

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

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 #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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
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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				

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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

AGV Corporation
 PO Box 377
 Attica, KS 67009-0377
 ATTN: Kent Roberts

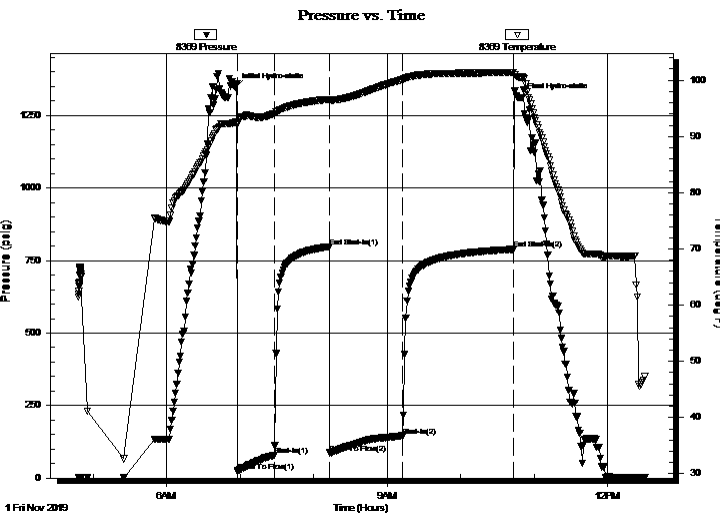
35-25S-3E Butler, KS
Sprague #1
 Job Ticket: 65412 **DST#: 1**
 Test Start: 2019.11.01 @ 04:48:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:57:50
 Time Test Ended: 12:30:39
 Interval: **2694.00 ft (KB) To 2734.00 ft (KB) (TVD)**
 Total Depth: 2734.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1313.00 ft (KB)
 1304.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 145.95 psig @ 2695.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.01 End Date: 2019.11.01 Last Calib.: 2019.11.01
 Start Time: 04:48:01 End Time: 12:30:40 Time On Btm: 2019.11.01 @ 06:56:00
 Time Off Btm: 2019.11.01 @ 10:48:39

TEST COMMENT: IF - Weak blow building to 7"
 FF - Weak blow building to 8"



PRESSURE SUMMARY

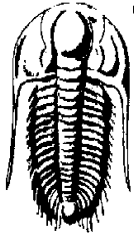
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1345.57	92.53	Initial Hydro-static
2	24.02	92.31	Open To Flow (1)
32	79.37	94.11	Shut-In(1)
77	797.52	96.62	End Shut-In(1)
78	86.92	96.38	Open To Flow (2)
137	145.95	100.16	Shut-In(2)
228	788.82	101.40	End Shut-In(2)
233	1311.06	100.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW w / Tr O 85%W & 15%M	0.89
120.00	WM w / Tr O 2%W & 98%M	1.09

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

AGV Corporation
PO Box 377
Attica, KS 67009-0377

ATTN: Kent Roberts

35-25S-3E Butler, KS
Sprague #1
Job Ticket: 65412 **DST#: 1**
Test Start: 2019.11.01 @ 04:48:00

GENERAL INFORMATION:

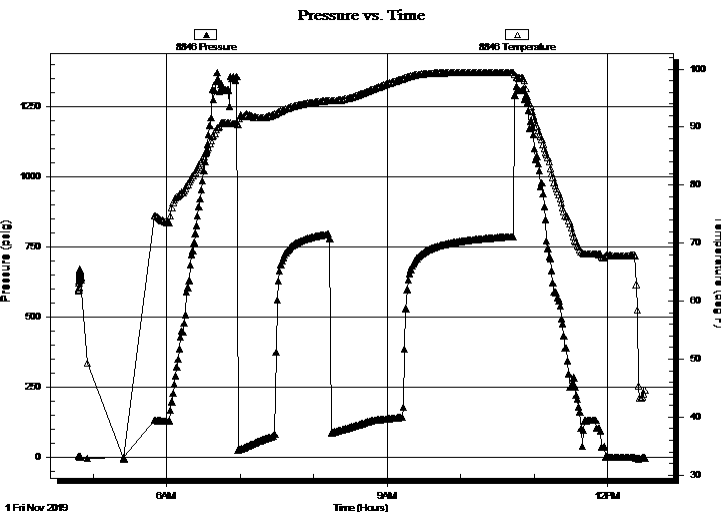
Formation: **Mississippian**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 06:57:50 Tester: Jimmy Ricketts
Time Test Ended: 12:30:39 Unit No: 80

Interval: **2694.00 ft (KB) To 2734.00 ft (KB) (TVD)** Reference Elevations: 1313.00 ft (KB)
Total Depth: 2734.00 ft (KB) (TVD) 1304.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8846 Inside

Press@RunDepth: psig @ 2695.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.11.01 End Date: 2019.11.01 Last Calib.: 1899.12.30
Start Time: 04:48:01 End Time: 12:30:50 Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 7"
FF - Weak blow building to 8"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW w / Tr O 85%W & 15%M	0.89
120.00	WM w / Tr O 2%W & 98%M	1.09

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

AGV Corporation
PO Box 377
Attica, KS 67009-0377
ATTN: Kent Roberts

35-25S-3E Butler, KS
Sprague #1
Job Ticket: 65412 **DST#: 1**
Test Start: 2019.11.01 @ 04:48:00

Mud and Cushion Information

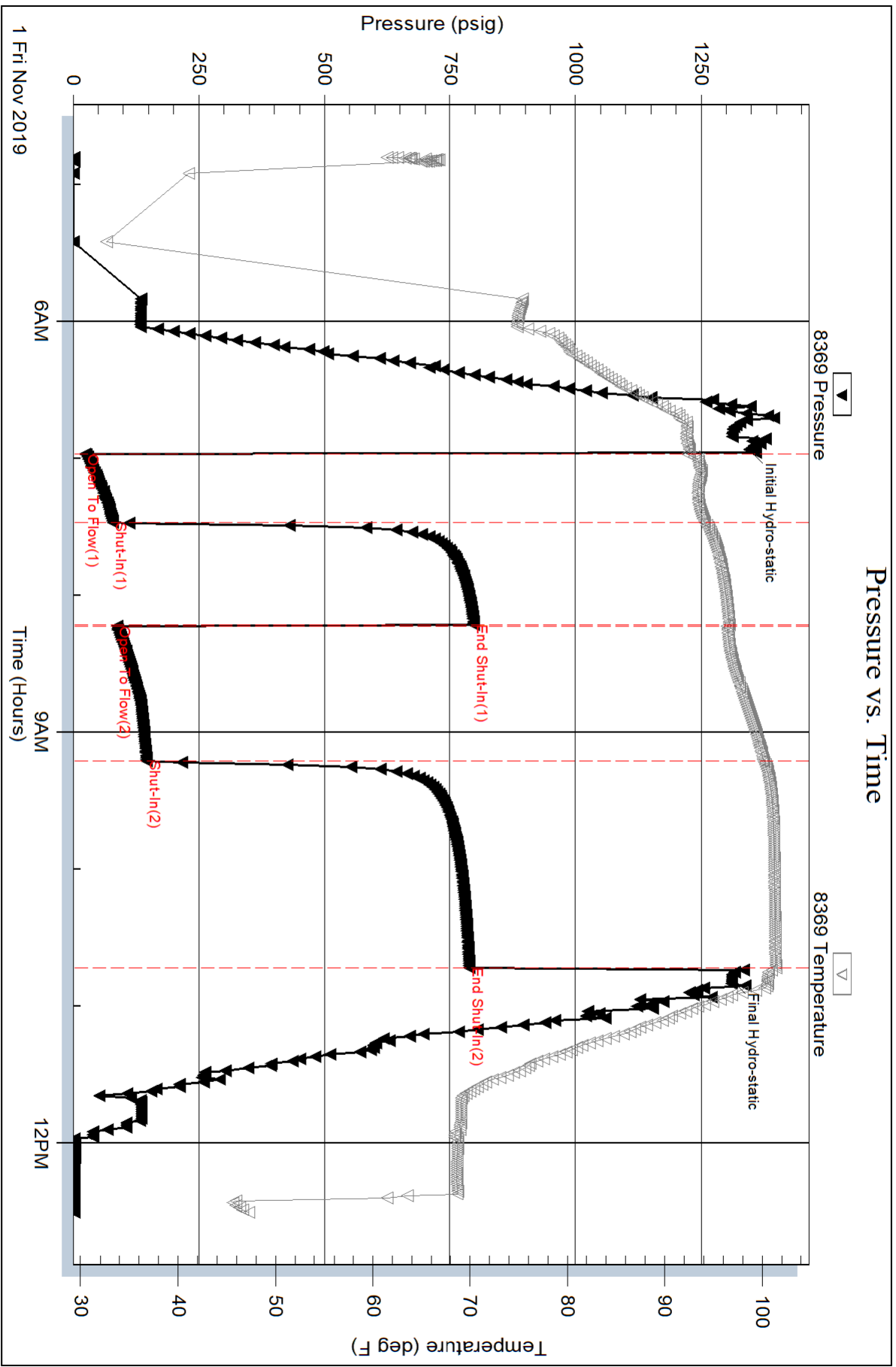
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MW w/ Tr O 85%W & 15%M	0.885
120.00	WM w/ Tr O 2%W & 98%M	1.091

