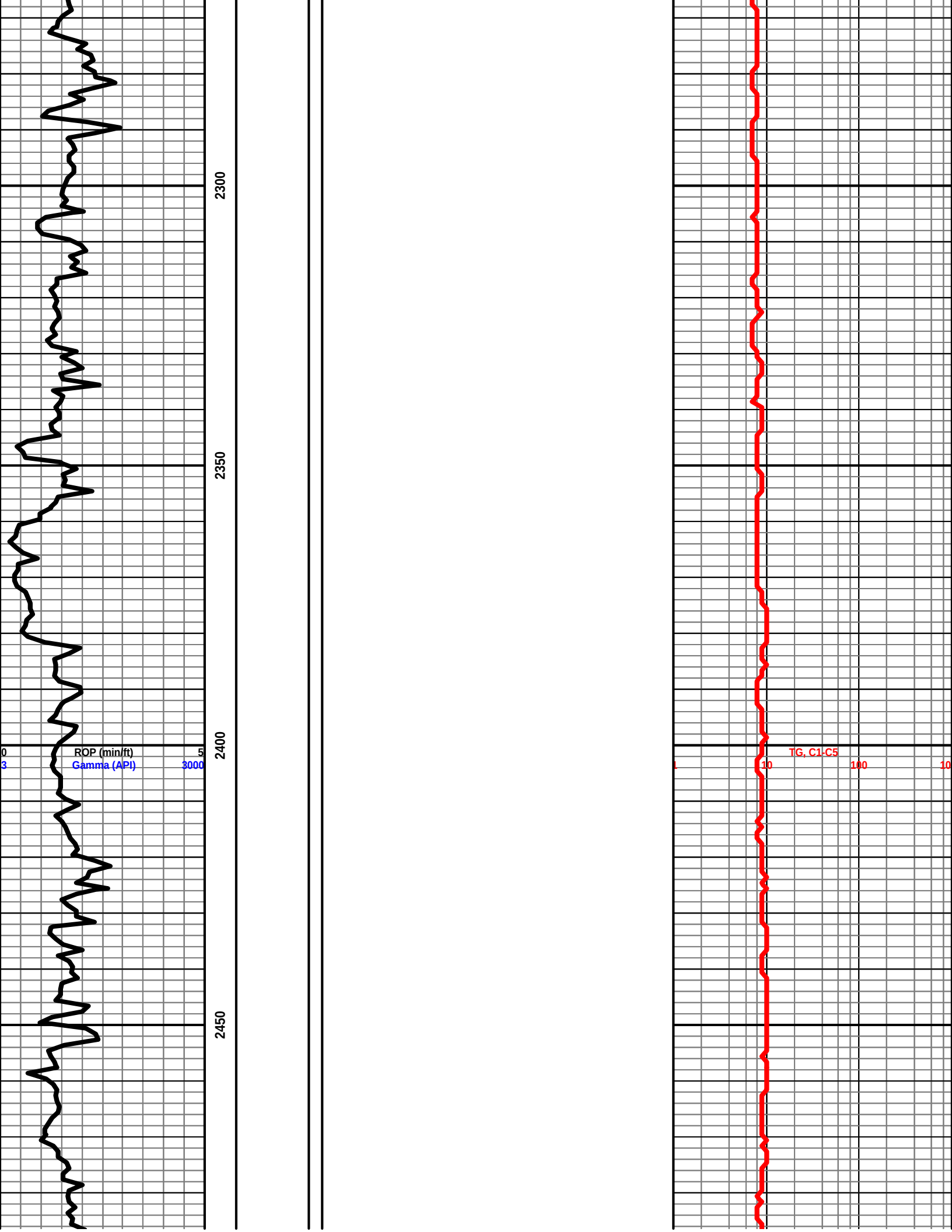
OIL SHOWS
- Even
- Spotted
- Ques
- D Dead
- Gas show

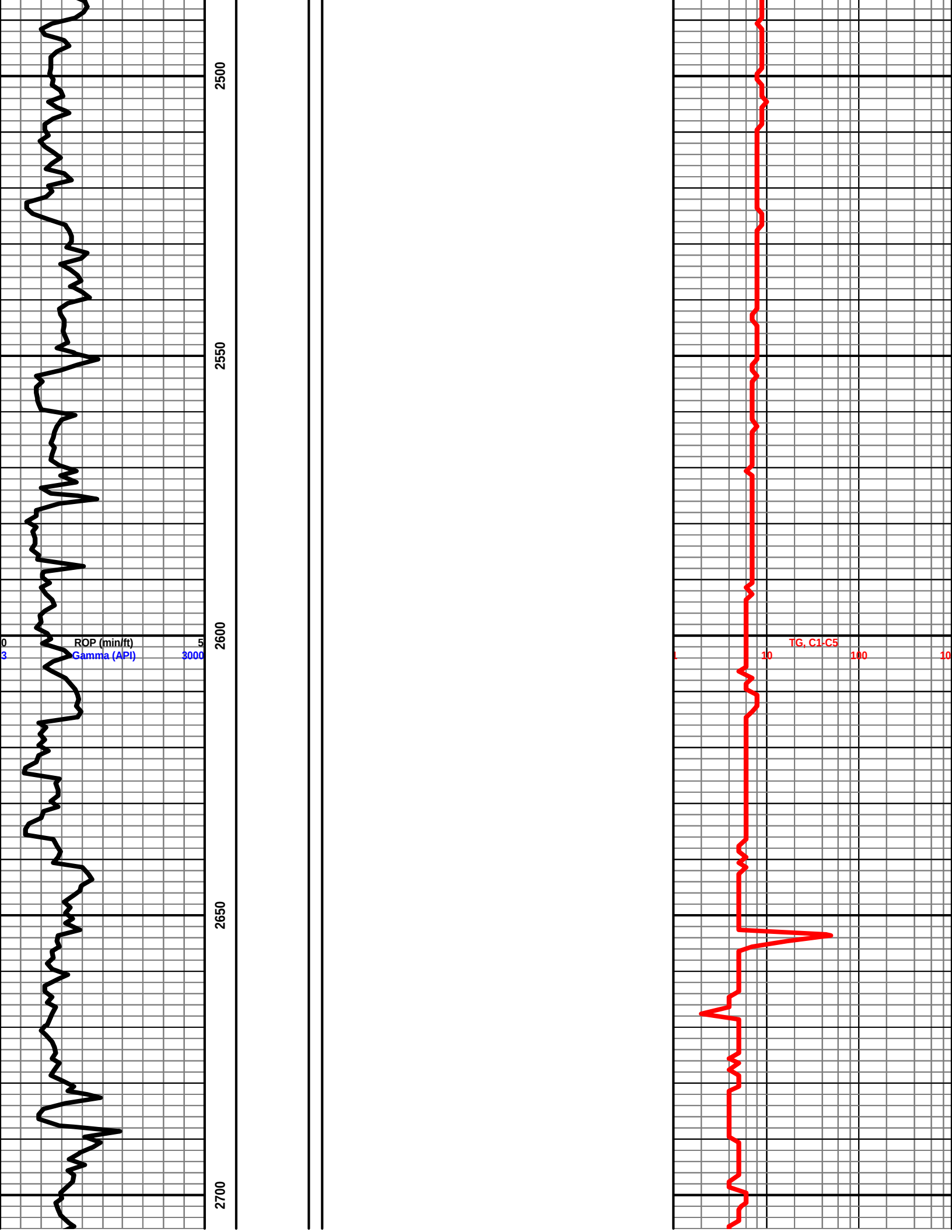
INTERVALS
