Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1263596

Form ACO-1
November 2016
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: GABE D'ARTHENAY
Phone: (303) 831-4673
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: JEFF KAMPS
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

5/18/2015 Spud Date or Recompletion Date
6/2/2015 Date Reached TD
6/3/2015 Completion Date or Recompletion Date

API No.: 15-109-21409-00-00
Spot Description:
SW-NW-NE-SE Sec. 20 Twp. 15 S. R. 35 ☐ East ☑ West
2200 Feet from ☐ North / ☑ South Line of Section
1050 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Logan
Lease Name: CROUCH Well #: 1-20
Field Name:
Producing Formation: N/A
Elevation: Ground: 3235 Kelly Bushing: 3243
Total Vertical Depth: 4820 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 220 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: 65000 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated

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: 09/08/2015
☑ Confidential Release Date: 09/07/2017
☑ Wireline Log Received ☐ Drill Stem Tests Received
☑ Geologist Report / Mud Logs Received
☐ UIC Distribution
ALT ☐ I ☑ II ☐ III Approved by: NAOM Date: 09/14/2

[redacted]

1263596

Operator Name: Samuel Gary Jr. & Associates, I Lease Name: CROUCH Well #: 1-20

Sec. 20 Twp. 15 S. R. 35 ☐ East ☑ West County: Logan

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geolgist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:
Attached

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

Name	Top	Datum
TOPEKA	3740	-497
HEEBNER	3973	-730
LANSING	4023	-780
MISSISSIPPIAN	4764	-1521

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	220	COMMON	150	% GEL, 3% (

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
	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top / Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	CROUCH 1-20
Doc ID	1263596

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	CROUCH 1-20
Doc ID	1263596

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	220	COMMON CLASS A	150	% GEL, 3% CC

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No. 1001**

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-18-15	20	15	35	Logan	KS		7:30 PM

Location Russell Springs E to 270 Rd 11½S 3W ½S

Lease Crouch Well No. #1 Owner

Contractor Discovery #4

Type Job Surface

Hole Size 12¼ T.D. 220'

Csg. 8 5/8 Depth 220'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 20' Shoe Joint

Meas Line Displace 13 bbl

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.

Charge To Sam Gary Jr & Associates

Street

City State

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

Cement Amount Ordered 150 com 3% cc 2% Gel

EQUIPMENT

Pumptrk 20	No.	Cementer Helper	David
Bulktrk 14	No.	Driver Driver	Billy
Bulktrk Pu	No.	Driver Driver	Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement Circulated!!

Common	150
Poz. Mix	
Gel.	3
Calcium	5
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	158
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	35
Tax	
Discount	
Total Charge	

X Signature

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No.** 1454

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-3-15	20	15	35	Logan	KS		5:15PM

Location Russell Springs E 270Rd 11 1/2S 3W 1/2S

Lease Crouch Well No. 1-20

Contractor Discovery #4

Type Job Rotary Plug

Hole Size 7 7/8 T.D. 4820

Csg. Depth

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint

Meas Line Displace

EQUIPMENT

Pumptrk 20 No. Cementer Craig

Helper

Bulktrk No. Driver Nick

Driver

Bulktrk 15 No. Driver

Driver Billy

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30SK

Mouse Hole 15SK

Centralizers

Baskets

D/V or Port Collar

1st 2540 50SK

2nd 1387 100SK

3rd 270 50SK

4th 40 10SK

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.

Charge To Sam Coats J. & Associates

Street

City State

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

Cement Amount Ordered 255 60/40 4% 6% 1/4# FL40

Common 153

Poz. Mix 102

Gel. 9

Calcium

Hulls

Salt

Flowseal 56#

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 264

Mileage

FLOAT EQUIPMENT

Guide Shoe

~~Centralizer~~ 8 5/8 Dry Hole Plug

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge plug

Mileage 35

Tax

Discount

Total Charge

X Signature

DRILL STEM TEST REPORT

Samuel Gary Jr &Associaes.Inc

1515 WYNKOOP, STE 700
Denver Co, 80202

ATTN: Clayton Camozzi

20=15s=35w County Logan

Crouch 1-20

Job Ticket: 58663 **DST#: 1**

Test Start: 2015.06.01 @ 00:44:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 03:32:30
Time Test Ended: 07:57:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Justin Harris
Unit No: 71

Interval: 4408.00 ft (KB) To 4458.00 ft (KB) (TVD)
Total Depth: 4458.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

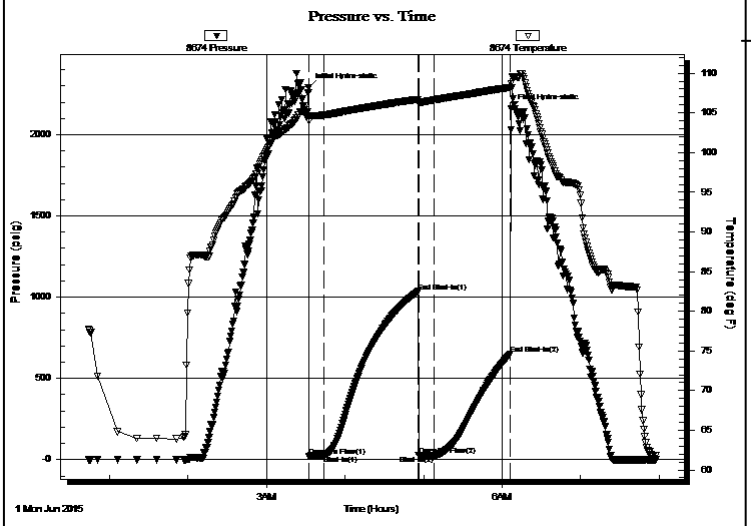
Reference Elevations: 3243.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8674 **Inside**

Press@RunDepth: 25.05 psig @ 4409.00 ft (KB)
Start Date: 2015.06.01 End Date: 2015.06.01
Start Time: 00:44:05 End Time: 07:57:14

Capacity: 8000.00 psig
Last Calib.: 2015.06.01
Time On Btm: 2015.06.01 @ 03:32:00
Time Off Btm: 2015.06.01 @ 06:06:45

TEST COMMENT: 10: Weak surface blow .
75: No Return.
10: No Blow .
60: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2288.07	105.16	Initial Hydro-static
1	22.62	104.05	Open To Flow (1)
12	24.21	104.74	Shut-In(1)
84	1034.59	106.72	End Shut-In(1)
85	25.74	106.20	Open To Flow (2)
97	25.05	106.64	Shut-In(2)
155	650.05	108.20	End Shut-In(2)
155	2161.81	108.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud oil spots	0.02

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr &Associaes.Inc

1515 WYNKOOP, STE 700
Denver Co, 80202

ATTN: Clayton Camozzi

20=15s=35w County Logan

Crouch 1-20

Job Ticket: 58663 **DST#: 1**

Test Start: 2015.06.01 @ 00:44:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 03:32:30
Time Test Ended: 07:57:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Justin Harris
Unit No: 71

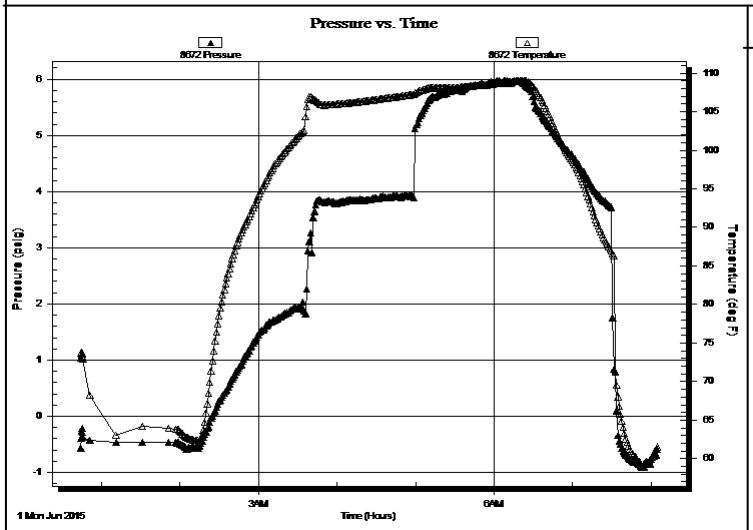
Interval: 4408.00 ft (KB) To 4458.00 ft (KB) (TVD)
Total Depth: 4458.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 3243.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8672 **Fluid**
Press@RunDepth: psig @ 4376.00 ft (KB)
Start Date: 2015.06.01 End Date: 2015.06.01
Start Time: 00:44:05 End Time: 08:04:44

Capacity: 8000.00 psig
Last Calib.: 2015.06.01
Time On Btm:
Time Off Btm:

TEST COMMENT: 10: Weak surface blow .
75: No Return.
10: No Blow .
60: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud oil spots	0.02

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr &Associaes.Inc

1515 WYNKOOP, STE 700
Denver Co, 80202

ATTN: Clayton Camozzi

20=15s=35w County Logan

Crouch 1-20

Job Ticket: 58663 **DST#: 1**

Test Start: 2015.06.01 @ 00:44:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