Total Length: 300.00 ft Total Volume: 1.976 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



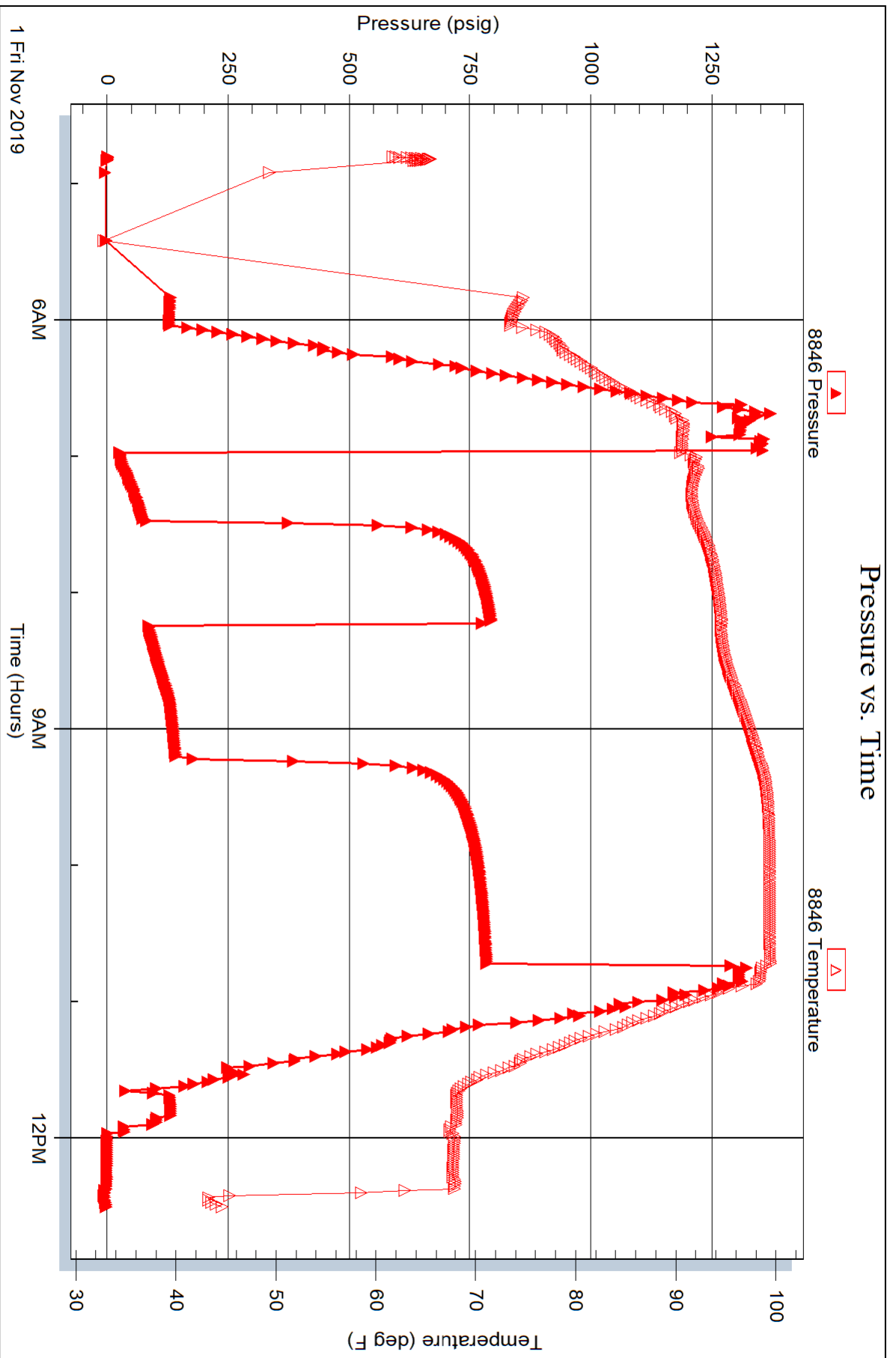
Serial #: 8846

Inside

AGV Corporation

Sprague #1

DST Test Number: 1



Elite Cementing & Acidizing of KS, LLC
 PO Box 92
 Eureka, KS 67045



Date	Invoice #
11/5/2019	4797

Bill To	
AGV Corporation 123 N. Main Attica, KS 67009	
Customer ID#	1358

PAID
 NOV 15 2019
PAID
 BY: _____

Job Date	11/2/2019
Lease Information	
Sprague #1	
County	Butler
Foreman	KM

Item	Description	Qty	Rate	Amount
C103	Cement Pump-Plug (new well)	1	1,100.00	1,100.00
C107	Pump Truck Mileage (one way)	20	4.20	84.00
C203	Pozmix Cement 60/40	110	13.40	1,474.00T
C206	Gel Bentonite	380	0.21	79.80T
C108A	Ton Mileage (min. charge)	1	365.00	365.00
D101	Discount on Services		-77.26	-77.26
D102	Discount on Materials		-77.69	-77.69T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
 Elite Cementing & Acidizing of KS, LLC
 PO Box 92
 Eureka, KS 67045

Subtotal	\$2,947.85
Sales Tax (6.5%)	\$95.95
Total	\$3,043.80
Payments/Credits	\$0.00
Balance Due	\$3,043.80

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. **4797**
 Foreman Kevin McCoy
 Camp EUREKA

API # 15-015-24136

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
11-2-19	1358	Sprague #1	35	25S	3E	Butler	Ks
Customer	Mailing Address		Safety Meeting KM AM ZA	Unit #	Driver	Unit #	Driver
AGV Corp.	P.O. Box 377			104	ALAN M.		
City	State	Zip Code		110	Zevi A.		
Attica	Ks	67009					

Job Type P.T.A. New Well Hole Depth 2831 Slurry Vol. _____ Tubing _____
 Casing Depth _____ Hole Size _____ Slurry Wt. _____ Drill Pipe 4 1/2
 Casing Size & Wt. _____ Cement Left in Casing _____ Water Gal/SK _____ Other _____
 Displacement _____ Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig up to 4 1/2 DRILL pipe, Spot Cement Plugs AS Following.
35 SKS @ 300'
25 SKS 60' to SURFACE
30 SKS R.H.
20 SKS M.H.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 103	1	Pump Charge	1100.00	1100.00
C 107	20	Mileage	4.20	84.00
C 203	110 SKS	60/40 Pozmix Cement	13.40	1474.00
C 206	380 #	GEL 4%	.21 #	79.80
C.108 A	4.73 TONS	Ton Mileage	M/C	365.00
			Sub Total	3102.80
			Less 5%	160.00
			Sales Tax	101.00
			Total	3043.80

Authorization Kent Roberts Title _____

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

Elite Cementing & Acidizing of KS, LLC
 PO Box 92
 Eureka, KS 67045



Date	Invoice #
10/31/2019	4779

Bill To	
AGV Corporation 123 N. Main Attica, KS 67009	
Customer ID#	1358

PAID
 NOV 15 2019
PAID
 BY: _____

Job Date	10/29/2019
Lease Information	
Sprague #1	
County	Butler
Foreman	DG

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C101	Cement Pump-Surface	1	840.00	840.00
C107	Pump Truck Mileage (one way)	30	4.20	126.00
C200	Class A Cement-94# sack	125	15.75	1,968.75T
C205	Calcium Chloride	350	0.63	220.50T
C206	Gel Bentonite	235	0.21	49.35T
C108A	Ton Mileage (min. charge)	1	365.00	365.00
D101	Discount on Services		-66.55	-66.55
D102	Discount on Materials		-111.93	-111.93T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
 Elite Cementing & Acidizing of KS, LLC
 PO Box 92
 Eureka, KS 67045

Subtotal	\$3,391.12
Sales Tax (6.5%)	\$138.23
Total	\$3,529.35
Payments/Credits	\$0.00
Balance Due	\$3,529.35

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. **4779**
 Foreman David Gardner
 Camp Eureka

API # 15-015-24136

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
10-29-19	1358	Sprague #1	35	25 S.	3 E.	Butler	KS
Customer	Mailing Address		Safety Meeting	Unit #	Driver	Unit #	Driver
AGV Corporation	123 N. Main		DG JH ZA	105	Jasen		
City	State	Zip Code		112	Zavi		
Attica	KS	67009					