- Core
- Dst
- Dst

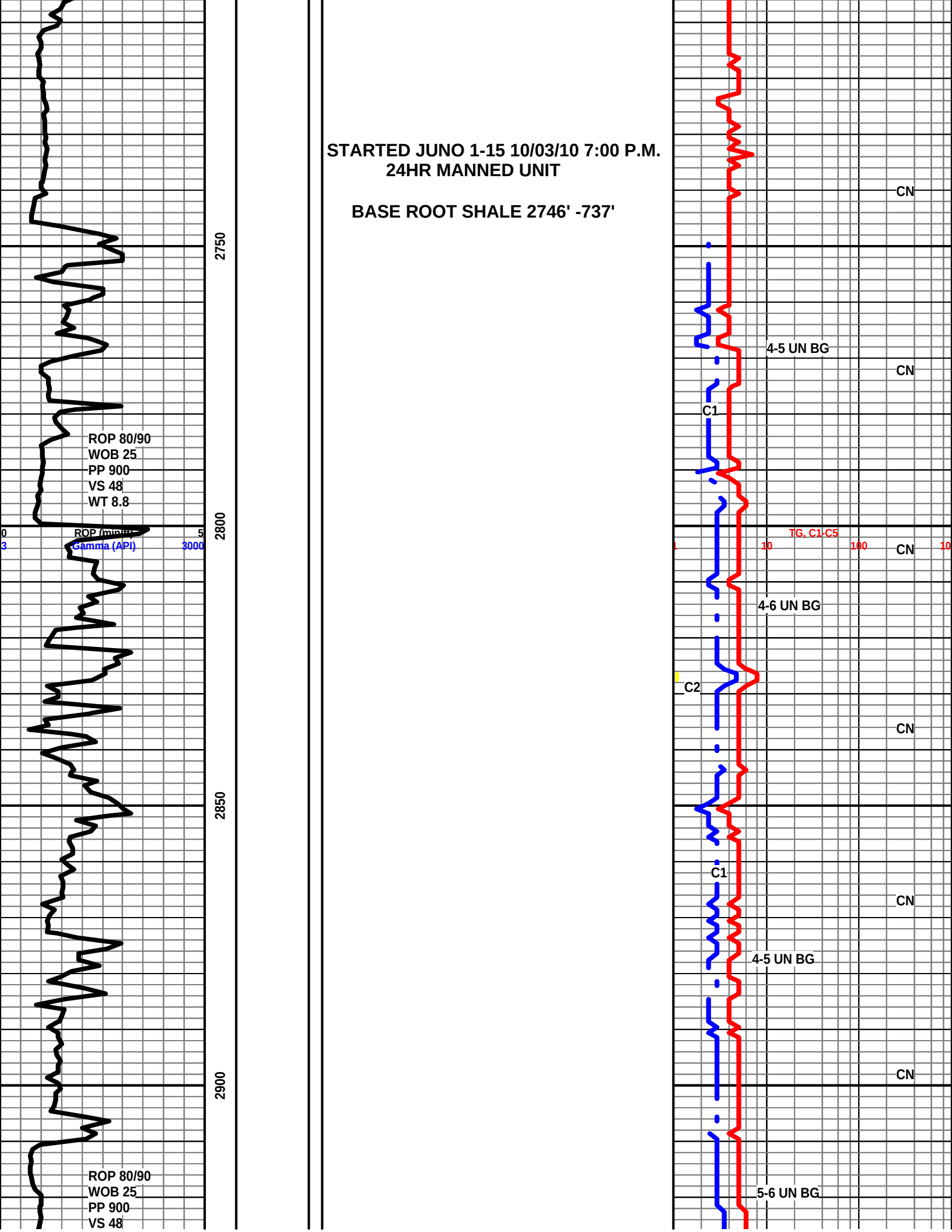
EVENTS
- Rft
- Sidewall

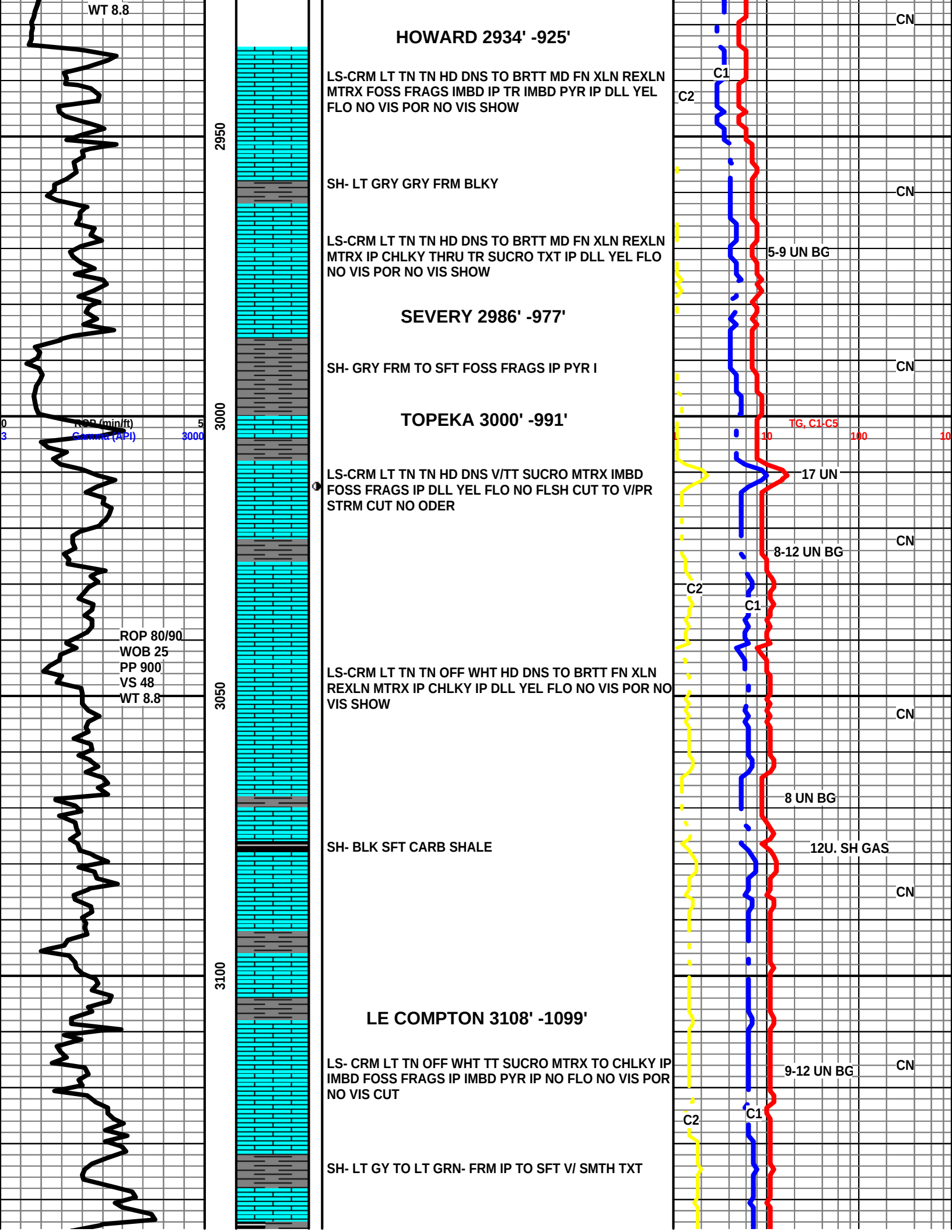