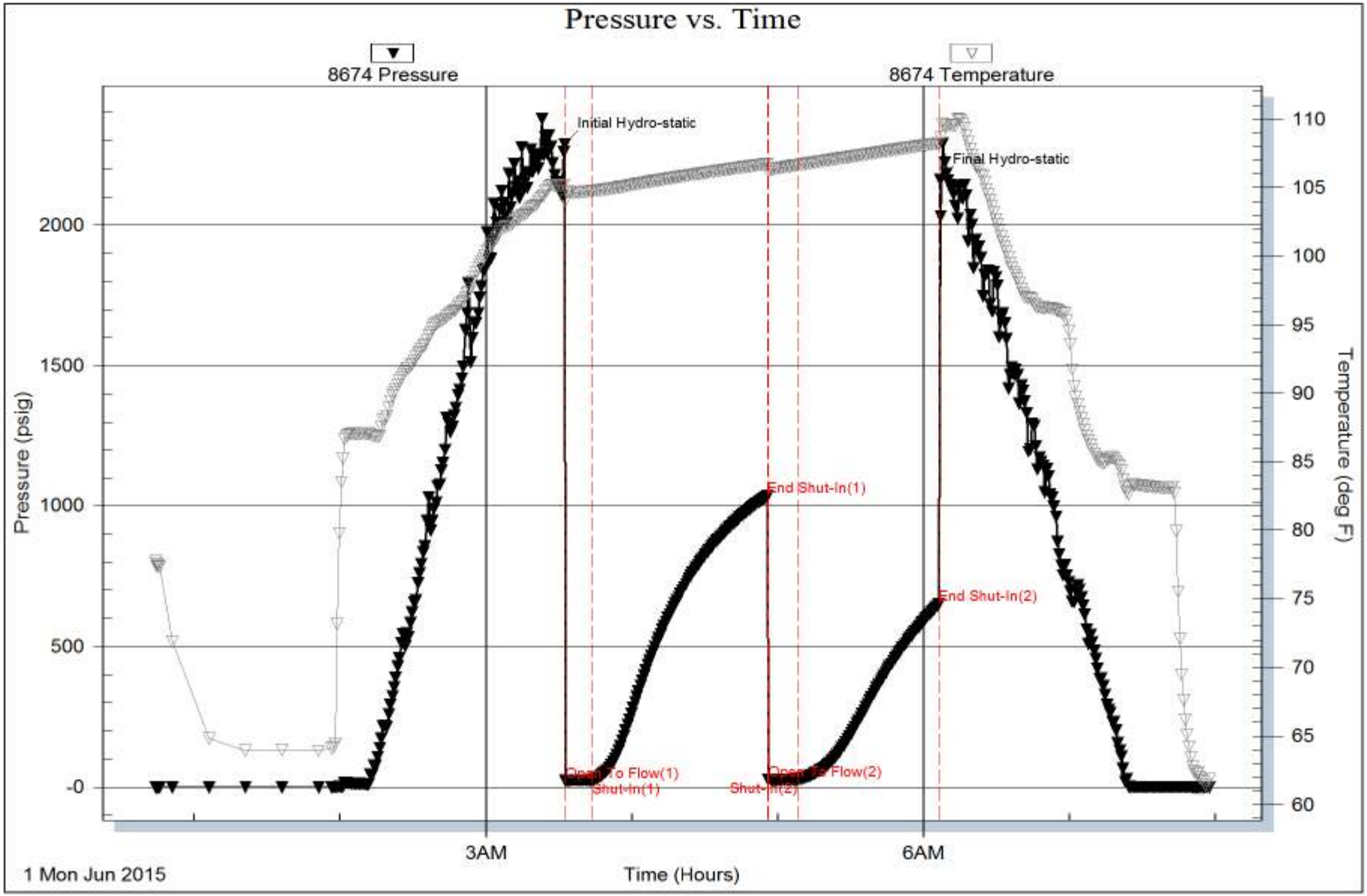
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud oil spots	0.025

Total Length: 5.00 ft Total Volume: bbl

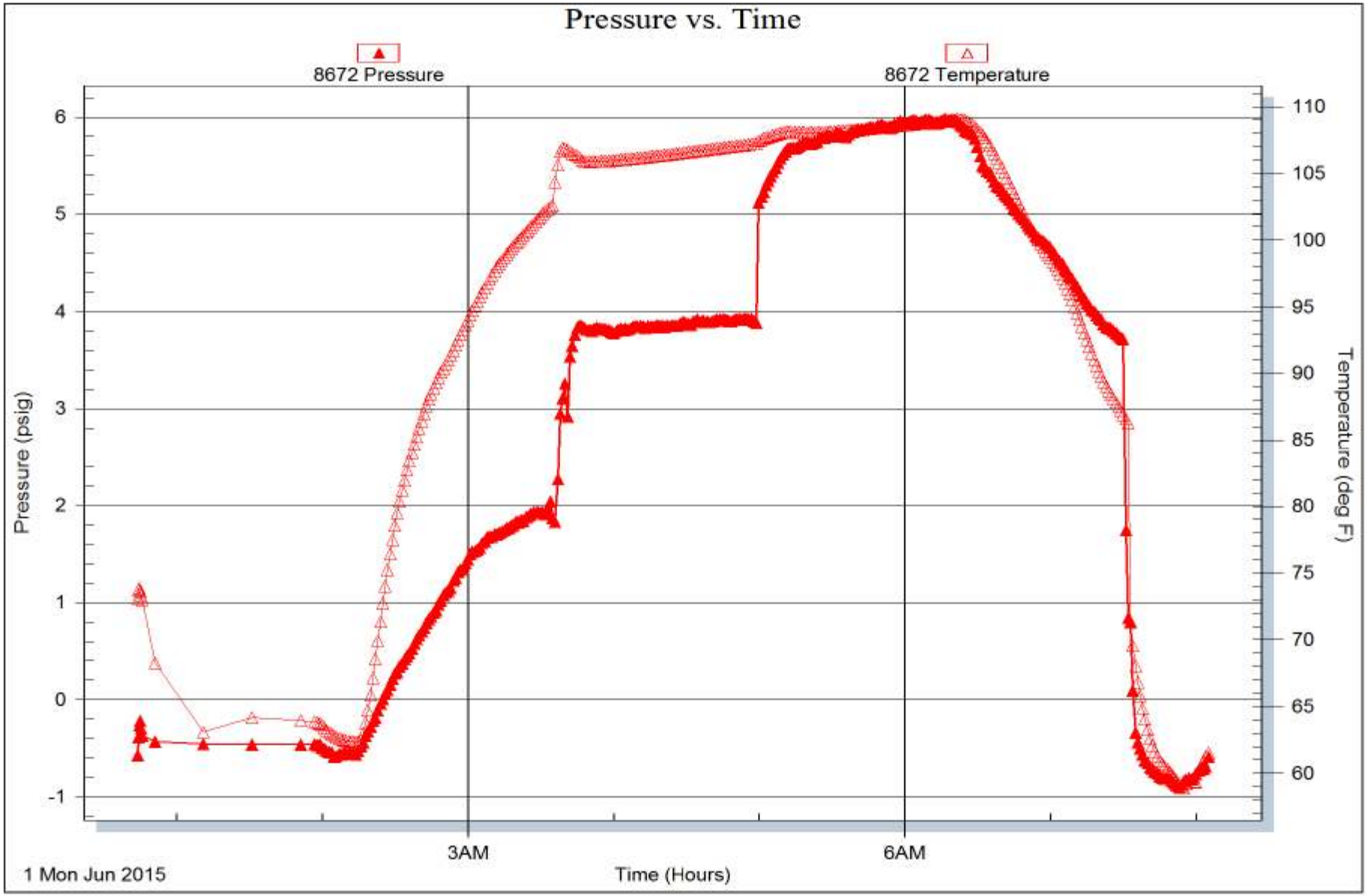
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Inside** Samuel Gary Jr &Associaes.Inc Crouch 1-20 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 58663 Printed: 2015.06.01 @ 08:36:44

Serial #: 8672 **Fluid** Samuel Gary Jr &Associaes.Inc Crouch 1-20 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 58663 Printed: 2015.06.01 @ 08:36:44

DRILL STEM TEST REPORT

Samuel Gary Jr & Associaes.Inc

1515 WYNKOOP, STE 700
Denver CO 80202

ATTN: Clayton Camozzi

20=15s=35w Logan,KS

Crouch 1-20

Job Ticket: 58664 **DST#: 2**

Test Start: 2015.06.03 @ 01:55:00

GENERAL INFORMATION:

Formation: **"J"**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 03:30:00
Time Test Ended: 09:28:30

Test Type: Conventional Straddle (Reset)
Tester: Justin Harris
Unit No: 71

Interval: 4237.00 ft (KB) To 4274.00 ft (KB) (TVD)
Total Depth: 4820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

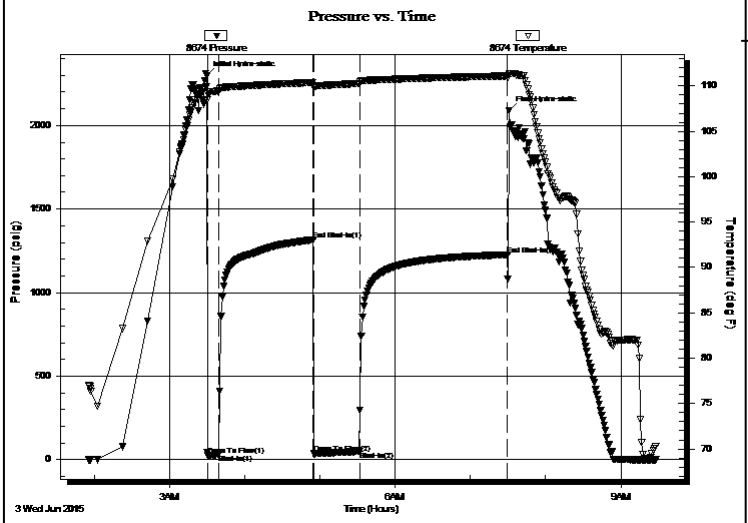
Reference Elevations: 3243.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8674 **Inside**

Press@RunDepth: 49.32 psig @ 4238.00 ft (KB)
Start Date: 2015.06.03 End Date: 2015.06.03
Start Time: 01:55:05 End Time: 09:28:29

Capacity: 8000.00 psig
Last Calib.: 2015.06.03
Time On Btm: 2015.06.03 @ 03:29:15
Time Off Btm: 2015.06.03 @ 07:30:45

TEST COMMENT: 10: Weak surface blow build to 1".
75: No Return.
35: Weak surface blow build to 1/2".
120: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2296.64	109.90	Initial Hydro-static
1	24.03	109.15	Open To Flow (1)
10	31.93	109.43	Shut-In(1)
85	1316.39	110.38	End Shut-In(1)
86	35.91	109.97	Open To Flow (2)
122	49.32	110.26	Shut-In(2)
241	1226.81	111.11	End Shut-In(2)
242	2087.99	111.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	MCW 40M 60W	0.15
37.00	MCW 40M 60W	0.51

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr & Associaes.Inc

1515 WYNKOOP, STE 700
Denver CO 80202

ATTN: Clayton Camozzi

20=15s=35w Logan,KS

Crouch 1-20

Job Ticket: 58664 **DST#: 2**

Test Start: 2015.06.03 @ 01:55:00

GENERAL INFORMATION:

Formation: **"J"**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 03:30:00
Time Test Ended: 09:28:30