Job Type Surface Hole Depth 269' Slurry Vol. 33 Bbl Tubing _____
 Casing Depth 254.63' Hole Size 12 1/4" Slurry Wt. 15" Drill Pipe _____
 Casing Size & Wt. 8 5/8" 24" Cement Left in Casing 15' 1/2" Water Gal/SK 6.5 Other _____
 Displacement 16 Bbl Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting. Rig up to 8 5/8" casing. Break circulation w/ 10 Bbl fresh water. Mixed 125 sks Class 'A' Cement w/ 3% Cacl2, 2% Gel @ 15"/gal, yield 1.48 = 33 Bbl Slurry. Displace w/ 16 Bbl fresh water. Shut down. Close casing in. Good circulation @ all times while cementing. Good cement returns to surface = 5 Bbl slurry to pit. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	840.00	840.00
C107	30	Mileage	4.20	126.00
C206	125 SKS	Class 'A' Cement	15.75	1968.75
C205	350"	Cacl2 @ 3%	.63	220.50
C206	235"	Gel @ 2%	.21	49.35
C108A	5.875 Tons	Ton Mileage - Bulk Truck	M/C	365.00
<u>Thank You</u>				
			Sub Total	3,569.60
			Less 5%	185.75
			Sales Tax	145.50

Authorization by Judd Gulick Title Tool Pusher Total 3,529.35

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

PLOTTED GEOLOGICAL LOG

WellSight Systems

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

Well Name: SPRAGUE #1

Location: 1310' FSL & 1395' FEL of Sec. 35-T25S-R3E

Licence Number: API # 15-015-24136-00-00

Region: Butler County, Kansas

Spud Date: 10/29/2019

Drilling Completed: 11/1/2019

Surface Coordinates: Lat: 37.82882, Long: -97.06540 (NAD83)

Bottom Hole Vertical Well

Coordinates:

Ground Elevation (ft): 1304'

K.B. Elevation (ft): 1313'

Logged Interval (ft): 1650' To: 2831'

Total Depth (ft): 2831'

Formation: Mississipi

Type of Drilling Fluid: Chemical Mud by Fud-Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: AGV Corp.

Address: P.O. Box 377
Attica, KS 67009

GEOLOGIST

Name: Kent Roberts

Company: Roberts Resources, Inc.

Address: P.O. Box 75187
Wichita, KS 67275
Cell 316-215-1683

BIT INFORMATION

#1 - 12-1/4 Atlas 6160 Cut 269' in 2-1/2 Hrs

#2 - 7-7/8 Security S165 PDC, Out at 580, Cut 311' in 7-3/4 hrs.
Pulled Early, Would not drill

#3 - 7-7/8 Atlas 516 PDC, RR Out at 2831, Cut 2251'

INFORMATION

DRILLING CONTRACTOR: C&G Drilling Co., Rig #2

MUD TYPE: Chemical by Fud-Mud

DRILLING TIME KEPT FROM: 400' to RTD

SAMPLES SAVED FROM: 2200' to RTD

SAMPLES EXAMINED FROM: 2200' to RTD

GEOLOGICAL SUPERVISION FROM: 2200' to RTD

ELECTRICAL SURVEYS: CDL/CNL, DIL, MEL, Sonic by ELI

DAILY ACTIVITY @ 0700 HRS

10/28/2019

C&G Dozer leveling location and digging working pits and reserve pit. MIRT & start Rig Up. Filed Intent to Drill w/ KCC. Wait on approval

10/29/2019

Spud well @ 1:30 PM, drill 12-1/4" hole to 269'. Ran 6 jts New 8-5/8" tally 254' set @ 265' KB. Cemented with 135 sacks cement (2% gel 3% CC) Plug Down 8:50 PM. Cement did circulate. WOC.

10/30/2019

Depth 328', Drilling. Drill out under surface @ 5:00 AM. Depth 580', Bit trip. 3:45 PM, Dev. 1/4 degree. Security S165 PDC not drilling at good rate. Ran 7-7/8" Atlas 516 PDC, Back Drilling @ 4:30 PM

10/31/2019

Depth 1780', Drilling

11/1/2019

Depth 2734'. On bottom w/ DST #1, Opened tool at 7:00 AM. Deviation 3/4 degree

11/2/19

Depth 2831' RTD. Plug and Abandon

CASING DATA

CONDUCTOR CASING: None

SURFACE CASING: 8-5/8" set @ 265' w/ 135 sacks

PRODUCTION : None

COMMENTS

The Mississippi Chert section was encountered at a datum that has been oil productive on this lease. Although the chert was at a favorable datum, drill stem test results indicate the zone to be water bearing at this location.

Based on sample analysis, DST results and E-Log measurements it was recommended the Sprague #1 be plugged and abandoned as a dry hole.

Samples were deposited with Kansas Geological Survey per request.

Respectfully,

Kent Roberts

WELL NAME: Sprague 1

ELEV. G.L.= 1304

K.B.= 1313

FORMATION TOPS	Sample		E- Log	
HEEBNER SHALE	1680	-367	1680	-367
LANSING	1948	-635	1948	-635
BASE LANSING	2097	-784	2100	-787
KANSAS CITY	2252	-939	2251	-938
BASE KANSAS CITY	2411	-1098	2412	-1099
MISSISSIPPI	2725	-1412	2724	-1411
MISS. OSAGE	2765	-1452	2757	-1444
HUNTON	NOT PENETRATED			
VIOLA	NOT PENETRATED			
SIMPSON SAND	NOT PENETRATED			
ARBUCKLE	NOT PENETRATED			
TOTAL DEPTH	2831	-1518	2832	-1519



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

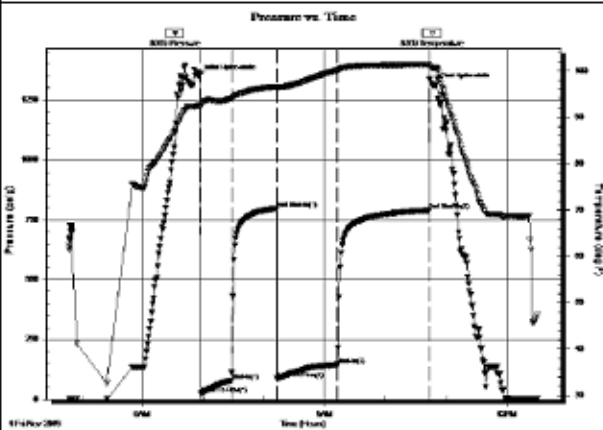
AGV Corporation
PO Box 377
Attica, KS 67009-0377
ATTN: Kent Roberts

35-25S-3E Butler,KS
Sprague #1
Job Ticket: 65412 DST#: 1
Test Start: 2019.11.01 @ 04:48:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 06:57:50
Time Test Ended: 12:30:39
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Jimmy Ricketts**
Unit No: **80**
Interval: **2694.00 ft (KB) To 2734.00 ft (KB) (TVD)**
Reference Elevations: **1313.00 ft (KB)**
Total Depth: **2734.00 ft (KB) (TVD)** **1304.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **9.00 ft**

Serial #: 8369 **Outside**
Press@RunDepth: **145.95 psig @ 2695.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2019.11.01** End Date: **2019.11.01** Last Calib.: **2019.11.01**
Start Time: **04:48:01** End Time: **12:30:40** Time On Btm: **2019.11.01 @ 06:56:00**
Time Off Btm: **2019.11.01 @ 10:48:39**
TIMES: 30-45-60-90
TEST COMMENT: IF - Weak blow building to 7"
FF - Weak blow building to 8"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1345.57	92.53	Initial Hydro-static
2	24.02	92.31	Open To Flow (1)
32	79.37	94.11	Shut-in(1)
77	797.52	96.62	End Shut-in(1)
78	86.92	96.38	Open To Flow (2)
137	145.95	100.16	Shut-in(2)
228	788.82	101.40	End Shut-in(2)
233	1311.06	100.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW w/ Tr O 85%W & 15%M	0.89
120.00	WM w/ Tr O 2%W & 98%M	1.09
Recovery Chlorides = 17,000 ppm		
from Rw 0.452@ 63.3 Deg F		

Gas Rates

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

TriLOBITE Testing, Inc

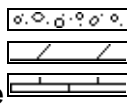
Ref. No: 65412

Printed: 2019.11.01 @ 14:06:51

ROCK TYPES



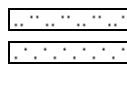
Anhy
Cht
Black shale



Congl
Dolomite
Limestone

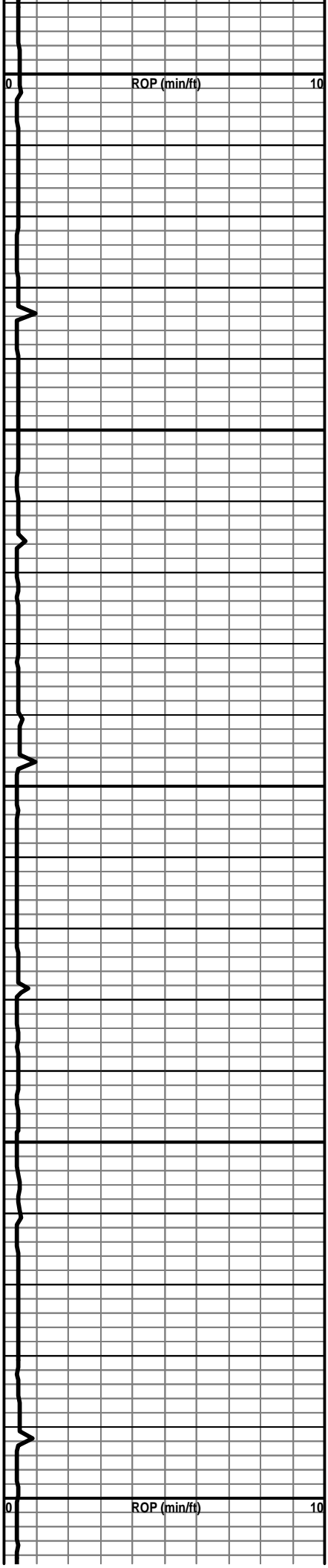


Salt
Shale
Cherty dol.