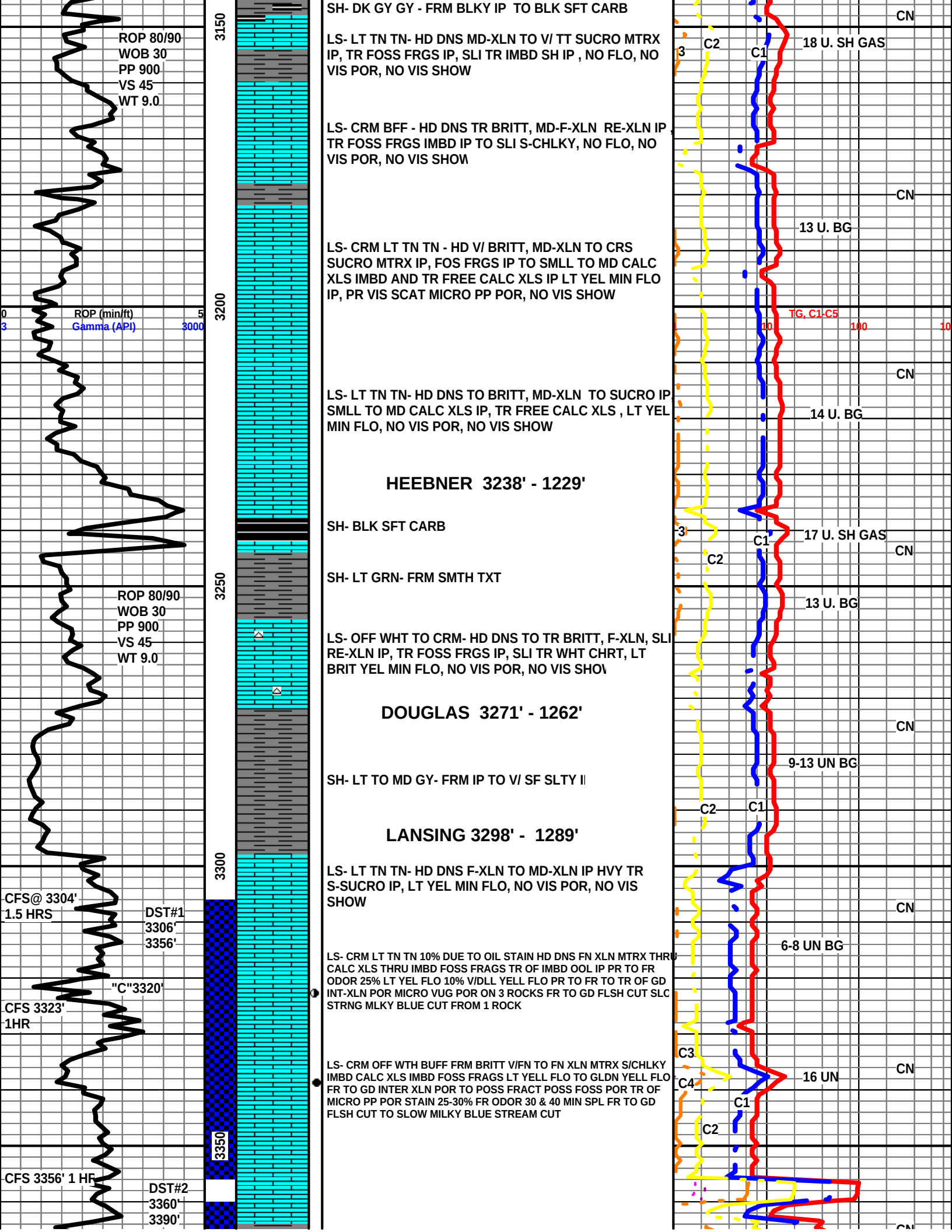

COMPUTER RESTARTED @ 2052'
EQUIPTMENT TEST
2050
2100
2150
2200
2250
0
ROP (min/ft)
5
3
Gamma (API)
3000
TG, C1-C5
1
10