Test Type: Conventional Straddle (Reset)
Tester: Justin Harris
Unit No: 71

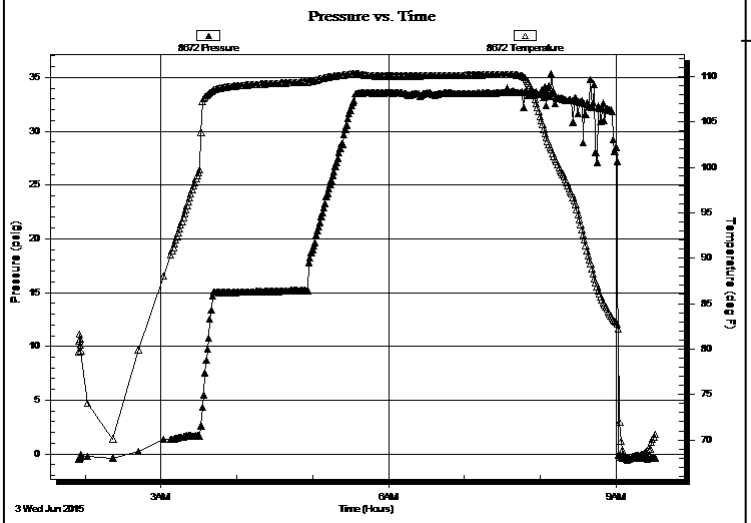
Interval: 4237.00 ft (KB) To 4274.00 ft (KB) (TVD)
Total Depth: 4820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3243.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8672 **Fluid**
Press@RunDepth: psig @ 4209.00 ft (KB)
Start Date: 2015.06.03 End Date: 2015.06.03
Start Time: 01:55:05 End Time: 09:31:29

Capacity: 8000.00 psig
Last Calib.: 2015.06.03
Time On Btm:
Time Off Btm:

TEST COMMENT: 10: Weak surface blow build to 1".
75: No Return.
35: Weak surface blow build to 1/2".
120: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
31.00	MCW 40M 60W	0.15
37.00	MCW 40M 60W	0.51

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr & Associaes.Inc

1515 WYNKOOP, STE 700
Denver CO 80202

ATTN: Clayton Camozzi

20=15s=35w Logan,KS

Crouch 1-20

Job Ticket: 58664 **DST#: 2**

Test Start: 2015.06.03 @ 01:55:00

GENERAL INFORMATION:

Formation: **"J"**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 03:30:00
Time Test Ended: 09:28:30

Test Type: Conventional Straddle (Reset)
Tester: Justin Harris
Unit No: 71

Interval: 4237.00 ft (KB) To 4274.00 ft (KB) (TVD)
Total Depth: 4820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

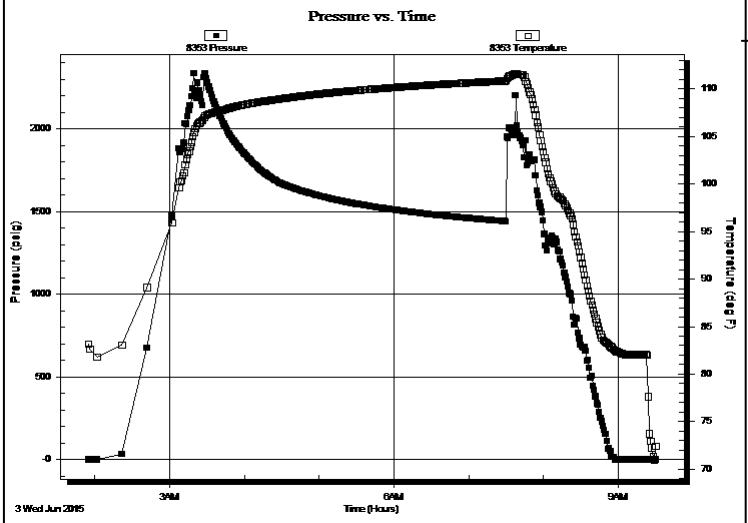
Reference Elevations: 3243.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8353 **Below (Straddle)**

Press@RunDepth: psig @ 4275.00 ft (KB)
Start Date: 2015.06.03 End Date: 2015.06.03
Start Time: 01:55:15 End Time: 09:29:45

Capacity: 8000.00 psig
Last Calib.: 2015.06.03
Time On Btm:
Time Off Btm:

TEST COMMENT: 10: Weak surface blow build to 1".
75: No Return.
35: Weak surface blow build to 1/2".
120: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
31.00	MCW 40M 60W	0.15
37.00	MCW 40M 60W	0.51

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associaes.Inc

1515 WYNKOOP, STE 700
Denver CO 80202

ATTN: Clayton Camozzi

20=15s=35w Logan,KS

Crouch 1-20

Job Ticket: 58664 **DST#: 2**

Test Start: 2015.06.03 @ 01:55:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	23000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 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
31.00	MCW 40M 60W	0.152
37.00	MCW 40M 60W	0.514

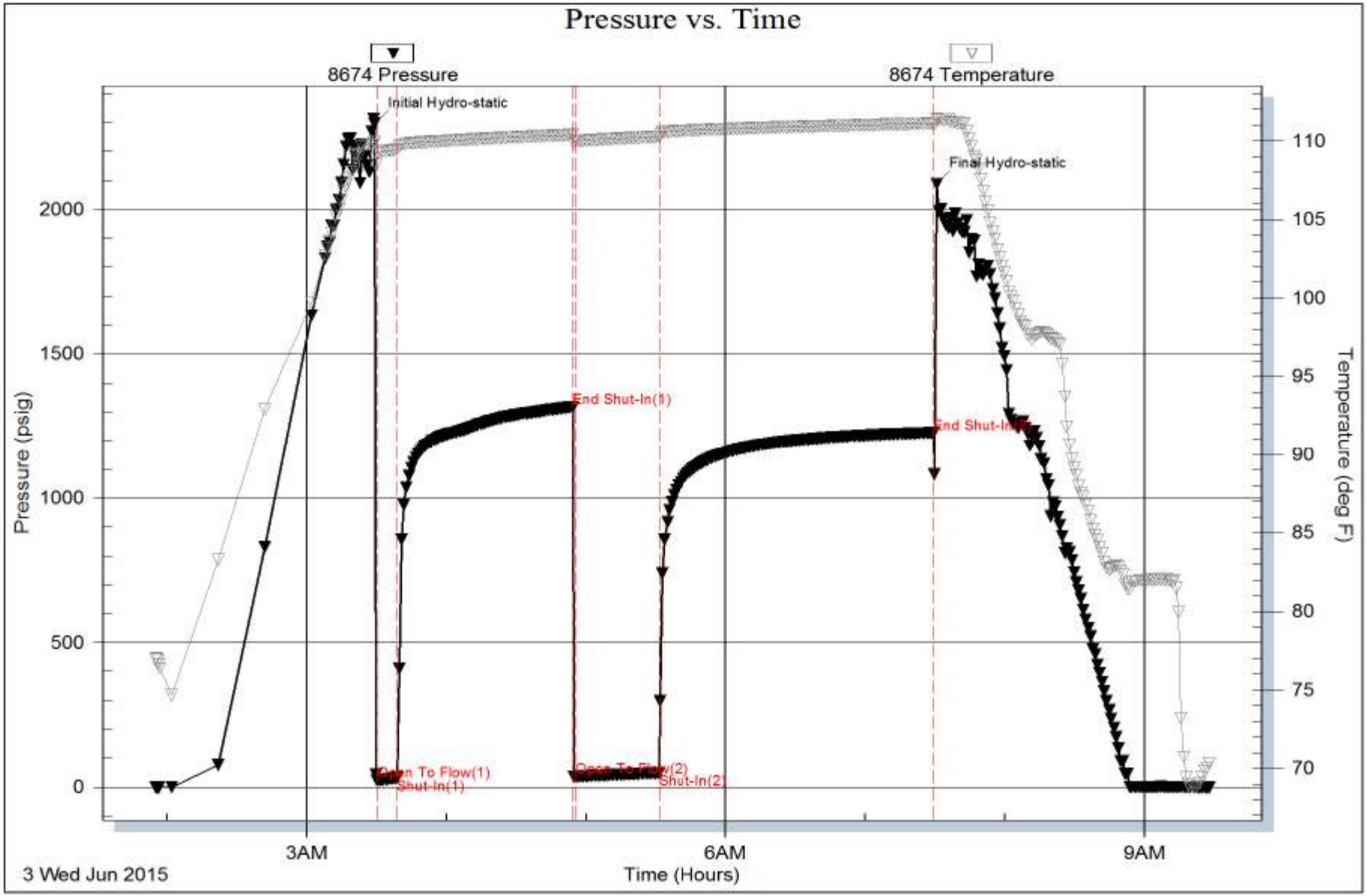
Total Length: 68.00 ft Total Volume: 0.666 bbl

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

Laboratory Name: Laboratory Location:

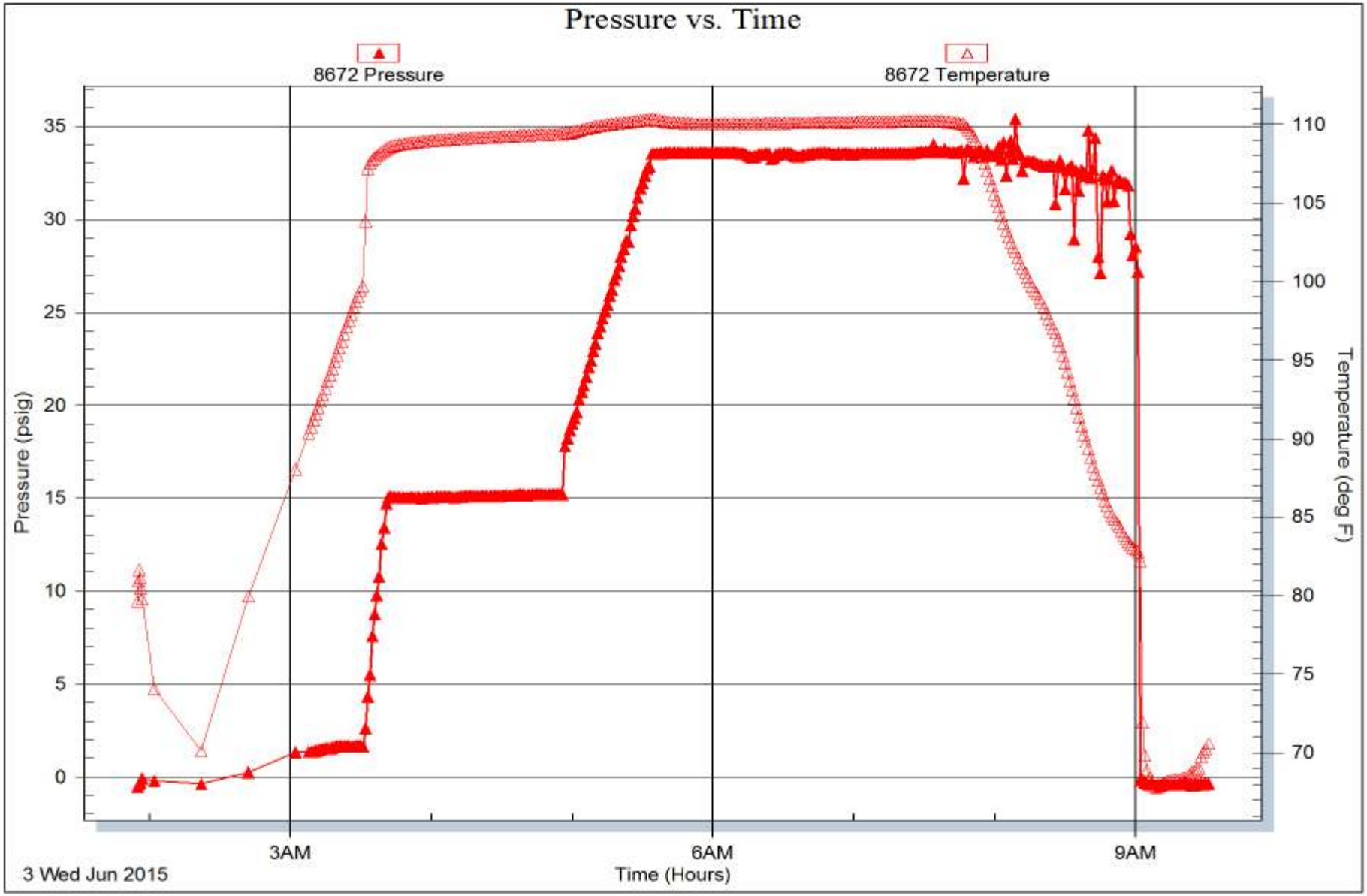
Recovery Comments: API RW .32 @ 71 F = 23000 Chlorides