Siltstone
Sandstone

Curve Track 1 ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks TOTAL GAS (Units)
	<p>400</p> <p>450</p> <p>500</p> <p>550</p>			<p>0</p> <p>75</p> <p>Pason Drill Time from 400' to RTD</p> <p>Pason Gas Detection 475' to RTD</p> <p>Bit Trip @ 580' Deviation 1/4"</p>



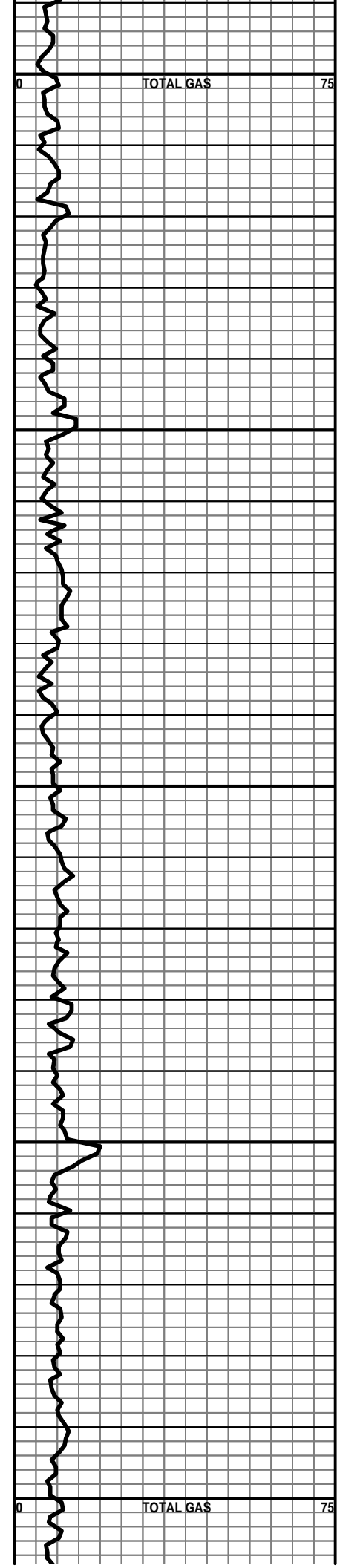
600

650

700

750

800



TOTAL GAS

0 75

600

650

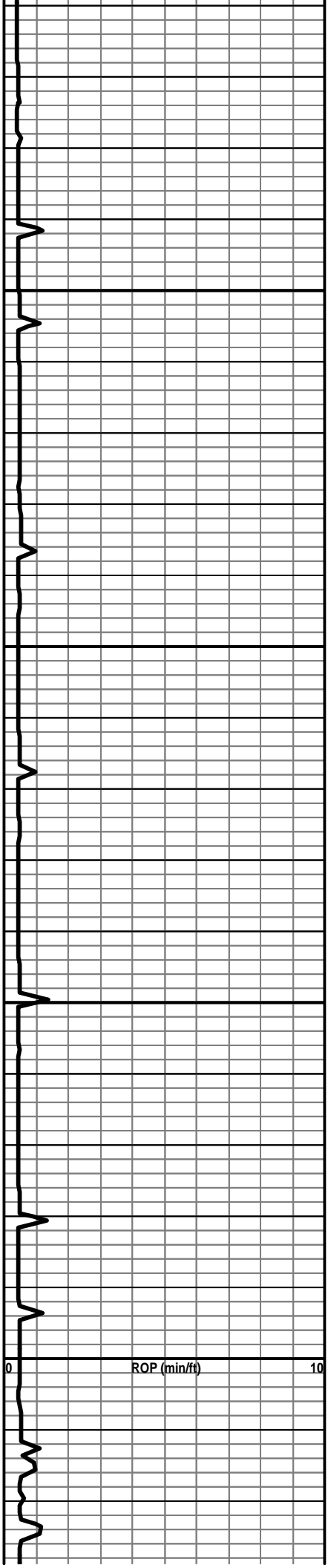
700

750

800

0 75

TOTAL GAS



850

900

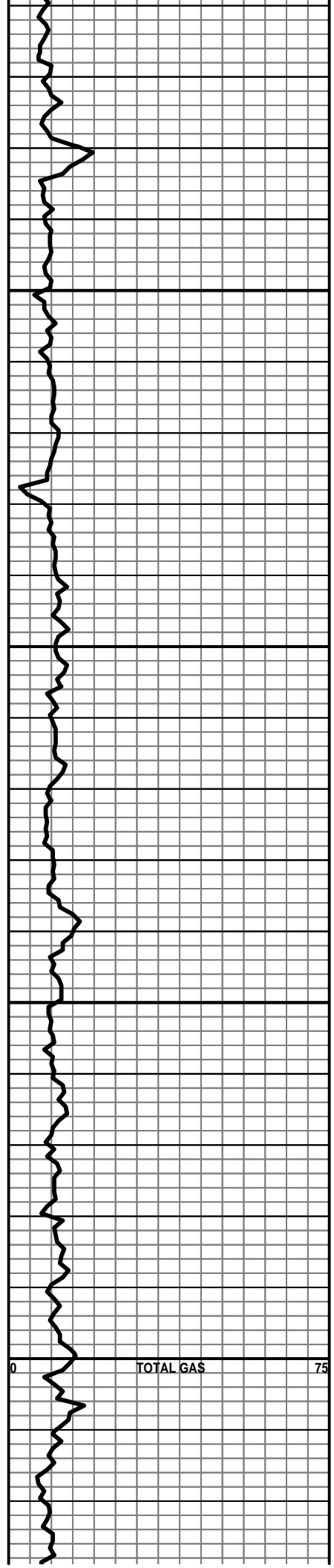
950

1000

ROP (min/ft)