100
10

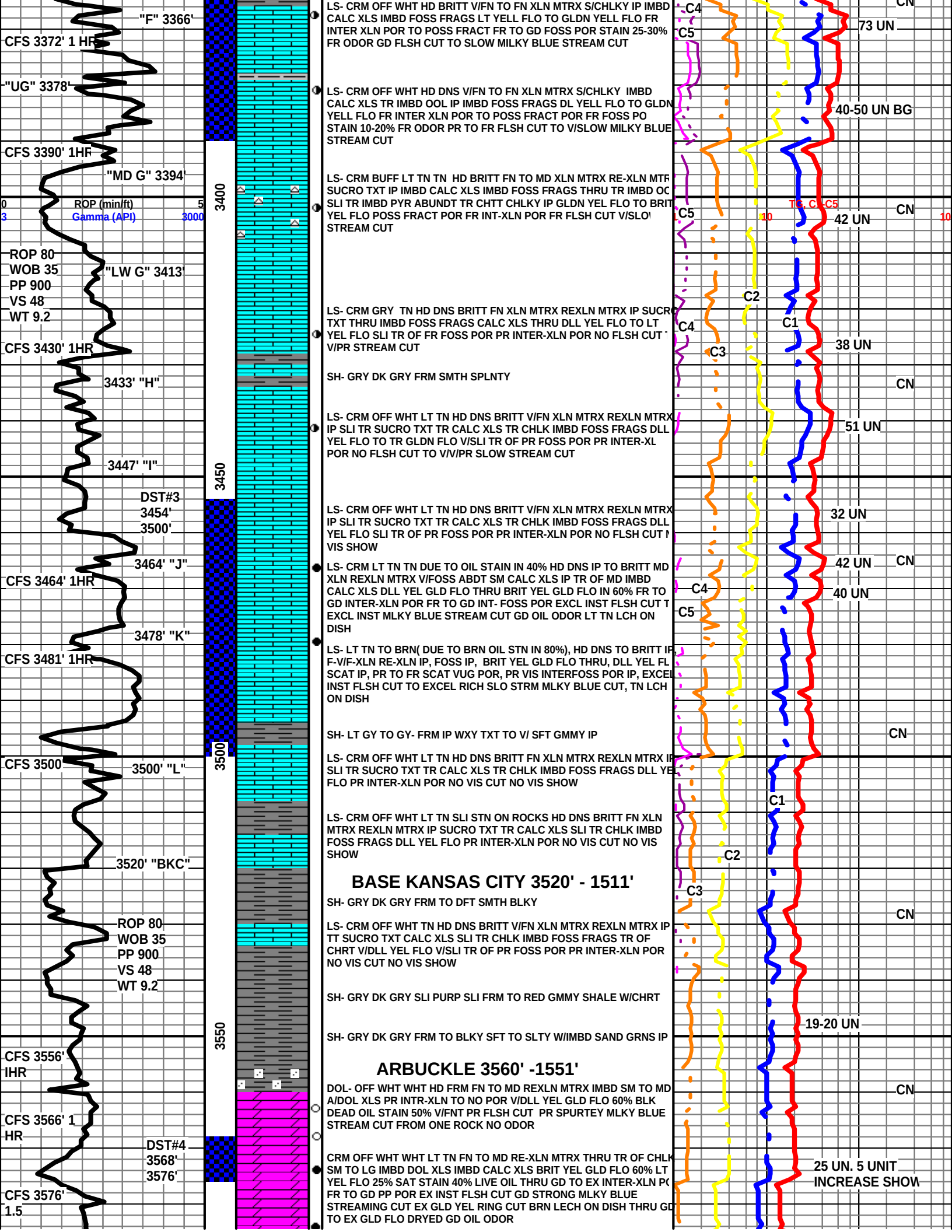

2300
2350
2400
2450
0
ROP (min/ft)
5
3
Gamma (API)
3000
TG, C1-C5
1
10
100
10