Serial #: 8674 **Inside** Samuel Gary Jr & Associaes.Inc Crouch 1-20 DST Test Number: 2

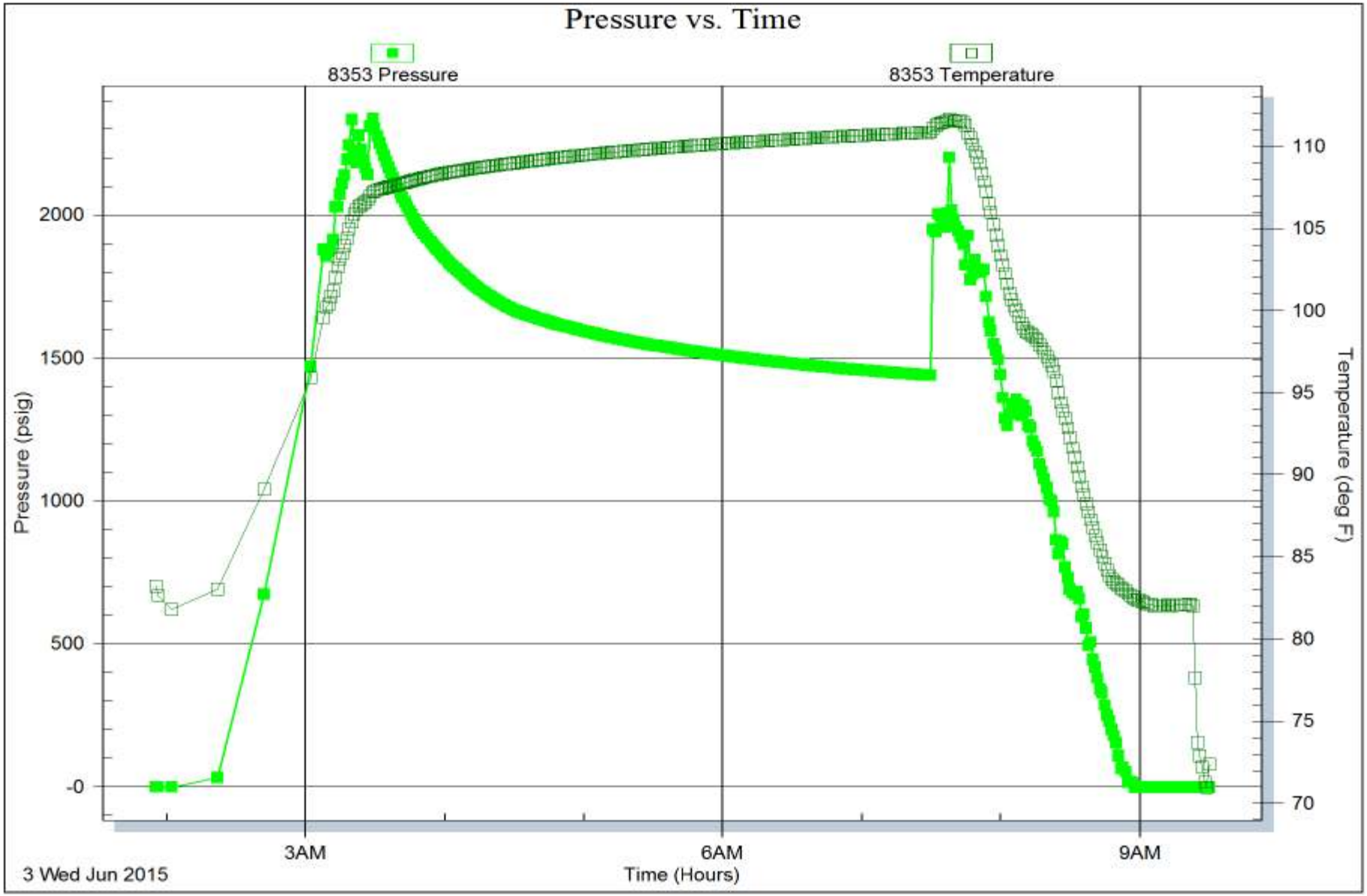


Trilobite Testing, Inc Ref. No: 58664 Printed: 2015.06.03 @ 11:08:41

Serial #: 8672 **Fluid** Samuel Gary Jr & Associaes.Inc Crouch 1-20 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 58664 Printed: 2015.06.03 @ 11:08:41


Pressure vs. Time
8353 Pressure
8353 Temperature
2000
1500
1000
500
-0
Pressure (psig)
110
105
100
95
90
85
80
75
70
Temperature (deg F)
3AM
6AM
9AM
Time (Hours)
3 Wed Jun 2015

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

Well Name:	SGA Crouch 1-20		
Well Id:			
Location:	Sec. 20-15S-35W Logan County, KS		
License Number:	15-109-21409-0000	Region:	Wildcat
Spud Date:	May 19, 2015	Drilling Completed:	June 2, 2015
Surface Coordinates:	2200' FSL 1050' FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	3235'	K.B. Elevation (ft):	3243'
Logged Interval (ft):	3800' To: 4820'	Total Depth (ft):	4820'
Formation:	Lansing / Kansas City		
Type of Drilling Fluid:	Natural Chemical		

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

OPERATOR

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

GEOLOGIST

Name: Jeff Kamps
Company: EARTH TECH OGL,Inc.
Address: PO Box 683 8918 5Th St
Hooker, Okla 73945 Great Bend,Ks. 67530
1-580-652-3924 1-888-543-8378

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Samuel Gary Jr &Associaes.Inc

1515 WYNKOOP, STE 700
Denver Co, 80202

ATTN: Clayton Camozzi

20=15s=35w County Logan

Crouch 1-20

Job Ticket: 58663 **DST#: 1**

Test Start: 2015.06.01 @ 00:44:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 03:32:30
Time Test Ended: 07:57:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Justin Harris
Unit No: 71

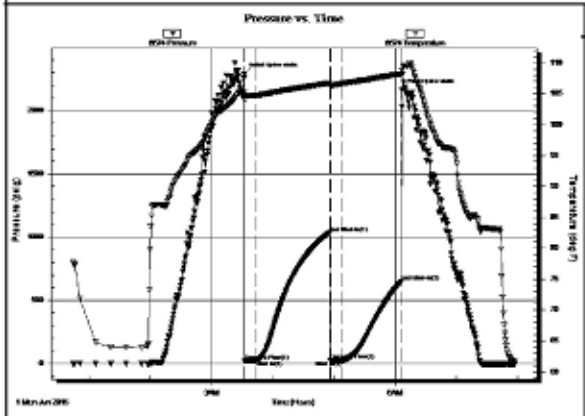
Interval: 4408.00 ft (KB) To 4458.00 ft (KB) (TVD)
Total Depth: 4458.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 3243.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8674 **Inside**
Press@RunDepth: 25.05 psig @ 4409.00 ft (KB)
Start Date: 2015.06.01 End Date: 2015.06.01
Start Time: 00:44:05 End Time: 07:57:14

Capacity: 8000.00 psig
Last Calib.: 2015.06.01
Time On Btm: 2015.06.01 @ 03:32:00
Time Off Btm: 2015.06.01 @ 06:06:45

TEST COMMENT: 10: Weak surface blow .
75: No Return.
10: No Blow .
60: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2288.07	105.16	Initial Hydro-static
1	22.62	104.05	Open To Flow (1)
12	24.21	104.74	Shut-In(1)
84	1034.59	106.72	End Shut-In(1)
85	25.74	106.20	Open To Flow (2)
97	25.05	106.64	Shut-In(2)
155	650.05	108.20	End Shut-In(2)
155	2161.81	108.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud oil spots	0.02

Gas Rates

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

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
- Sltysh
- Lms

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
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