0

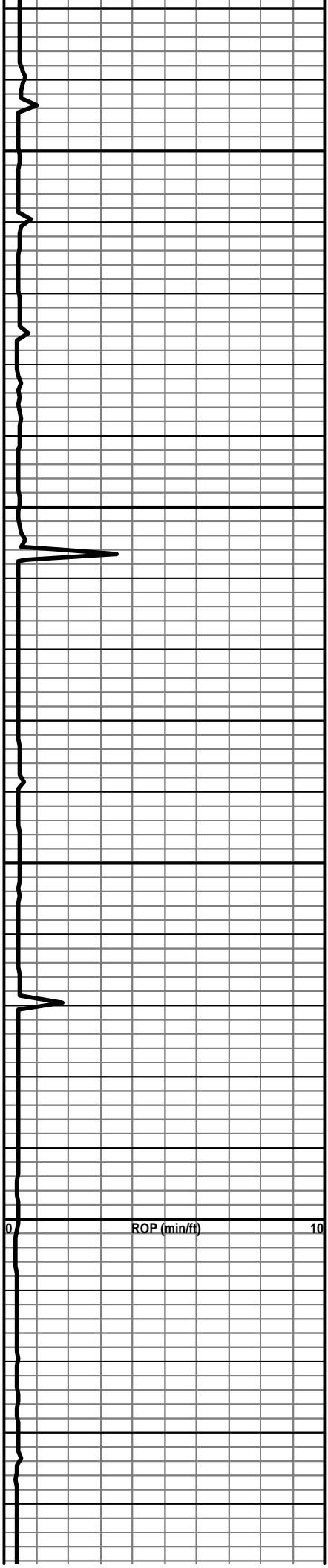
10



TOTAL GAS

0

75

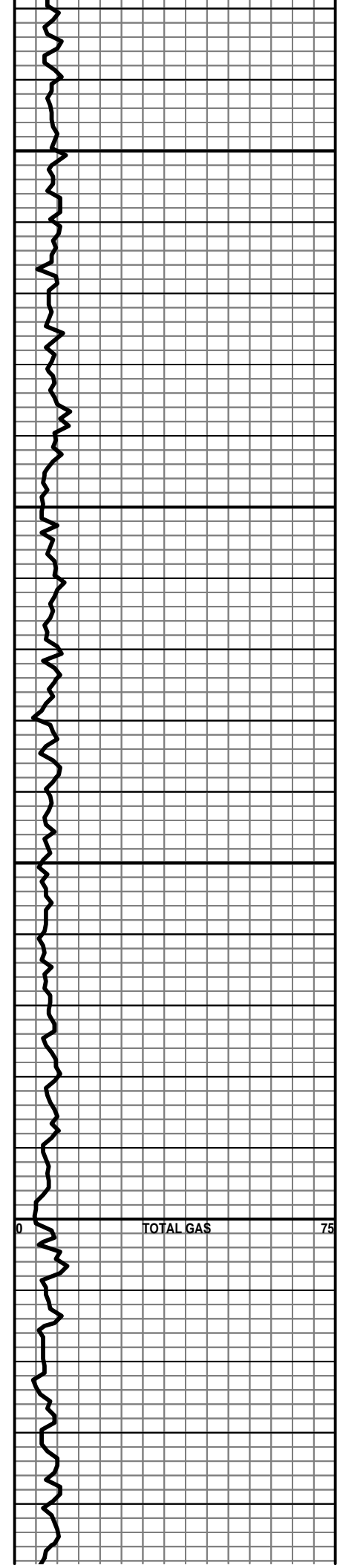


1050

1100

1150

1200



0

TOTAL GAS

75

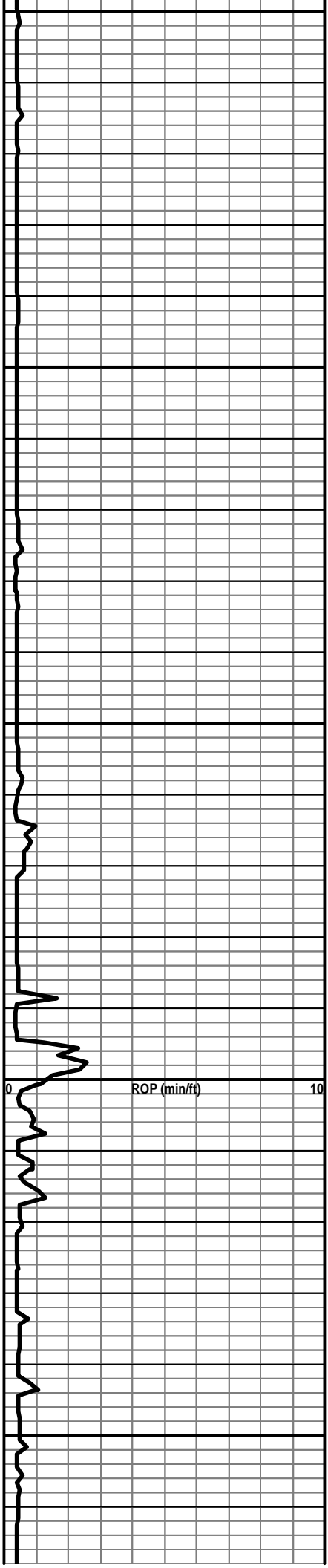
1250

1300

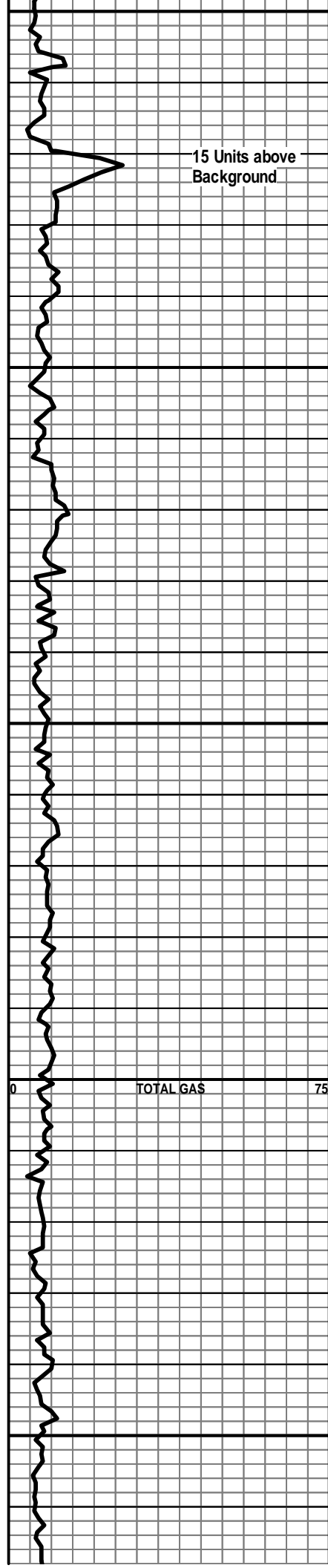
1350

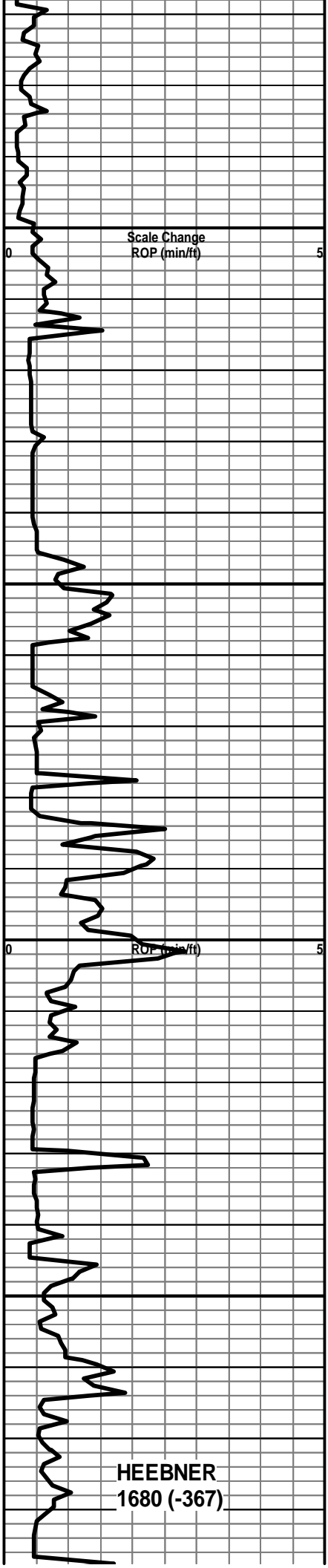
1400

1450



15 Units above
Background