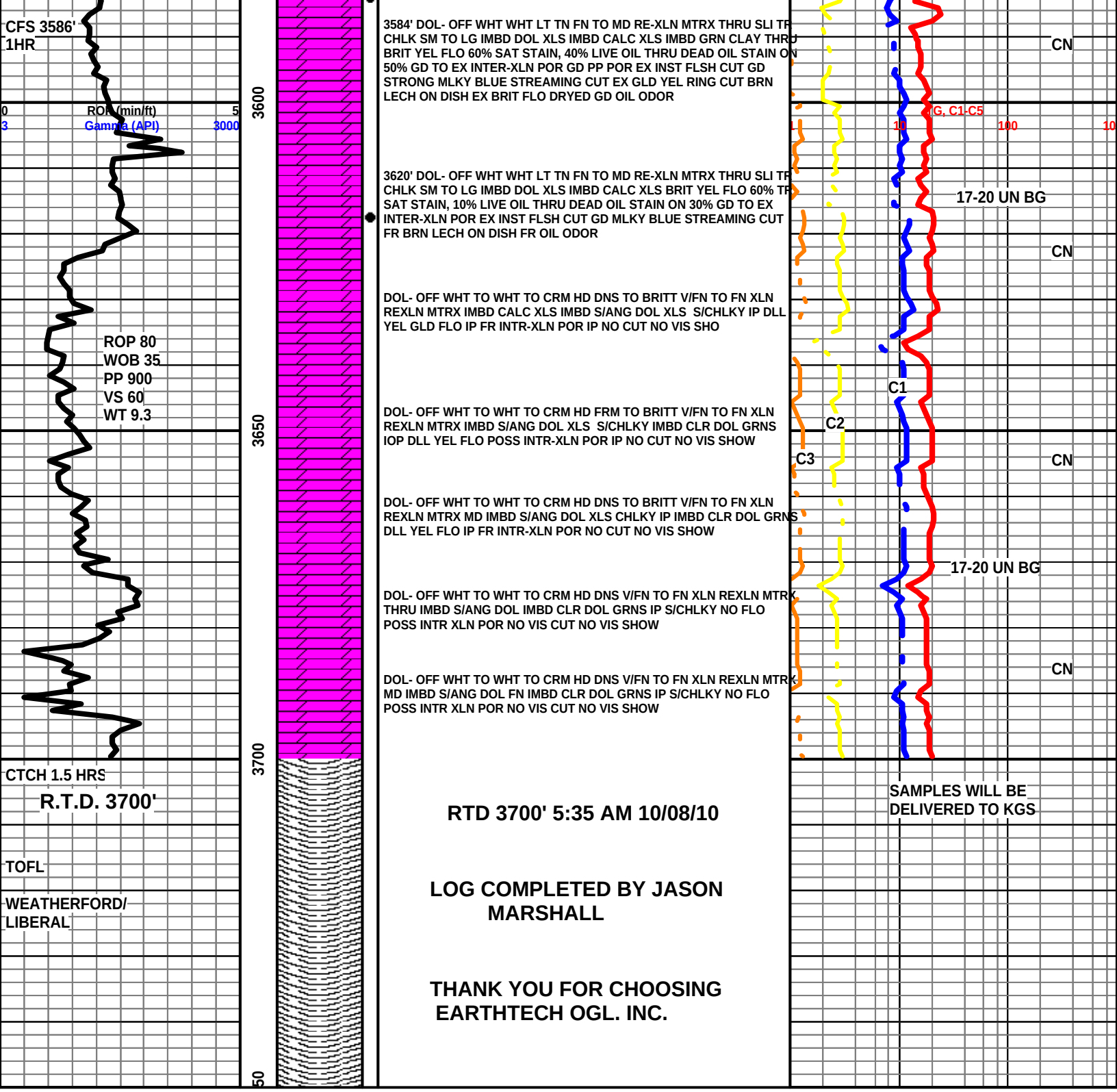

2500
2550
2600
2650
2700
0
ROP (min/ft)
5
3
Gamma (API)
3000
TG, C1-C5
1
10
100
10


STARTED JUNO 1-15 10/03/10 7:00 P.M.