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

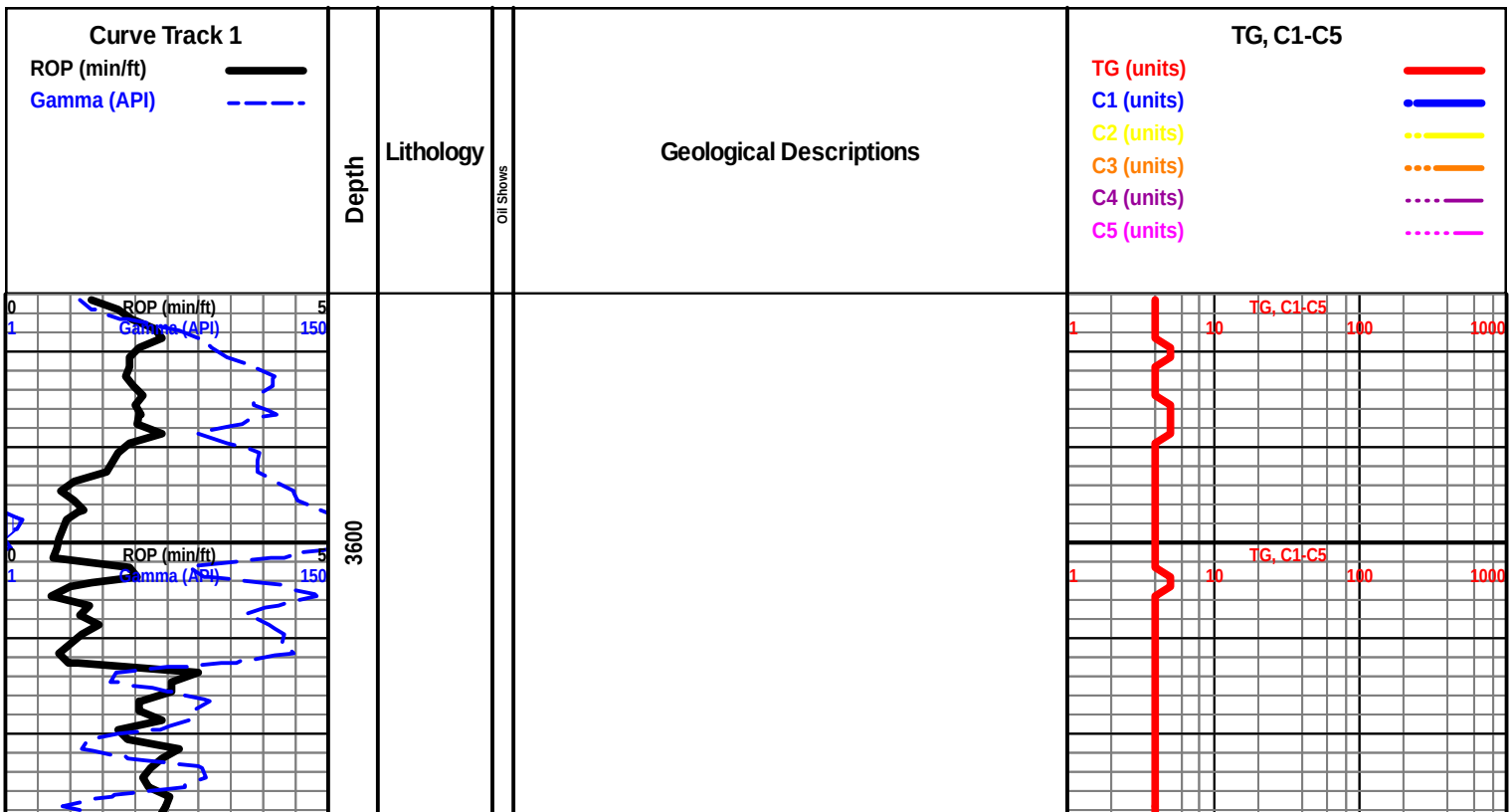
EVENTS
- Rft
- Sidewall

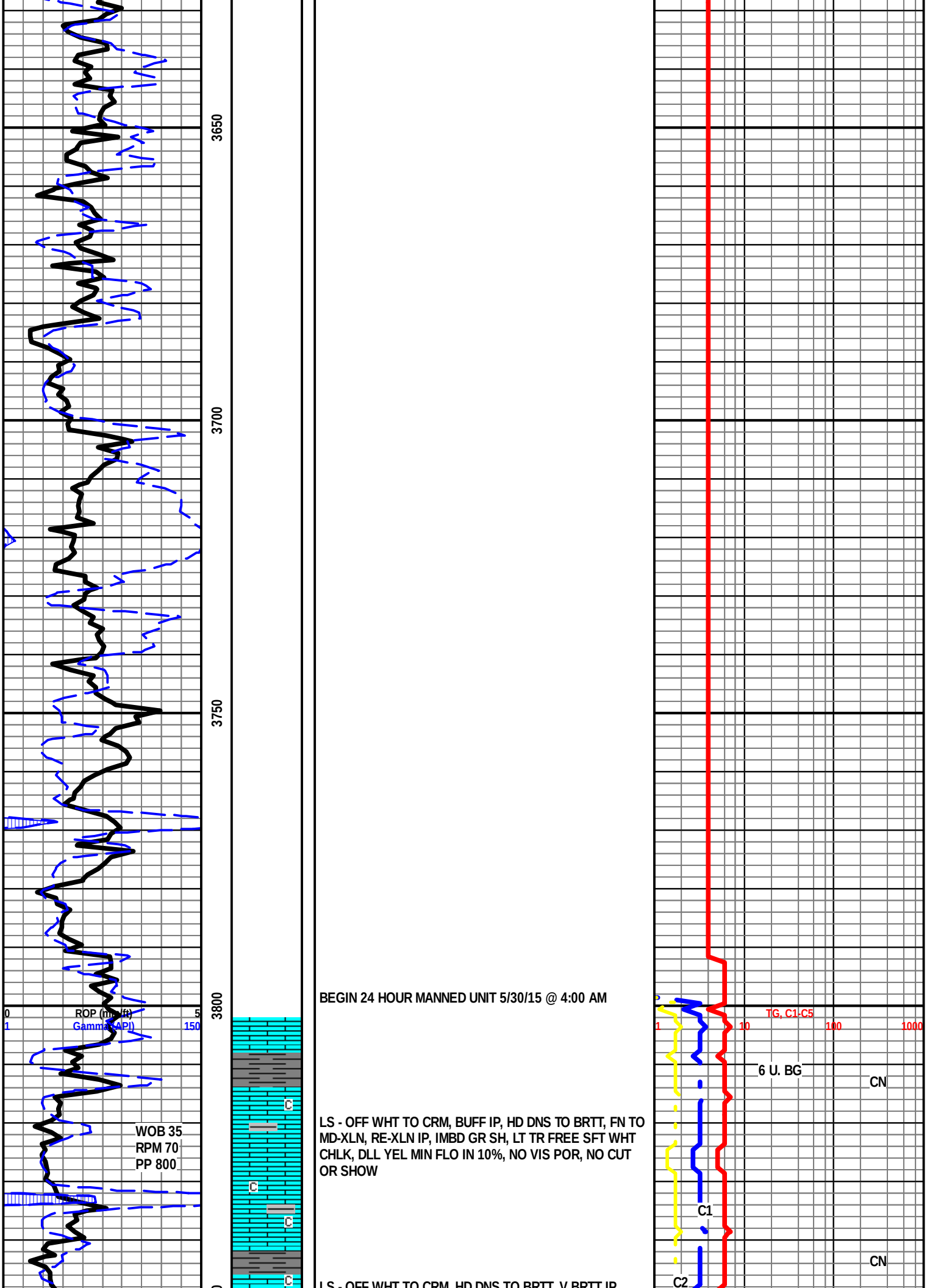
POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