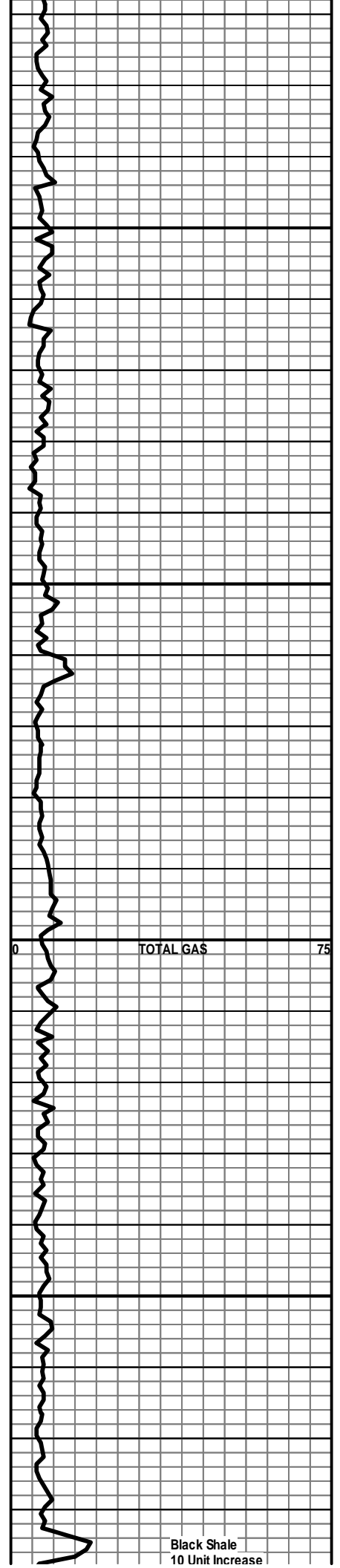
1500

1550

1600

1650

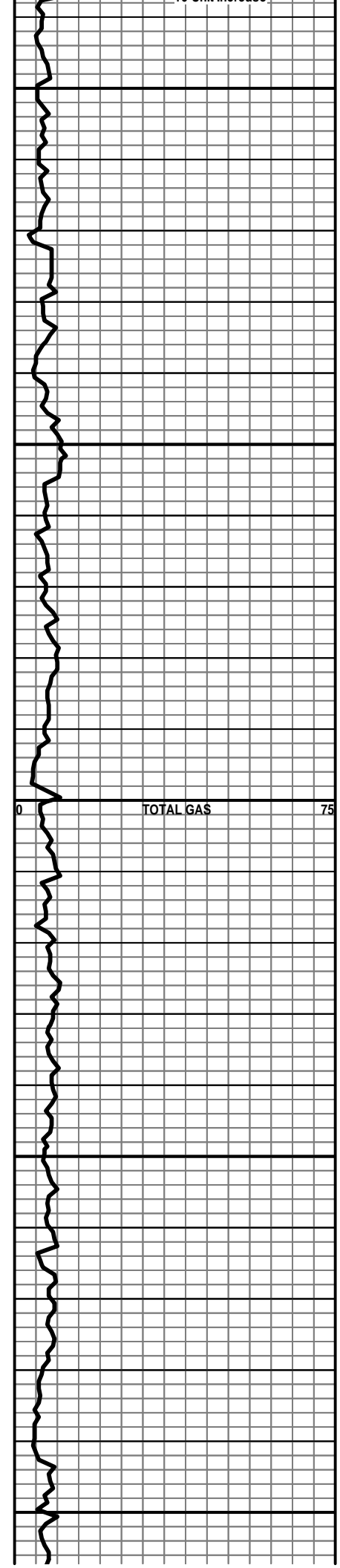
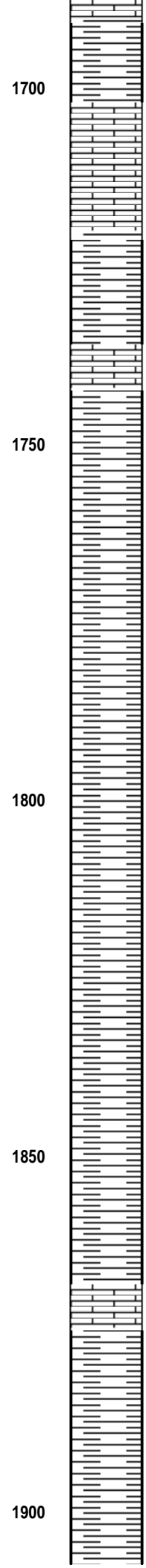
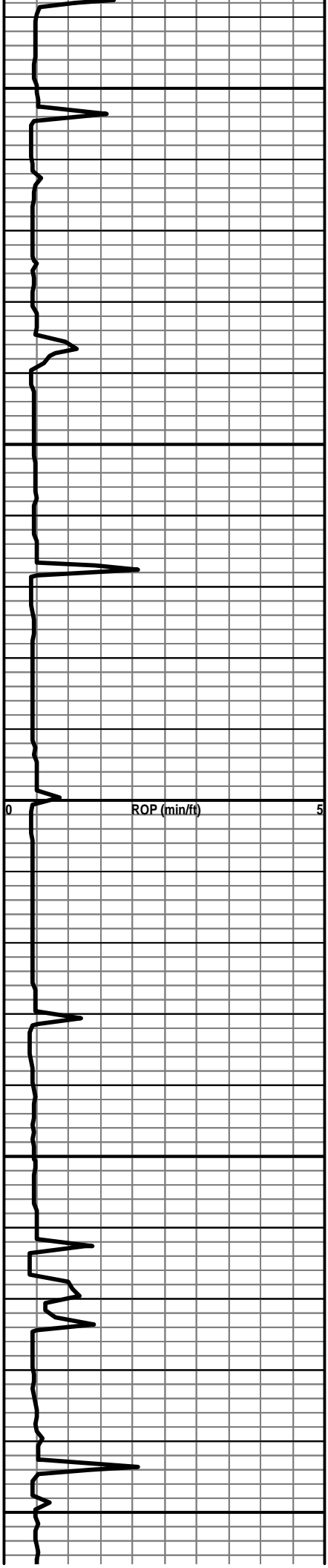
HEEBNER
1680 (-367)

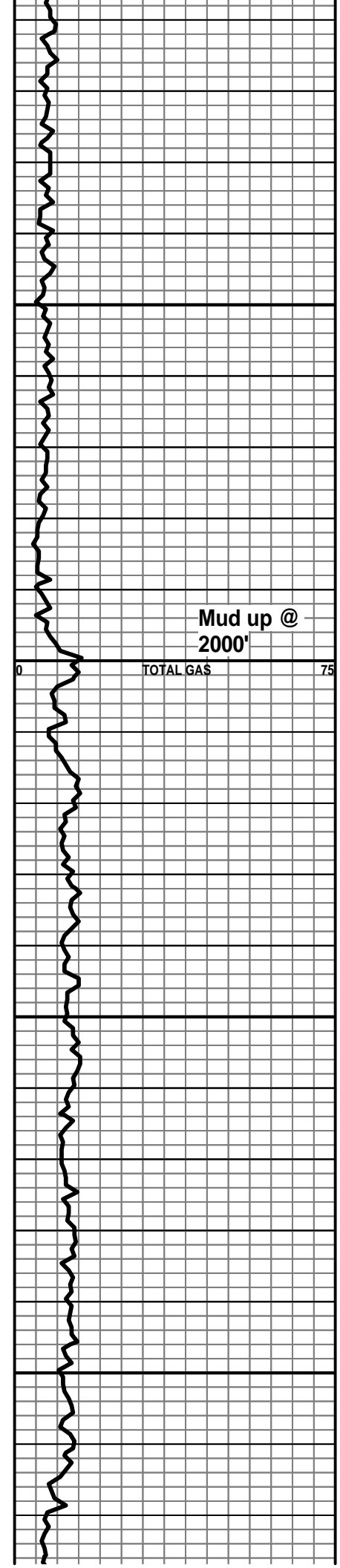
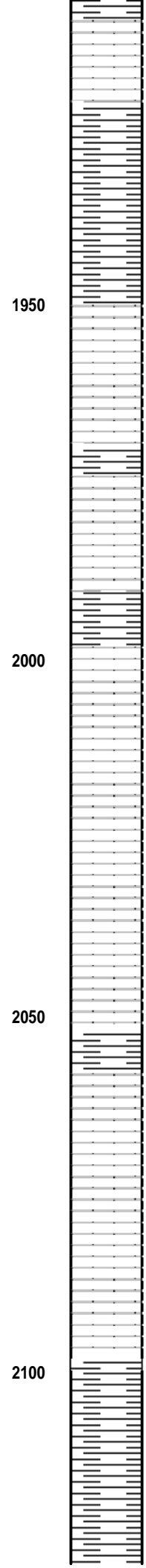
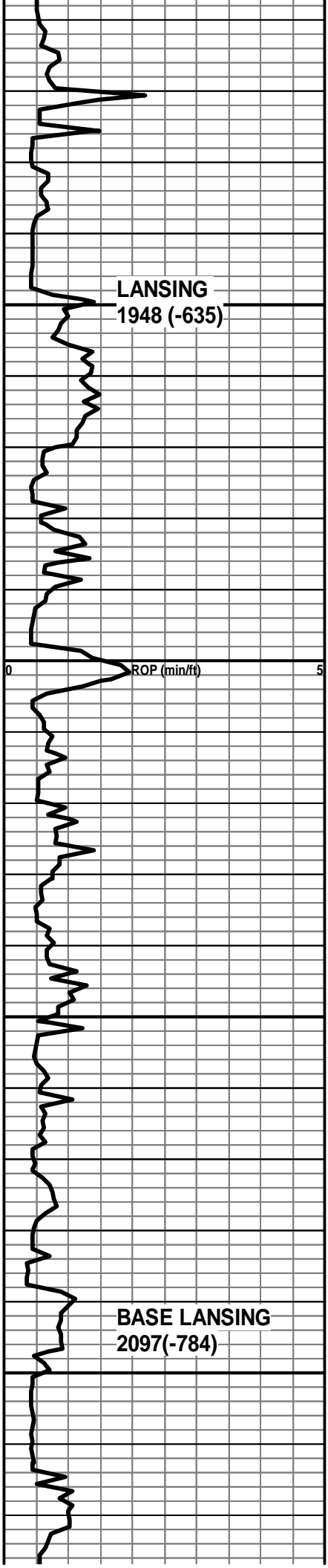