24HR MANNED UNIT
BASE ROOT SHALE 2746' -737'
2750
2800
2850
2900
ROP 80/90
WOB 25
PP 900
VS 48
WT 8.8
ROP (min/ft)
0
5
Gamma (API)
3
3000
TG, C1-C5
1
10
100
1000
CN
4-5 UN BG
C1
4-6 UN BG
C2
4-5 UN BG
5-6 UN BG
ROP 80/90
WOB 25
PP 900
VS 48


WT 8.8
ROP (min/ft)
Gamma (API)
0
3
5
3000
2950
3000
3050
3100
HOWARD 2934' -925'
LS-CRM LT TN TN HD DNS TO BRTT MD FN XLN REXLN MTRX FOSS FRAGS IMBD IP TR IMBD PYR IP DLL YEL FLO NO VIS POR NO VIS SHOW
SH- LT GRY GRY FRM BLKY
LS-CRM LT TN TN HD DNS TO BRTT MD FN XLN REXLN MTRX IP CHLKY THRU TR SUCRO TXT IP DLL YEL FLO NO VIS POR NO VIS SHOW
SEVERY 2986' -977'
SH- GRY FRM TO SFT FOSS FRAGS IP PYR I
TOPEKA 3000' -991'
LS-CRM LT TN TN HD DNS V/TT SUCRO MTRX IMBD FOSS FRAGS IP DLL YEL FLO NO FLSH CUT TO V/PR STRM CUT NO ODER
ROP 80/90
WOB 25
PP 900
VS 48
WT 8.8
LS-CRM LT TN TN OFF WHT HD DNS TO BRTT FN XLN REXLN MTRX IP CHLKY IP DLL YEL FLO NO VIS POR NO VIS SHOW
SH- BLK SFT CARB SHALE
LE COMPTON 3108' -1099'
LS- CRM LT TN OFF WHT TT SUCRO MTRX TO CHLKY IP IMBD FOSS FRAGS IP IMBD PYR IP NO FLO NO VIS POR NO VIS CUT
SH- LT GY TO LT GRN- FRM IP TO SFT V/ SMTH TXT
C1
C2
CN
5-9 UN BG
TG, C1-C5
1
10
100
17 UN
8-12 UN BG
8 UN BG
12U. SH GAS
9-12 UN BG


ROP 80/90
WOB 30
PP 900
VS 45
WT 9.0
3150
3200
3250
3300
3350
0
3
ROP (min/ft)
Gamma (API)
5
3000
SH- DK GY GY - FRM BLKY IP TO BLK SFT CARB
LS- LT TN TN- HD DNS MD-XLN TO V/ TT SUCRO MTRX IP, TR FOSS FRGS IP, SLI TR IMBD SH IP , NO FLO, NO VIS POR, NO VIS SHOW
LS- CRM BFF - HD DNS TR BRITT, MD-F-XLN RE-XLN IP , TR FOSS FRGS IMBD IP TO SLI S-CHLKY, NO FLO, NO VIS POR, NO VIS SHOW
LS- CRM LT TN TN - HD V/ BRITT, MD-XLN TO CRS SUCRO MTRX IP, FOS FRGS IP TO SMLL TO MD CALC XLS IMBD AND TR FREE CALC XLS IP LT YEL MIN FLO IP, PR VIS SCAT MICRO PP POR, NO VIS SHOW
LS- LT TN TN- HD DNS TO BRITT, MD-XLN TO SUCRO IP, SMLL TO MD CALC XLS IP, TR FREE CALC XLS , LT YEL MIN FLO, NO VIS POR, NO VIS SHOW
HEEBNER 3238' - 1229'
SH- BLK SFT CARB
SH- LT GRN- FRM SMTH TXT
LS- OFF WHT TO CRM- HD DNS TO TR BRITT, F-XLN, SLI RE-XLN IP, TR FOSS FRGS IP, SLI TR WHT CHRT, LT BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW
DOUGLAS 3271' - 1262'
SH- LT TO MD GY- FRM IP TO V/ SF SLTY I
LANSING 3298' - 1289'
LS- LT TN TN- HD DNS F-XLN TO MD-XLN IP HVY TR S-SUCRO IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW
LS- CRM LT TN TN 10% DUE TO OIL STAIN HD DNS FN XLN MTRX THRU CALC XLS THRU IMBD FOSS FRAGS TR OF IMBD OOL IP PR TO FR ODOR 25% LT YEL FLO 10% V/DLL YELL FLO PR TO FR TO TR OF GD INT-XLN POR MICRO VUG POR ON 3 ROCKS FR TO GD FLSH CUT SLO STRNG MLKY BLUE CUT FROM 1 ROCK
LS- CRM OFF WTH BUFF FRM BRITT V/FN TO FN XLN MTRX S/CHLKY IMBD CALC XLS IMBD FOSS FRAGS LT YELL FLO TO GLDN YELL FLO FR TO GD INTER XLN POR TO POSS FRACT POSS FOSS POR TR OF MICRO PP POR STAIN 25-30% FR ODOR 30 & 40 MIN SPL FR TO GD FLSH CUT TO SLOW MILKY BLUE STREAM CUT
CFS@ 3304'