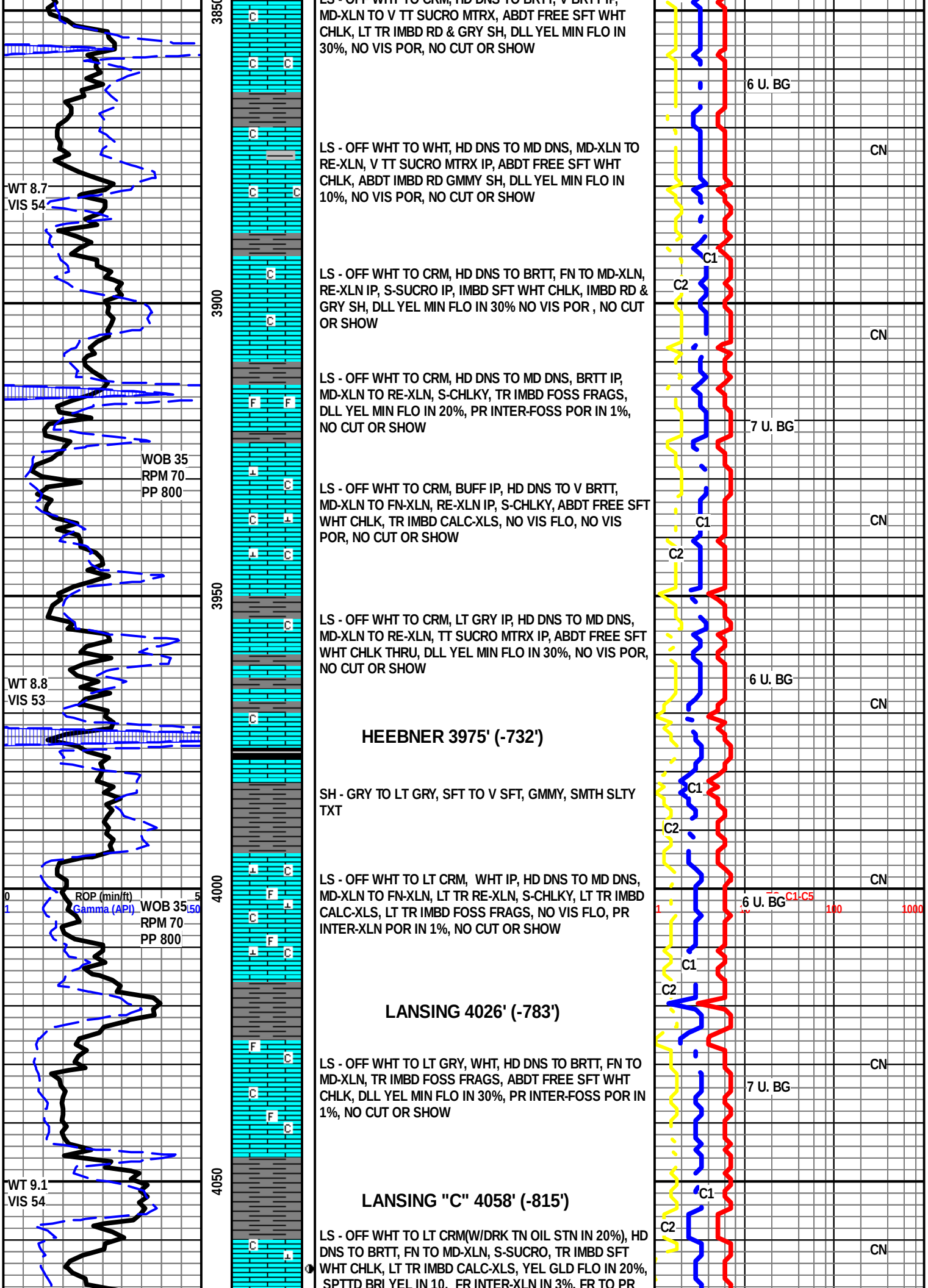
SORTING
- Well
- Moderate
- Poor

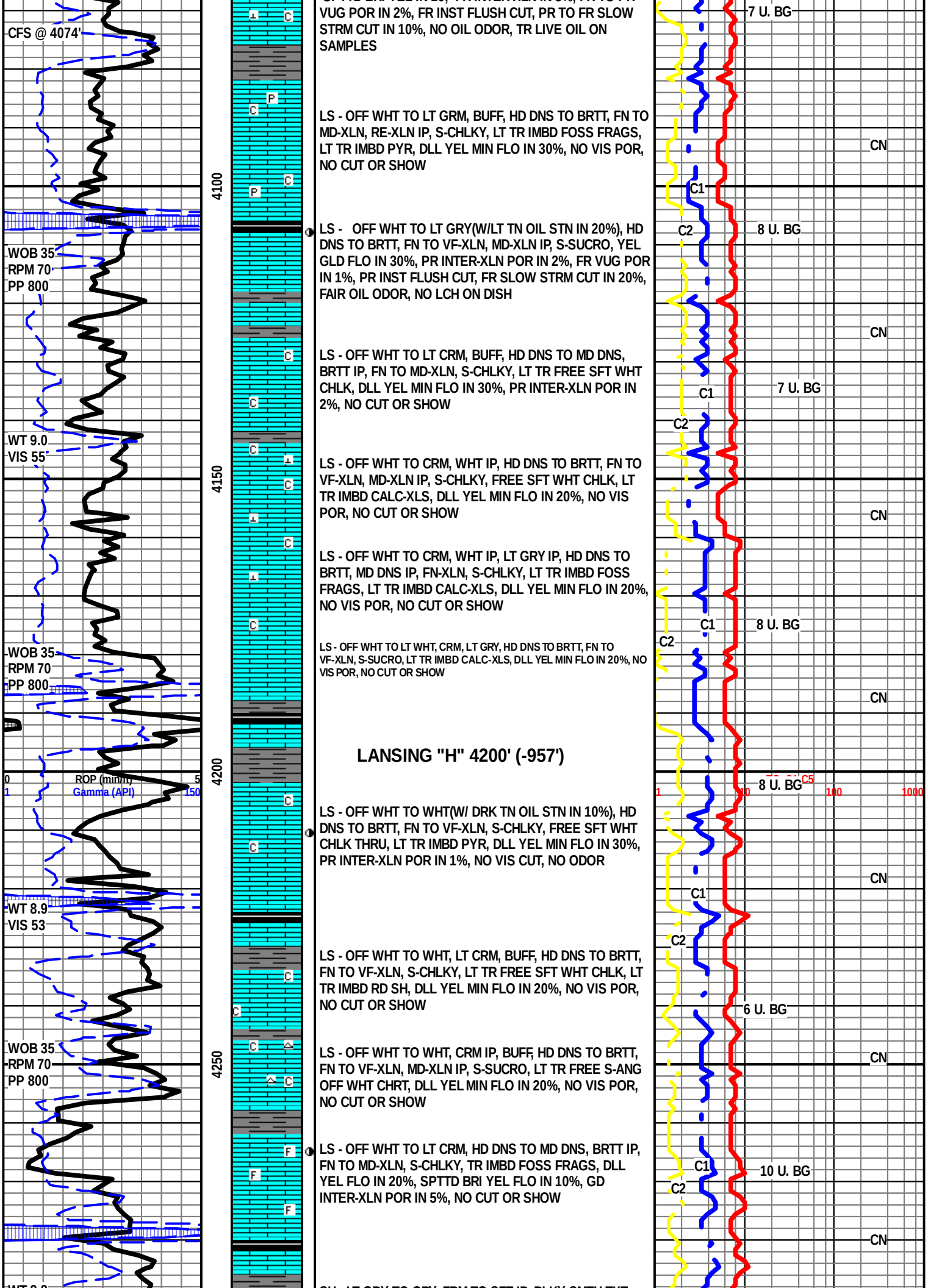
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

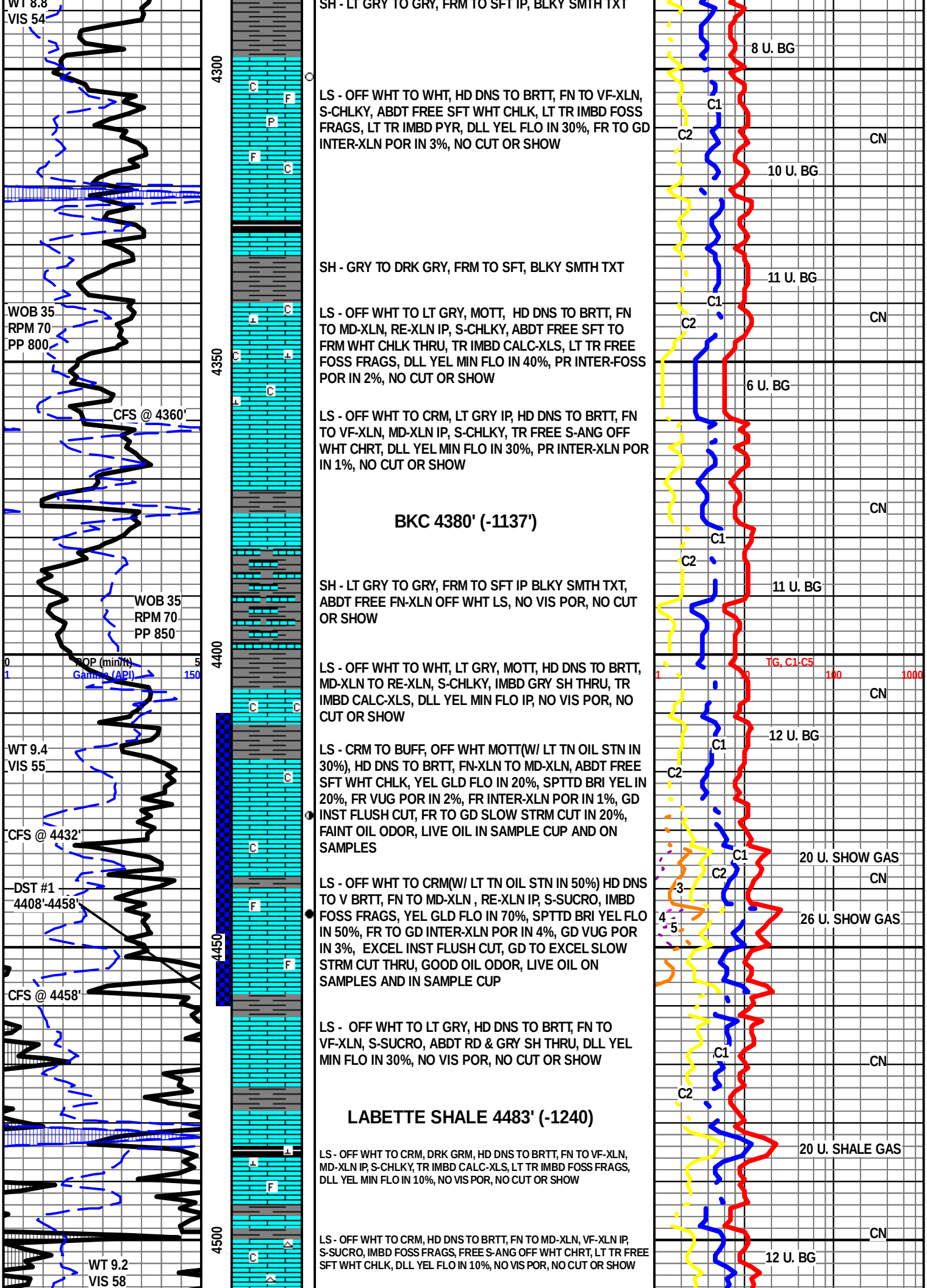
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

