Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1240156

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5046
Name: Raymond Oil Company, Inc.
Address 1: PO BOX 48788
Address 2:
City: WICHITA State: KS Zip: 67201 + 8788
Contact Person: Clark Sandberg
Phone: (316) 267-4214
CONTRACTOR: License # 6039
Name: L. D. Drilling, Inc.
Wellsite Geologist: Kim Shoemaker
Purchaser:

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

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

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

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

1/6/2015	1/16/2015	1/16/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-101-22514-00-00
Spot Description:
SW NW SW SW Sec. 23 Twp. 18 S. R. 27 ☐ East ☑ West
958 Feet from ☐ North / ☑ South Line of Section
138 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: Lane
Lease Name: MRLI Unit Well #: 1
Field Name:
Producing Formation: N/A
Elevation: Ground: 2629 Kelly Bushing: 2634
Total Vertical Depth: 4643 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 260 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: 2400 ppm Fluid volume: 500 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: 01/22/2015
☑ **Confidential Release Date:** 01/21/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 01/22/2015

1240156

Operator Name: Raymond Oil Company, Inc. Lease Name: MRLI Unit Well #: 1

Sec. 23 Twp. 18 S. R. 27 ☐ East ☑ West County: Lane

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Micro
Dil
Comp N/D

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

Name	Top	Datum
B/Anhy	2021	+613
Lans	3932	-1298
Hush Sh	4238	-1604
Cher Sh	4474	-1840
Miss	4552	-1918
Total Depth	4643	

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	24	260	Class A	190	3% cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(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:
_____
_____

Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	MRLI Unit 1
Doc ID	1240156

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	24	260	Class A	190	3% cc, 2% gel

6:30A

1M26

1673

10A

CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 47890
LOCATION Oakley KS
FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE #802938

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-7-15	4158	MRLI Unit #1	23	18S	27w	Lane

KS

CUSTOMER: Raymond Oil

MAILING ADDRESS:

CITY: | STATE: | ZIP CODE:

Alamota E 1mile 3/4S E into

TRUCK #	DRIVER	TRUCK #	DRIVER
731	Jeremy R		
693	Cory D		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 263 CASING SIZE & WEIGHT 8 5/8 24#

CASING DEPTH 260 DRILL PIPE ___ TUBING ___ OTHER ___

SLURRY WEIGHT 14.8 SLURRY VOL 1.24 WATER gal/sk ___ CEMENT LEFT in CASING 20'

DISPLACEMENT 15 1/4 bbl DISPLACEMENT PSI ___ MIX PSI ___ RATE ___

REMARKS: Safty meeting rig up on LD break circulation with rig tree hookup to truck & mix 190 sks com 3% CC 2% gel wash up & displace with 15 1/4 & shut in. Circulated approx 5bbl to pit

Cement did Circulate

Thank you
Jerry & Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	1150.00	1150.00
5406	25	MILEAGE	5.25	131.25
5407	8.93	ton mileage delivery (min)	430.00	430.00
11045	190sks	com class A cement	18.56	3526.40
1102	536#	CC	.94	503.84
1118b	357#	gel	.27	96.39
1111	100#	Salt	N/C	N/C
			S	
			subtotal	5837.88
			less 15% disc	875.68
			subtotal	4962.19
			SALES TAX	250.80
			ESTIMATED TOTAL	5212.99

Ravin 3737

AUTHORIZTION ___ TITLE ___ DATE ___

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

3P

1818
1765

c.sol-

CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER
LOCATION Oakley Ks
FOREMAN Jerry

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE#803054

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-16-15	7158	MRLI Unit #1	23	18s	27w	KS Lane

CUSTOMER: Raymond Oil

MAILING ADDRESS

CITY | STATE | ZIP CODE

Alamota E 1 mile S 3/4 E into

TRUCK #	DRIVER	TRUCK #	DRIVER
731	~~[illegible]~~ Coby D		
693	Rob		
assist	Keith		