1.5 HRS
DST#1
3306'
3356'
"C"3320'
CFS 3323'
1HR
CFS 3356' 1 HR
DST#2
3360'
3390'
C1
C2
C3
C4
3
18 U. SH GAS
13 U. BG
TG, C1-C5
10
100
14 U. BG
17 U. SH GAS
13 U. BG
9-13 UN BG
6-8 UN BG
16 UN
CN


"F" 3366'
CFS 3372' 1 HR
"UG" 3378'
CFS 3390' 1HR
"MD G" 3394'
0 ROP (min/ft) 5
3 Gamma (API) 3000
3400
ROP 80
WOB 35
PP 900
VS 48
WT 9.2
"LW G" 3413'
CFS 3430' 1HR
3433' "H"
3447' "I"
3450
DST#3
3454'
3500'
3464' "J"
CFS 3464' 1HR
3478' "K"
CFS 3481' 1HR
3500
CFS 3500
3500' "L"
3520' "BKC"
ROP 80
WOB 35
PP 900
VS 48
WT 9.2
3550
CFS 3556'
IHR
CFS 3566' 1
HR
DST#4
3568'
3576'
CFS 3576'
1.5
LS- CRM OFF WHT HD BRITT V/FN TO FN XLN MTRX S/CHLKY IP IMBD CALC XLS IMBD FOSS FRAGS LT YELL FLO TO GLDN YELL FLO FR INTER XLN POR TO POSS FRACT FR TO GD FOSS POR STAIN 25-30% FR ODOR GD FLSH CUT TO SLOW MILKY BLUE STREAM CUT
LS- CRM OFF WHT HD DNS V/FN TO FN XLN MTRX S/CHLKY IMBD CALC XLS TR IMBD OOL IP IMBD FOSS FRAGS DL YELL FLO TO GLDN YELL FLO FR INTER XLN POR TO POSS FRACT POR FR FOSS PO STAIN 10-20% FR ODOR PR TO FR FLSH CUT TO V/SLOW MILKY BLUE STREAM CUT
LS- CRM BUFF LT TN TN HD BRITT FN TO MD XLN MTRX RE-XLN MTR SUCRO TXT IP IMBD CALC XLS IMBD FOSS FRAGS THRU TR IMBD OC SLI TR IMBD PYR ABUNDT TR CHTT CHLKY IP GLDN YEL FLO TO BRIT YEL FLO POSS FRACT POR FR INT-XLN POR FR FLSH CUT V/SLO STREAM CUT
LS- CRM GRY TN HD DNS BRITT FN XLN MTRX REXLN MTRX IP SUCRO TXT THRU IMBD FOSS FRAGS CALC XLS THRU DLL YEL FLO TO LT YEL FLO SLI TR OF FR FOSS POR PR INTER-XLN POR NO FLSH CUT V/PR STREAM CUT
SH- GRY DK GRY FRM SMTH SPLNTY
LS- CRM OFF WHT LT TN HD DNS BRITT V/FN XLN MTRX REXLN MTRX IP SLI TR SUCRO TXT TR CALC XLS TR CHLK IMBD FOSS FRAGS DLL YEL FLO TO TR GLDN FLO V/SLI TR OF PR FOSS POR PR INTER-XL POR NO FLSH CUT TO V/V/PR SLOW STREAM CUT
LS- CRM OFF WHT LT TN HD DNS BRITT V/FN XLN MTRX REXLN MTRX IP SLI TR SUCRO TXT TR CALC XLS TR CHLK IMBD FOSS FRAGS DLL YEL FLO SLI TR OF PR FOSS POR PR INTER-XLN POR NO FLSH CUT N VIS SHOW
LS- CRM LT TN TN DUE TO OIL STAIN IN 40% HD DNS IP TO BRITT MD XLN REXLN MTRX V/FOSS ABDT SM CALC XLS IP TR OF MD IMBD CALC XLS DLL YEL GLD FLO THRU BRIT YEL GLD FLO IN 60% FR TO GD INTER-XLN POR FR TO GD INT- FOSS POR EXCL INST FLSH CUT T EXCL INST MLKY BLUE STREAM CUT GD OIL ODOR LT TN LCH ON DISH
LS- LT TN TO BRN(DUE TO BRN OIL STN IN 80%), HD DNS TO BRITT IP, F-V/F-XLN RE-XLN IP, FOSS IP, BRIT YEL GLD FLO THRU, DLL YEL FL SCAT IP, PR TO FR SCAT VUG POR, PR VIS INTERFOSS POR IP, EXCEL INST FLSH CUT TO EXCEL RICH SLO STRM MLKY BLUE CUT, TN LCH ON DISH
SH- LT GY TO GY- FRM IP WXY TXT TO V/ SFT GMMY IP
LS- CRM OFF WHT LT TN HD DNS BRITT FN XLN MTRX REXLN MTRX IP SLI TR SUCRO TXT TR CALC XLS TR CHLK IMBD FOSS FRAGS DLL YEL FLO PR INTER-XLN POR NO VIS CUT NO VIS SHOW
LS- CRM OFF WHT LT TN SLI STN ON ROCKS HD DNS BRITT FN XLN MTRX REXLN MTRX IP SUCRO TXT TR CALC XLS SLI TR CHLK IMBD FOSS FRAGS DLL YEL FLO PR INTER-XLN POR NO VIS CUT NO VIS SHOW