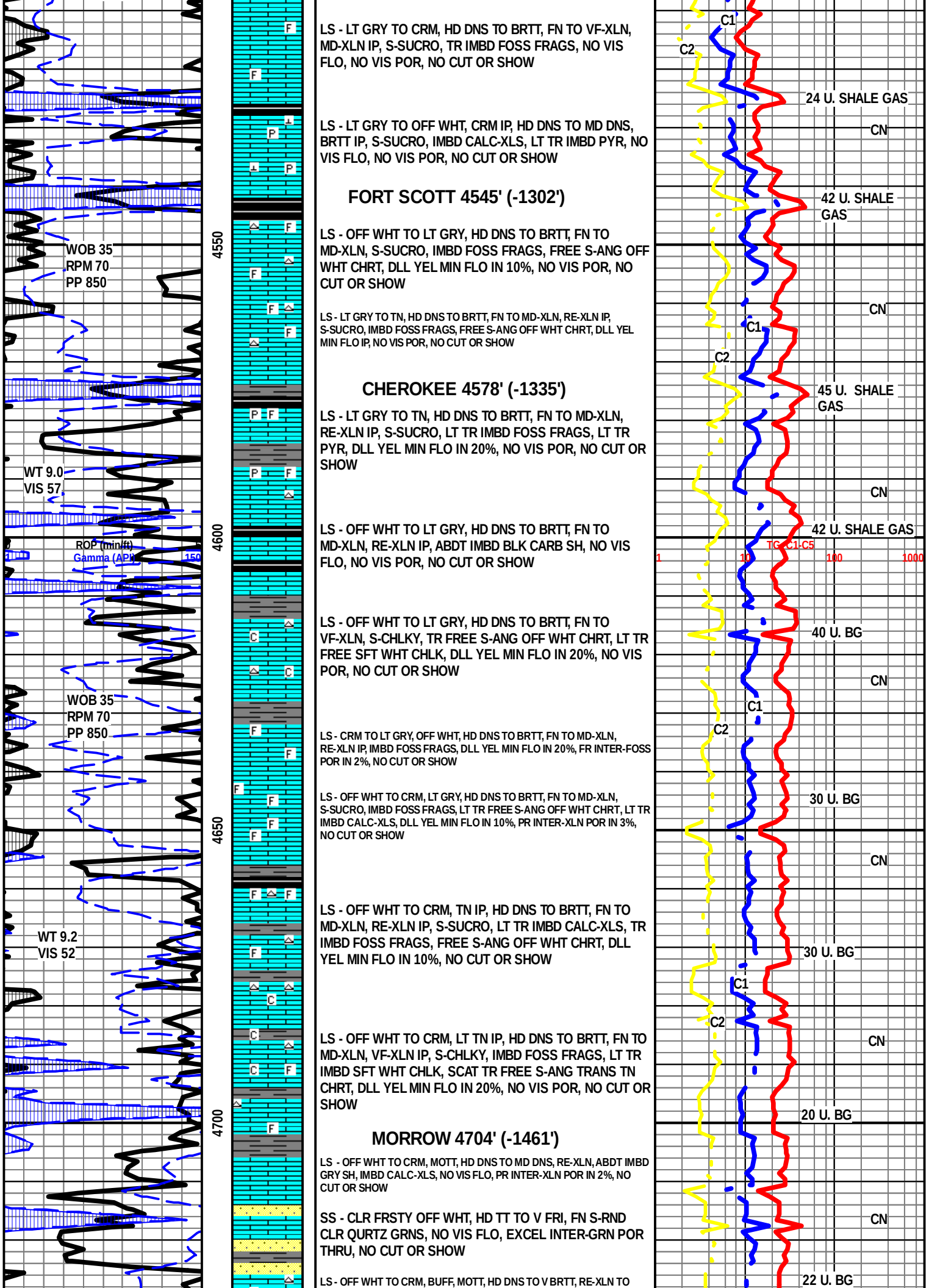


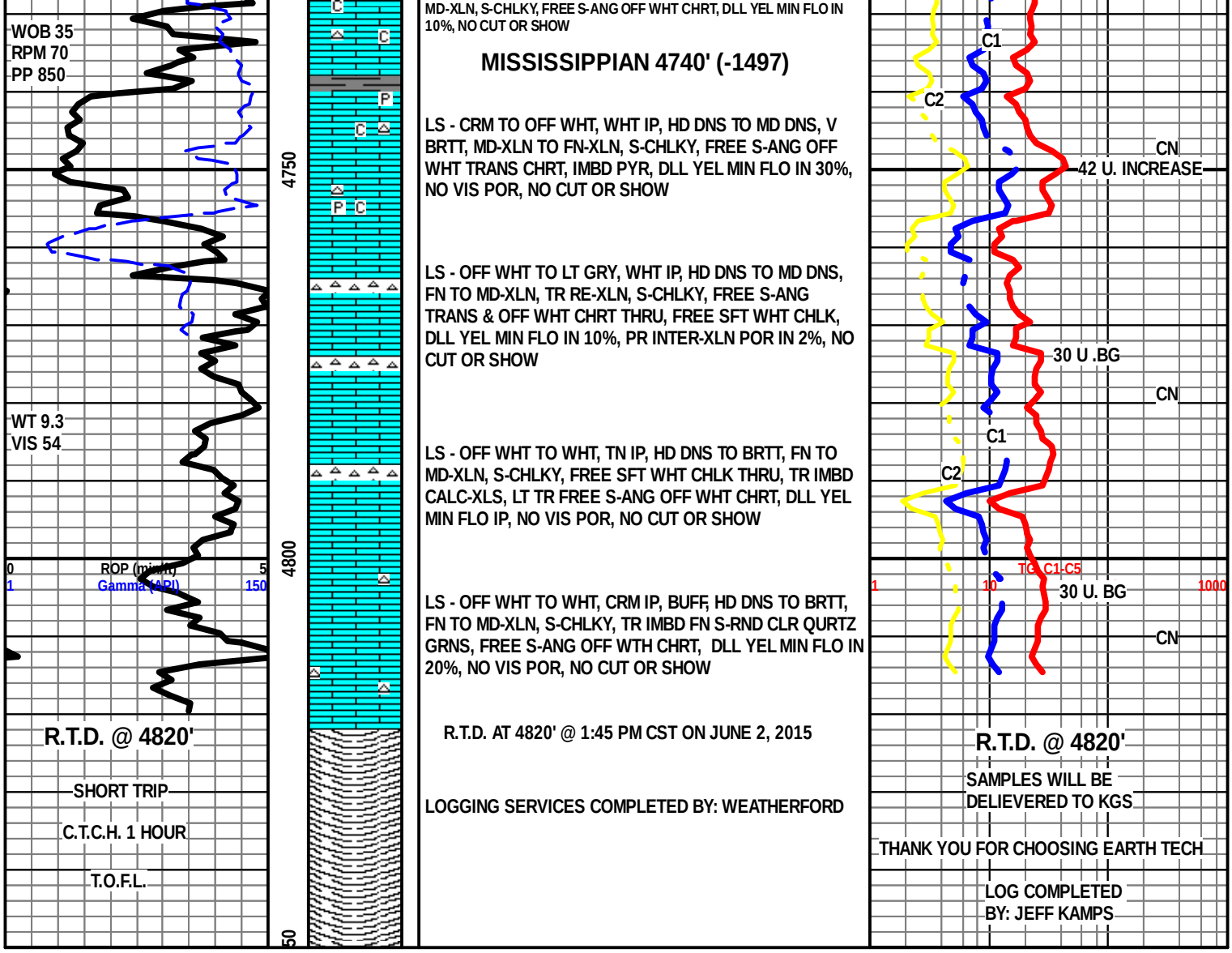

3650
3700
3750
3800
0
ROP (min/ft)
5
1
Gamma (API)
150
WOB 35
RPM 70
PP 800
BEGIN 24 HOUR MANNED UNIT 5/30/15 @ 4:00 AM
LS - OFF WHT TO CRM, BUFF IP, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, IMBD GR SH, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW
C
C
C
C
TG, C1-C5
1
10
100
1000
6 U. BG
CN
C1
CN
C2


MD-XLN TO V TT SUCRO MTRX, ABDT FREE SFT WHT CHLK, LT TR IMBD RD & GRY SH, DLL YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW
6 U. BG
LS - OFF WHT TO WHT, HD DNS TO MD DNS, MD-XLN TO RE-XLN, V TT SUCRO MTRX IP, ABDT FREE SFT WHT CHLK, ABDT IMBD RD GMMY SH, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW
CN
WT 8.7
VIS 54
C1
C2
LS - OFF WHT TO CRM, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO IP, IMBD SFT WHT CHLK, IMBD RD & GRY SH, DLL YEL MIN FLO IN 30% NO VIS POR , NO CUT OR SHOW
CN
LS - OFF WHT TO CRM, HD DNS TO MD DNS, BRTT IP, MD-XLN TO RE-XLN, S-CHLKY, TR IMBD FOSS FRAGS, DLL YEL MIN FLO IN 20%, PR INTER-FOSS POR IN 1%, NO CUT OR SHOW
7 U. BG
WOB 35
RPM 70
PP 800
LS - OFF WHT TO CRM, BUFF IP, HD DNS TO V BRTT, MD-XLN TO FN-XLN, RE-XLN IP, S-CHLKY, ABDT FREE SFT WHT CHLK, TR IMBD CALC-XLS, NO VIS FLO, NO VIS POR, NO CUT OR SHOW
C1
CN
C2
LS - OFF WHT TO CRM, LT GRY IP, HD DNS TO MD DNS, MD-XLN TO RE-XLN, TT SUCRO MTRX IP, ABDT FREE SFT WHT CHLK THRU, DLL YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW
6 U. BG
WT 8.8
VIS 53
CN
HEEBNER 3975' (-732')
C1
SH - GRY TO LT GRY, SFT TO V SFT, GMMY, SMTH SLTY TXT
C2
LS - OFF WHT TO LT CRM, WHT IP, HD DNS TO MD DNS, MD-XLN TO FN-XLN, LT TR RE-XLN, S-CHLKY, LT TR IMBD CALC-XLS, LT TR IMBD FOSS FRAGS, NO VIS FLO, PR INTER-XLN POR IN 1%, NO CUT OR SHOW
CN
0
1
ROP (min/ft)
Gamma (API)
5
50
WOB 35
RPM 70
PP 800
6 U. BG
C1-C5
1
100
1000
C1
C2
LANSING 4026' (-783')
LS - OFF WHT TO LT GRY, WHT, HD DNS TO BRTT, FN TO MD-XLN, TR IMBD FOSS FRAGS, ABDT FREE SFT WHT CHLK, DLL YEL MIN FLO IN 30%, PR INTER-FOSS POR IN 1%, NO CUT OR SHOW
CN
7 U. BG
WT 9.1
VIS 54
LANSING "C" 4058' (-815')
C1
C2
LS - OFF WHT TO LT CRM(W/DRK TN OIL STN IN 20%), HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, TR IMBD SFT WHT CHLK, LT TR IMBD CALC-XLS, YEL GLD FLO IN 20%, SPTTD BRI YEL IN 10, FR INTER-XLN IN 3%, FR TO PR
CN
3850
3900
3950
4000
4050


CFS @ 4074'
WOB 35
RPM 70
PP 800
WT 9.0
VIS 55
WOB 35
RPM 70
PP 800
0
ROP (min/ft)
5
1
Gamma (API)
150
WT 8.9
VIS 53
WOB 35
RPM 70
PP 800
4100
4150
4200
4250
VUG POR IN 2%, FR INST FLUSH CUT, PR TO FR SLOW STRM CUT IN 10%, NO OIL ODOR, TR LIVE OIL ON SAMPLES
LS - OFF WHT TO LT GRM, BUFF, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-CHLKY, LT TR IMBD FOSS FRAGS, LT TR IMBD PYR, DLL YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO LT GRY(W/LT TN OIL STN IN 20%), HD DNS TO BRTT, FN TO VF-XLN, MD-XLN IP, S-SUCRO, YEL GLD FLO IN 30%, PR INTER-XLN POR IN 2%, FR VUG POR IN 1%, PR INST FLUSH CUT, FR SLOW STRM CUT IN 20%, FAIR OIL ODOR, NO LCH ON DISH
LS - OFF WHT TO LT CRM, BUFF, HD DNS TO MD DNS, BRTT IP, FN TO MD-XLN, S-CHLKY, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IN 2%, NO CUT OR SHOW
LS - OFF WHT TO CRM, WHT IP, HD DNS TO BRTT, FN TO VF-XLN, MD-XLN IP, S-CHLKY, FREE SFT WHT CHLK, LT TR IMBD CALC-XLS, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO CRM, WHT IP, LT GRY IP, HD DNS TO BRTT, MD DNS IP, FN-XLN, S-CHLKY, LT TR IMBD FOSS FRAGS, LT TR IMBD CALC-XLS, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO LT WHT, CRM, LT GRY, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, LT TR IMBD CALC-XLS, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
LANSING "H" 4200' (-957')
LS - OFF WHT TO WHT(W/ DRK TN OIL STN IN 10%), HD DNS TO BRTT, FN TO VF-XLN, S-CHLKY, FREE SFT WHT CHLK THRU, LT TR IMBD PYR, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IN 1%, NO VIS CUT, NO ODOR
LS - OFF WHT TO WHT, LT CRM, BUFF, HD DNS TO BRTT, FN TO VF-XLN, S-CHLKY, LT TR FREE SFT WHT CHLK, LT TR IMBD RD SH, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO WHT, CRM IP, BUFF, HD DNS TO BRTT, FN TO VF-XLN, MD-XLN IP, S-SUCRO, LT TR FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO LT CRM, HD DNS TO MD DNS, BRTT IP, FN TO MD-XLN, S-CHLKY, TR IMBD FOSS FRAGS, DLL YEL FLO IN 20%, SPTTD BRI YEL FLO IN 10%, GD INTER-XLN POR IN 5%, NO CUT OR SHOW
7 U. BG
CN
C1
C2
8 U. BG
CN
C1
7 U. BG
C2
CN
C1
8 U. BG
C2
CN
8 U. BG
C5
1
10
100
1000
CN
C1
C2
6 U. BG
CN
C1
10 U. BG
C2
CN