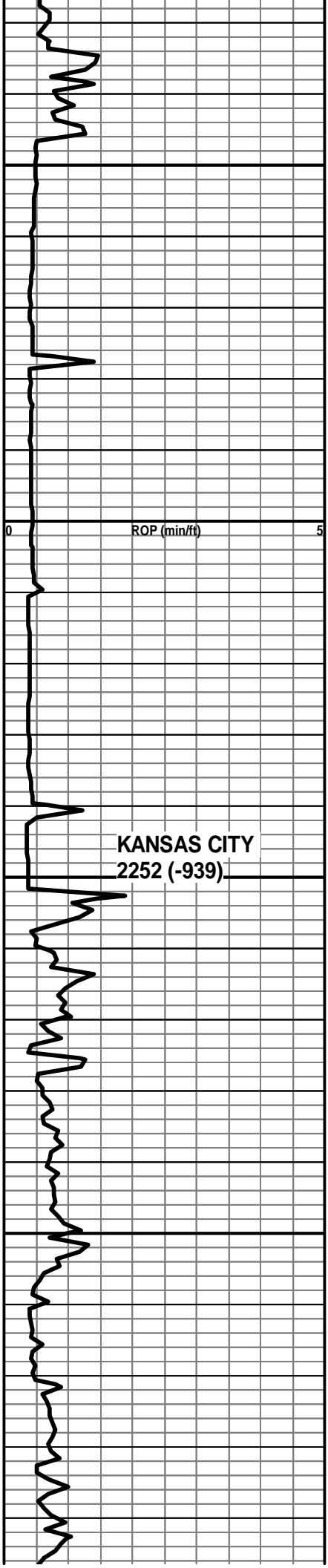
TOTAL GAS

75

Black Shale
10 Unit Increase





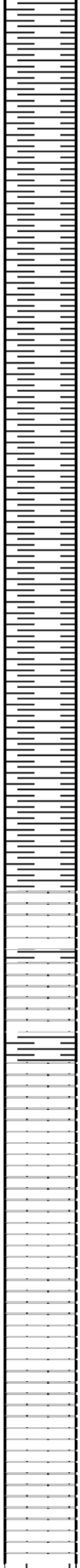


2150

2200

2250

2300



Sh, gry, lt-gry, silty, soft

Sh, gry, dk-gry, silty

Sh, as above with trace crm, tan dense Ls

Ls, crm, tan, brn, fxln, dense, cherty i/p w/ Sh, gry

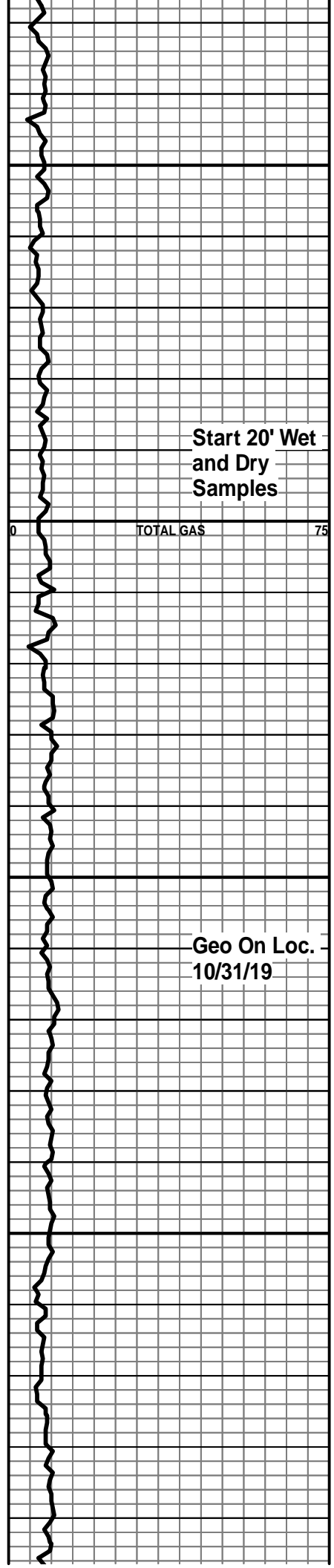
Sh, gry, grn

Ls, crm, buff fxln, foss, fr xln porosity, Abn soft wht chalk. No show, stain, fluor or odor

Ls, crm, buff, wht, fxln

Sh, gry, dk-gry, grn, mrn

Ls, crm, lt-gry, fxln, foss i/p pr-fr xln and pr vuggy porosity, No stain or show, No fluor. No odor



Start 20' Wet and Dry Samples

TOTAL GAS

75

Geo On Loc. 10/31/19

2350

Ls, As above w/Abn Ls, crm-wht, fxln, trace wht chert, Scat Sh, gry, Black carb.

Black Shale
18 Unit Increase

Ls, crm, buff, gry, fxln, foss i/p, chalky, cherty i/p pr xln porosity, No stain or show, No fluor, No odor.

Sh, Black Carb

Black Shale
25 Unit Increase

2400

Ls, brn, fxln, dense, crm, f-mxln, fr xln porosity, Wht soft chalk, No show

TOTAL GAS

ROP (min/ft)

BASE / KC
2411 (-1098)

Sh, gry, lt-dk gry, silty to soft gumbo

Sh, gry, silty

2450

Sh, gry, dk-gry silty

Sh, gry, dk-gry silty

Ls, brn, tan, gry, fxln, dense

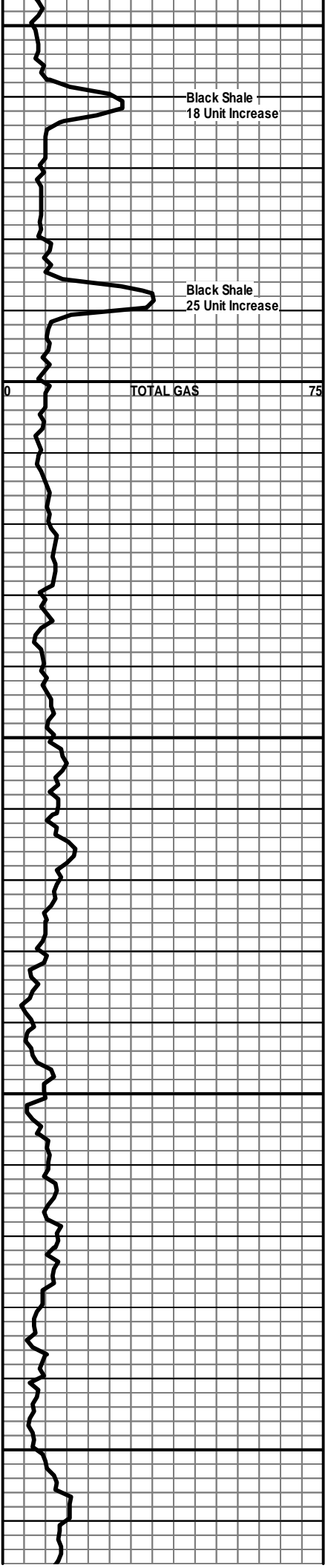
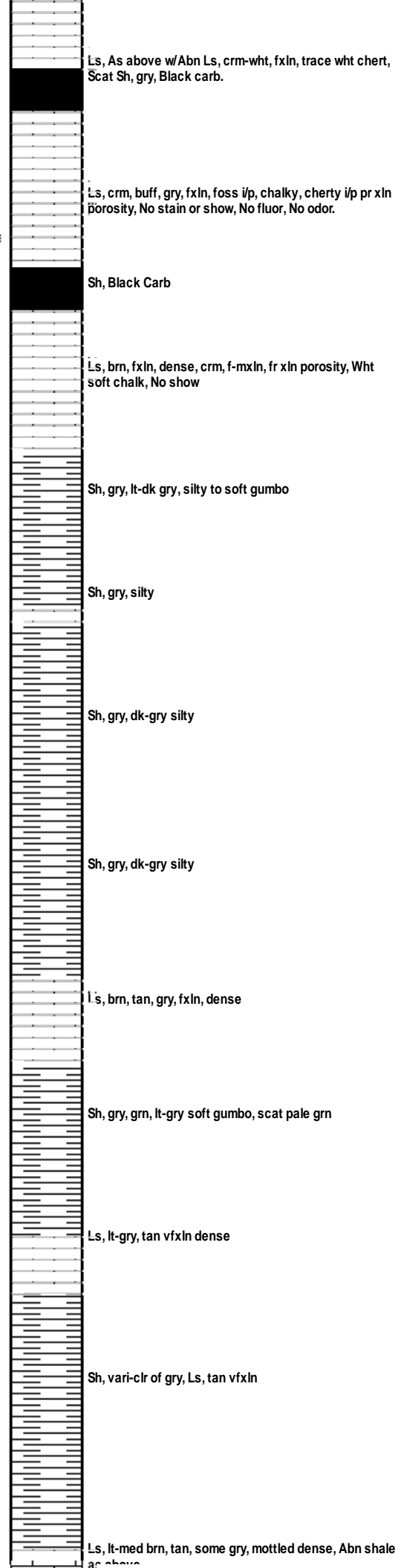
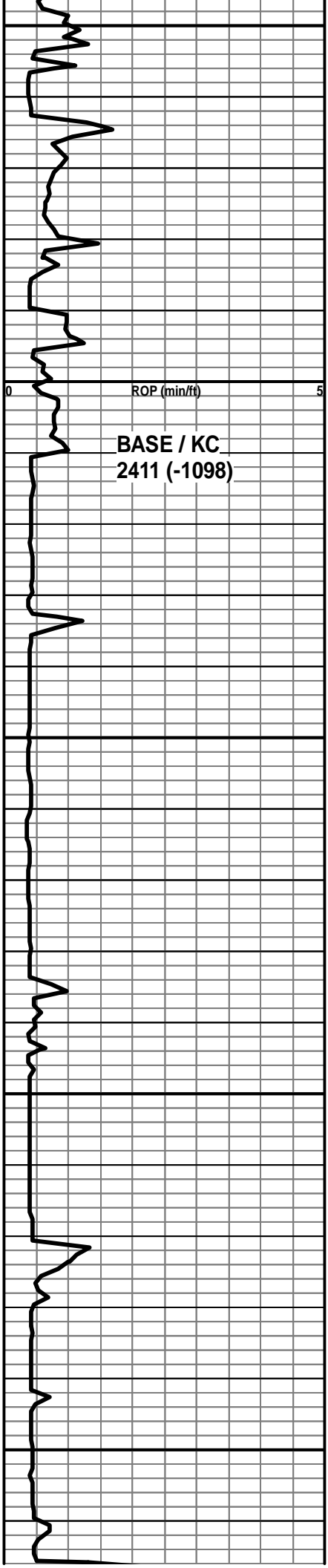
2500