BASE KANSAS CITY 3520' - 1511'
SH- GRY DK GRY FRM TO DFT SMTH BLKY
LS- CRM OFF WHT TN HD DNS BRITT V/FN XLN MTRX REXLN MTRX IP TT SUCRO TXT CALC XLS SLI TR CHLK IMBD FOSS FRAGS TR OF CHRT V/DLL YEL FLO V/SLI TR OF PR FOSS POR PR INTER-XLN POR NO VIS CUT NO VIS SHOW
SH- GRY DK GRY SLI PURP SLI FRM TO RED GMMY SHALE W/CHRT
SH- GRY DK GRY FRM TO BLKY SFT TO SLTY W/IMBD SAND GRNS IP
ARBUCKLE 3560' -1551'
DOL- OFF WHT WHT HD FRM FN TO MD REXLN MTRX IMBD SM TO MD A/DOL XLS PR INTR-XLN TO NO POR V/DLL YEL GLD FLO 60% BLK DEAD OIL STAIN 50% V/FNT PR FLSH CUT PR SPURTEY MLKY BLUE STREAM CUT FROM ONE ROCK NO ODOR
CRM OFF WHT WHT LT TN FN TO MD RE-XLN MTRX THRU TR OF CHLK SM TO LG IMBD DOL XLS IMBD CALC XLS BRIT YEL GLD FLO 60% LT YEL FLO 25% SAT STAIN 40% LIVE OIL THRU GD TO EX INTER-XLN PO FR TO GD PP POR EX INST FLSH CUT GD STRONG MLKY BLUE STREAMING CUT EX GLD YEL RING CUT BRN LECH ON DISH THRU GD TO EX GLD FLO DRYED GD OIL ODOR
C4
C5
73 UN
CN
40-50 UN BG
TG, C4, C5
10
42 UN
C2
C1
C3
38 UN
51 UN
32 UN
40 UN
19-20 UN
25 UN. 5 UNIT INCREASE SHOW


CFS 3586'
1HR
0
ROP (min/ft)
5
3
Gamma (API)
3000
3600
3650
3700
50
ROP 80
WOB 35
PP 900
VS 60
WT 9.3
CTCH 1.5 HRS
R.T.D. 3700'
TOFL
WEATHERFORD/
LIBERAL
3584' DOL- OFF WHT WHT LT TN FN TO MD RE-XLN MTRX THRU SLI TR CHLK SM TO LG IMBD DOL XLS IMBD CALC XLS IMBD GRN CLAY THRU BRIT YEL FLO 60% SAT STAIN, 40% LIVE OIL THRU DEAD OIL STAIN ON 50% GD TO EX INTER-XLN POR GD PP POR EX INST FLSH CUT GD STRONG MLKY BLUE STREAMING CUT EX GLD YEL RING CUT BRN LECH ON DISH EX BRIT FLO DRYED GD OIL ODOR
3620' DOL- OFF WHT WHT LT TN FN TO MD RE-XLN MTRX THRU SLI TR CHLK SM TO LG IMBD DOL XLS IMBD CALC XLS BRIT YEL FLO 60% TR SAT STAIN, 10% LIVE OIL THRU DEAD OIL STAIN ON 30% GD TO EX INTER-XLN POR EX INST FLSH CUT GD MLKY BLUE STREAMING CUT FR BRN LECH ON DISH FR OIL ODOR
DOL- OFF WHT TO WHT TO CRM HD DNS TO BRITT V/FN TO FN XLN REXLN MTRX IMBD CALC XLS IMBD S/ANG DOL XLS S/CHLKY IP DLL YEL GLD FLO IP FR INTR-XLN POR IP NO CUT NO VIS SHO
DOL- OFF WHT TO WHT TO CRM HD FRM TO BRITT V/FN TO FN XLN REXLN MTRX IMBD S/ANG DOL XLS S/CHLKY IMBD CLR DOL GRNS IOP DLL YEL FLO POSS INTR-XLN POR IP NO CUT NO VIS SHOW
DOL- OFF WHT TO WHT TO CRM HD DNS TO BRITT V/FN TO FN XLN REXLN MTRX MD IMBD S/ANG DOL XLS CHLKY IP IMBD CLR DOL GRNS DLL YEL FLO IP FR INTR-XLN POR NO CUT NO VIS SHOW
DOL- OFF WHT TO WHT TO CRM HD DNS V/FN TO FN XLN REXLN MTRX THRU IMBD S/ANG DOL IMBD CLR DOL GRNS IP S/CHLKY NO FLO POSS INTR XLN POR NO VIS CUT NO VIS SHOW
DOL- OFF WHT TO WHT TO CRM HD DNS V/FN TO FN XLN REXLN MTRX MD IMBD S/ANG DOL FN IMBD CLR DOL GRNS IP S/CHLKY NO FLO POSS INTR XLN POR NO VIS CUT NO VIS SHOW
RTD 3700' 5:35 AM 10/08/10
LOG COMPLETED BY JASON MARSHALL
THANK YOU FOR CHOOSING EARTHTECH OGL. INC.
CN
C1, C1-C5
1
10
100
10
17-20 UN BG
CN
C1
C2
C3
CN
17-20 UN BG
CN
SAMPLES WILL BE DELIVERED TO KGS