WT 8.8
VIS 54
WOB 35
RPM 70
PP 800
CFS @ 4360'
WOB 35
RPM 70
PP 850
0
ROP (min/ft)
5
1
Gamma (API)
150
WT 9.4
VIS 55
CFS @ 4432'
DST #1
4408'-4458'
CFS @ 4458'
WT 9.2
VIS 58
4300
4350
4400
4450
4500
SH - LT GRY TO GRY, FRM TO SFT IP, BLKY SMTH TXT
LS - OFF WHT TO WHT, HD DNS TO BRTT, FN TO VF-XLN, S-CHLKY, ABDT FREE SFT WHT CHLK, LT TR IMBD FOSS FRAGS, LT TR IMBD PYR, DLL YEL FLO IN 30%, FR TO GD INTER-XLN POR IN 3%, NO CUT OR SHOW
SH - GRY TO DRK GRY, FRM TO SFT, BLKY SMTH TXT
LS - OFF WHT TO LT GRY, MOTT, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-CHLKY, ABDT FREE SFT TO FRM WHT CHLK THRU, TR IMBD CALC-XLS, LT TR FREE FOSS FRAGS, DLL YEL MIN FLO IN 40%, PR INTER-FOSS POR IN 2%, NO CUT OR SHOW
LS - OFF WHT TO CRM, LT GRY IP, HD DNS TO BRTT, FN TO VF-XLN, MD-XLN IP, S-CHLKY, TR FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IN 1%, NO CUT OR SHOW
BKC 4380' (-1137')
SH - LT GRY TO GRY, FRM TO SFT IP BLKY SMTH TXT, ABDT FREE FN-XLN OFF WHT LS, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO WHT, LT GRY, MOTT, HD DNS TO BRTT, MD-XLN TO RE-XLN, S-CHLKY, IMBD GRY SH THRU, TR IMBD CALC-XLS, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
LS - CRM TO BUFF, OFF WHT MOTT(W/ LT TN OIL STN IN 30%), HD DNS TO BRTT, FN-XLN TO MD-XLN, ABDT FREE SFT WHT CHLK, YEL GLD FLO IN 20%, SPTTD BRI YEL IN 20%, FR VUG POR IN 2%, FR INTER-XLN POR IN 1%, GD INST FLUSH CUT, FR TO GD SLOW STRM CUT IN 20%, FAINT OIL ODOR, LIVE OIL IN SAMPLE CUP AND ON SAMPLES
LS - OFF WHT TO CRM(W/ LT TN OIL STN IN 50%) HD DNS TO V BRTT, FN TO MD-XLN , RE-XLN IP, S-SUCRO, IMBD FOSS FRAGS, YEL GLD FLO IN 70%, SPTTD BRI YEL FLO IN 50%, FR TO GD INTER-XLN POR IN 4%, GD VUG POR IN 3%, EXCEL INST FLUSH CUT, GD TO EXCEL SLOW STRM CUT THRU, GOOD OIL ODOR, LIVE OIL ON SAMPLES AND IN SAMPLE CUP
LS - OFF WHT TO LT GRY, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, ABDT RD & GRY SH THRU, DLL YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW
LABETTE SHALE 4483' (-1240)
LS - OFF WHT TO CRM, DRK GRM, HD DNS TO BRTT, FN TO VF-XLN, MD-XLN IP, S-CHLKY, TR IMBD CALC-XLS, LT TR IMBD FOSS FRAGS, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO CRM, HD DNS TO BRTT, FN TO MD-XLN, VF-XLN IP, S-SUCRO, IMBD FOSS FRAGS, FREE S-ANG OFF WHT CHRT, LT TR FREE SFT WHT CHLK, DLL YEL FLO IN 10%, NO VIS POR, NO CUT OR SHOW
8 U. BG
10 U. BG
11 U. BG
6 U. BG
11 U. BG
TG, C1-C5
1
10
100
1000
12 U. BG
20 U. SHOW GAS
26 U. SHOW GAS
20 U. SHALE GAS
12 U. BG
C1
C2
CN
3
4
5


WOB 35
RPM 70
PP 850
WT 9.0
VIS 57
ROP (min/ft)
Gamma (API)
150
WOB 35
RPM 70
PP 850
WT 9.2
VIS 52
4550
4600
4650
4700
LS - LT GRY TO CRM, HD DNS TO BRTT, FN TO VF-XLN, MD-XLN IP, S-SUCRO, TR IMBD FOSS FRAGS, NO VIS FLO, NO VIS POR, NO CUT OR SHOW
LS - LT GRY TO OFF WHT, CRM IP, HD DNS TO MD DNS, BRTT IP, S-SUCRO, IMBD CALC-XLS, LT TR IMBD PYR, NO VIS FLO, NO VIS POR, NO CUT OR SHOW
FORT SCOTT 4545' (-1302')
LS - OFF WHT TO LT GRY, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, IMBD FOSS FRAGS, FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW
LS - LT GRY TO TN, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, IMBD FOSS FRAGS, FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
CHEROKEE 4578' (-1335')
LS - LT GRY TO TN, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, LT TR IMBD FOSS FRAGS, LT TR PYR, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO LT GRY, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, ABDT IMBD BLK CARB SH, NO VIS FLO, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO LT GRY, HD DNS TO BRTT, FN TO VF-XLN, S-CHLKY, TR FREE S-ANG OFF WHT CHRT, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
LS - CRM TO LT GRY, OFF WHT, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, IMBD FOSS FRAGS, DLL YEL MIN FLO IN 20%, FR INTER-FOSS POR IN 2%, NO CUT OR SHOW
LS - OFF WHT TO CRM, LT GRY, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, IMBD FOSS FRAGS, LT TR FREE S-ANG OFF WHT CHRT, LT TR IMBD CALC-XLS, DLL YEL MIN FLO IN 10%, PR INTER-XLN POR IN 3%, NO CUT OR SHOW
LS - OFF WHT TO CRM, TN IP, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, LT TR IMBD CALC-XLS, TR IMBD FOSS FRAGS, FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IN 10%, NO CUT OR SHOW
LS - OFF WHT TO CRM, LT TN IP, HD DNS TO BRTT, FN TO MD-XLN, VF-XLN IP, S-CHLKY, IMBD FOSS FRAGS, LT TR IMBD SFT WHT CHLK, SCAT TR FREE S-ANG TRANS TN CHRT, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
MORROW 4704' (-1461')
LS - OFF WHT TO CRM, MOTT, HD DNS TO MD DNS, RE-XLN, ABDT IMBD GRY SH, IMBD CALC-XLS, NO VIS FLO, PR INTER-XLN POR IN 2%, NO CUT OR SHOW
SS - CLR FRSTY OFF WHT, HD TT TO V FRI, FN S-RND CLR QURTZ GRNS, NO VIS FLO, EXCEL INTER-GRN POR THRU, NO CUT OR SHOW
LS - OFF WHT TO CRM, BUFF, MOTT, HD DNS TO V BRTT, RE-XLN TO
C1
C2
24 U. SHALE GAS
CN
42 U. SHALE GAS
CN
C1
C2
45 U. SHALE GAS
CN
42 U. SHALE GAS
TG C1-C5
1
10
100
1000
40 U. BG
CN
C1
C2
30 U. BG
CN
30 U. BG
C1
C2
CN
20 U. BG
CN
22 U. BG


WOB 35
RPM 70
PP 850
WT 9.3
VIS 54
0
ROP (m/min)
5
1
Gamma (API)
150
R.T.D. @ 4820'
SHORT TRIP
C.T.C.H. 1 HOUR
T.O.F.L.
4750
4800
50
C
P
MD-XLN, S-CHLKY, FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IN 10%, NO CUT OR SHOW
MISSISSIPPIAN 4740' (-1497)
LS - CRM TO OFF WHT, WHT IP, HD DNS TO MD DNS, V BRTT, MD-XLN TO FN-XLN, S-CHLKY, FREE S-ANG OFF WHT TRANS CHRT, IMBD PYR, DLL YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO LT GRY, WHT IP, HD DNS TO MD DNS, FN TO MD-XLN, TR RE-XLN, S-CHLKY, FREE S-ANG TRANS & OFF WHT CHRT THRU, FREE SFT WHT CHLK, DLL YEL MIN FLO IN 10%, PR INTER-XLN POR IN 2%, NO CUT OR SHOW
LS - OFF WHT TO WHT, TN IP, HD DNS TO BRTT, FN TO MD-XLN, S-CHLKY, FREE SFT WHT CHLK THRU, TR IMBD CALC-XLS, LT TR FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO WHT, CRM IP, BUFF, HD DNS TO BRTT, FN TO MD-XLN, S-CHLKY, TR IMBD FN S-RND CLR QURTZ GRNS, FREE S-ANG OFF WTH CHRT, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
R.T.D. AT 4820' @ 1:45 PM CST ON JUNE 2, 2015
LOGGING SERVICES COMPLETED BY: WEATHERFORD
C1
C2
CN
42 U. INCREASE
30 U .BG
CN
C1
C2
TG C1-C5
1
10
30 U. BG
1000
CN
R.T.D. @ 4820'
SAMPLES WILL BE DELIEVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH
LOG COMPLETED BY: JEFF KAMPS