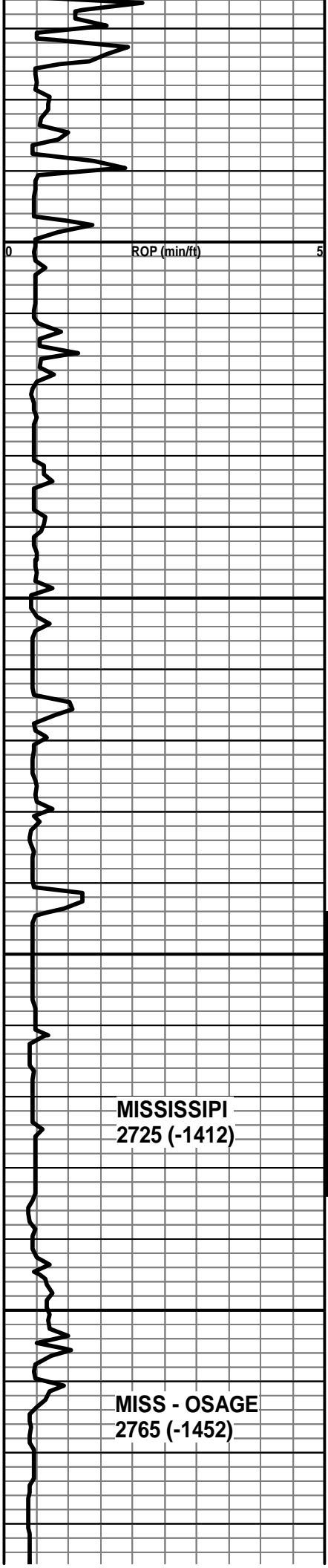
Sh, gry, grn, lt-gry soft gumbo, scat pale grn

Ls, lt-gry, tan vfxln dense

2550

Ls, lt-med brn, tan, some gry, mottled dense, Abn shale as above





2600

2650

2700

2724'

2734'

2748'

2750'

2760'

2768'

**MISSISSIPPI
2725 (-1412)**

**MISS - OSAGE
2765 (-1452)**

DST #1

as above
Ls, lt-med brn, tan, some gry, mottled dense, Abn shale as above

Ls, lt-med brn, tan, some gry, mottled dense, Flood of Black Carb Shale. Scat Wht soft chalk w/ dull fluor, Very faint odor, No stain, no show

Ls, tan, brn, dense, cherty, scat crm-tan foss, scat soft crm chalky

Ls, crm, lt gry, foss, Abn, sh, gry, trace Black Carb.

Sh, Black Carb, w/ gry, soft gumbo

Ls, gry, tan, brn, foss, dense, sh, gry, black carb.

Ls, gry, tan, foss, dense, trace grn sh w/ clr f-m grn clr sand inclusions, some lt-grn siltstone

Ls, gry, tan, foss, dense, Abn grn sh w/ grn-clr f-m grn shaley sand, some lt-grn siltstone. Trace gry, purple shale, No show

20" CFS - 2724 Flood of vari-clr shale, 2-3 pcs of gry, blocky chert

40" CFS 2724 Vari-clr sh. 3 pcs off-wht blocky chert w/ dull fluor. 1 pc has fr weathered - tripolitic porosity w/ trace dead black stain, No show free oil, very weak odor.

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20" CFS - 2734 Flood of Chert wht, blocky w/ scat pcs fr tripolitic porosity, Lt stain, trace black dead. Bright fluor in porosity & on fracture face. Few pcs bleeding nr-fr show free oil, fair odor

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40" CFS - 2734 Scat tripolitic chert as above w/ slight show free oil, 1 pc bleeding fr-gd show free oil, patchy fluor, ? very faint odor, mostly wht, off-wht dolomitic LS, chalky

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▲▲▲▲▲

20 & 40" CFS - 2748 Dolomitic Ls, wht, off-wht, vfxln, soft, very chalky. Dull mineral fluor, No show

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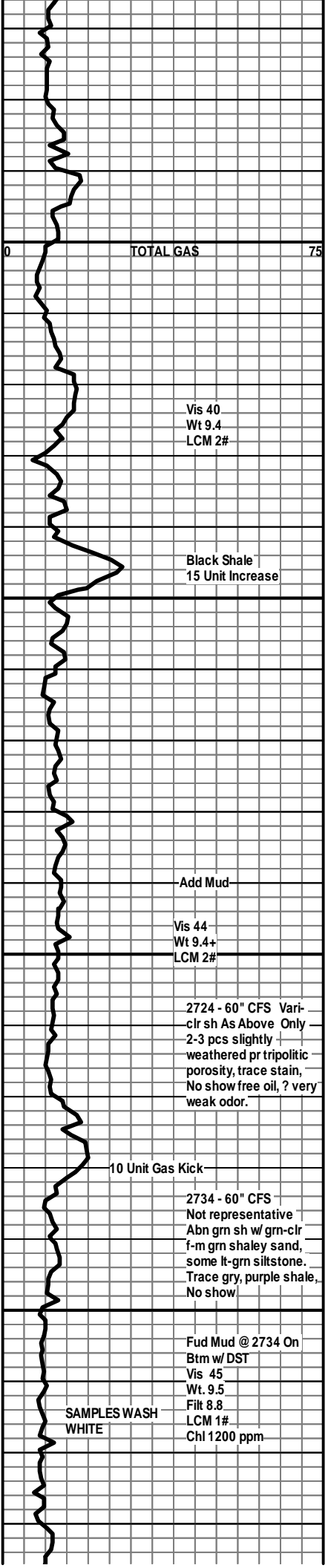
20 & 40" CFS - 2760. Ls, lt-gry, pale grn, vfxln dense, trace of wht slightly weathered chert, trace opq, No show

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▲▲▲▲▲

Flood of Chert, Wht, some opq, sharp, most is weathered, tripolitic. No stain, No show oil, No fluor or odor.

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Chert, Wht, weathered, tripolitic, Dol, Wht, vfxln, Abn soft wht chalk



0 75

Vis 40
Wt 9.4
LCM 2#

Black Shale
15 Unit Increase

Add Mud

Vis 44
Wt 9.4+
LCM 2#

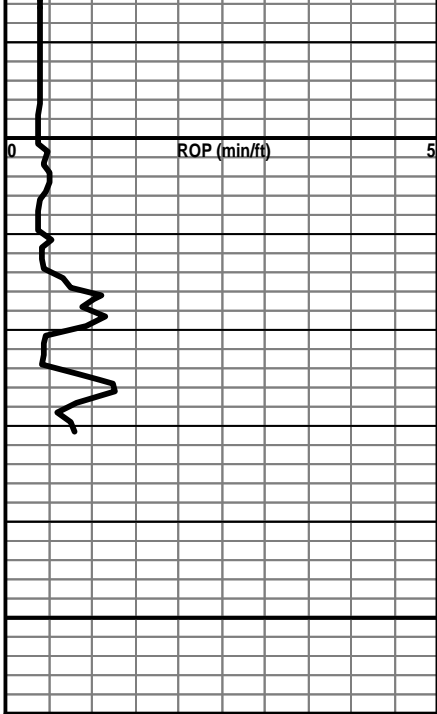
2724 - 60" CFS Vari-clr sh As Above Only
2-3 pcs slightly weathered pr tripolitic porosity, trace stain, No show free oil, ? very weak odor.

10 Unit Gas Kick

2734 - 60" CFS
Not representative
Abn grn sh w/ grn-clr f-m grn shaley sand, some lt-grn siltstone. Trace gry, purple shale, No show

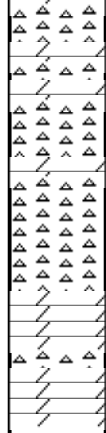
Fud Mud @ 2734 On
Btm w/ DST
Vis 45
Wt. 9.5
Filt 8.8
LCM 1#
Chl 1200 ppm

SAMPLES WASH
WHITE



2800

2850



Cht, Wht, weathered, tripolitic, Dol, Wht, vfxln, Abn soft
wht chalk

Scat cht, wht, opq, weathered to sharp, Dol, crm, buff vf
sucrosic, soft. Very chalky

**RTD 2831' @ 6:55 PM on
11/1/19**