JOB TYPE Plug HOLE SIZE 7 7/8 HOLE DEPTH 4570 CASING SIZE & WEIGHT
CASING DEPTH 0 DRILL PIPE 4 1/2 TUBING OTHER
SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk CEMENT LEFT in CASING
DISPLACEMENT DISPLACEMENT PSI MIX PSI RATE

REMARKS: safty meeting rig up on LD plug as ordered with 280 sks 60/40 poz 4% gel 1/4# floseal p SK
50 sks @ 2040'
80 sks @ 1260'
50 sks @ 630'
50 sks @ 350'
20 sks @ 60'
30 sks Rathole

Thank you
Jerry & crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1395.00	1395.00
5406	25	MILEAGE	5.25	131.25
5407	12.04	ton mileage delivery	1.75	526.75
1131	280 sks	60/40 pozmix	15.86	4440.80
1118B	963 #	gel	.27	260.01
1107	70 #	floseal	2.97	207.90
1111	100 #	salt	NC	NC
			subtotal	6961.71
			less 15% disc.	1044.26
			subtotal	5917.46
			SALES TAX	298.32
			ESTIMATED TOTAL	6215.78

Ravin 3737

AUTHORIZTION [signature] TITLE DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Raymond Oil Company, Inc.

LEASE #1 MRLI Unit

FIELD Wildcat

LOCATION 958' FSL & 138' FWL

SEC 23 TWSP 18s RGE 27W

COUNTY Lane STATE Kansas

CONTRACTOR L. D. Drilling, Inc.

SPUD 1-6-15 COMP 1-16-15

RTD 4640 LTD 4643

MUD UP 3542 TYPE MUD Chemical

ELEVATIONS

KB 2634

DF

GL 2629

Measurements Are All From 2634 KB

CASING

SURFACE 8 5/8" @ 260'

PRODUCTION

ELECTRICAL SURVEYS

Dual Ind., Dens-N., Micro

SAMPLES SAVED FROM 3400 TO 4640

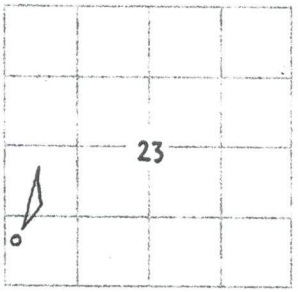
DRILLING TIME KEPT FROM 3400 TO 4640

SAMPLES EXAMINED FROM 3400 TO 4640

GEOLOGICAL SUPERVISION FROM 3500 TO 4640

GEOLOGIST ON WELL Kim B. Shoemaker

FORMATION TOPS	LOG	SAMPLES
Anhydrite	1991 + 643	2002 + 632
B/Anh.	2021 + 613	2026 + 608
Stotler	3462 - 828	3462 - 828
Heebner	3894 - 1260	3895 - 1261
Lansing	3933 - 1299	3931 - 1297
Hush Puckney	4237 - 1603	4237 - 1603
Marmaton	4302 - 1668	4307 - 1673
Fort Scott	4450 - 1816	4450 - 1816
Cherokee	4474 - 1840	4475 - 1841
Mississippi	4560 - 1926	4550 - 1916



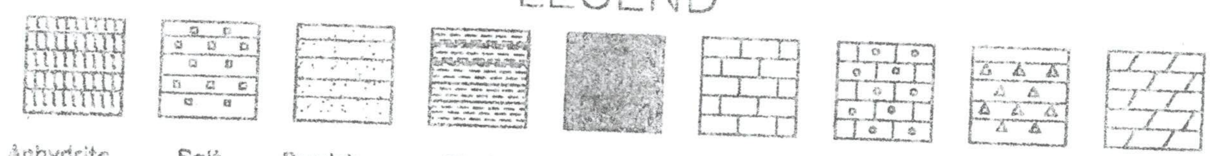
REMARKS

1-6-15 SPUD
1-7 @ 263'
1-8 @ Down
1-9 @ "
1-10 @ 1509'
1-11 @ 2526'
1-12 @ 3100'
1-13 @ 3630'
1-14 @ 4150'
1-15 @ 4564'
1-16 @ 4690'

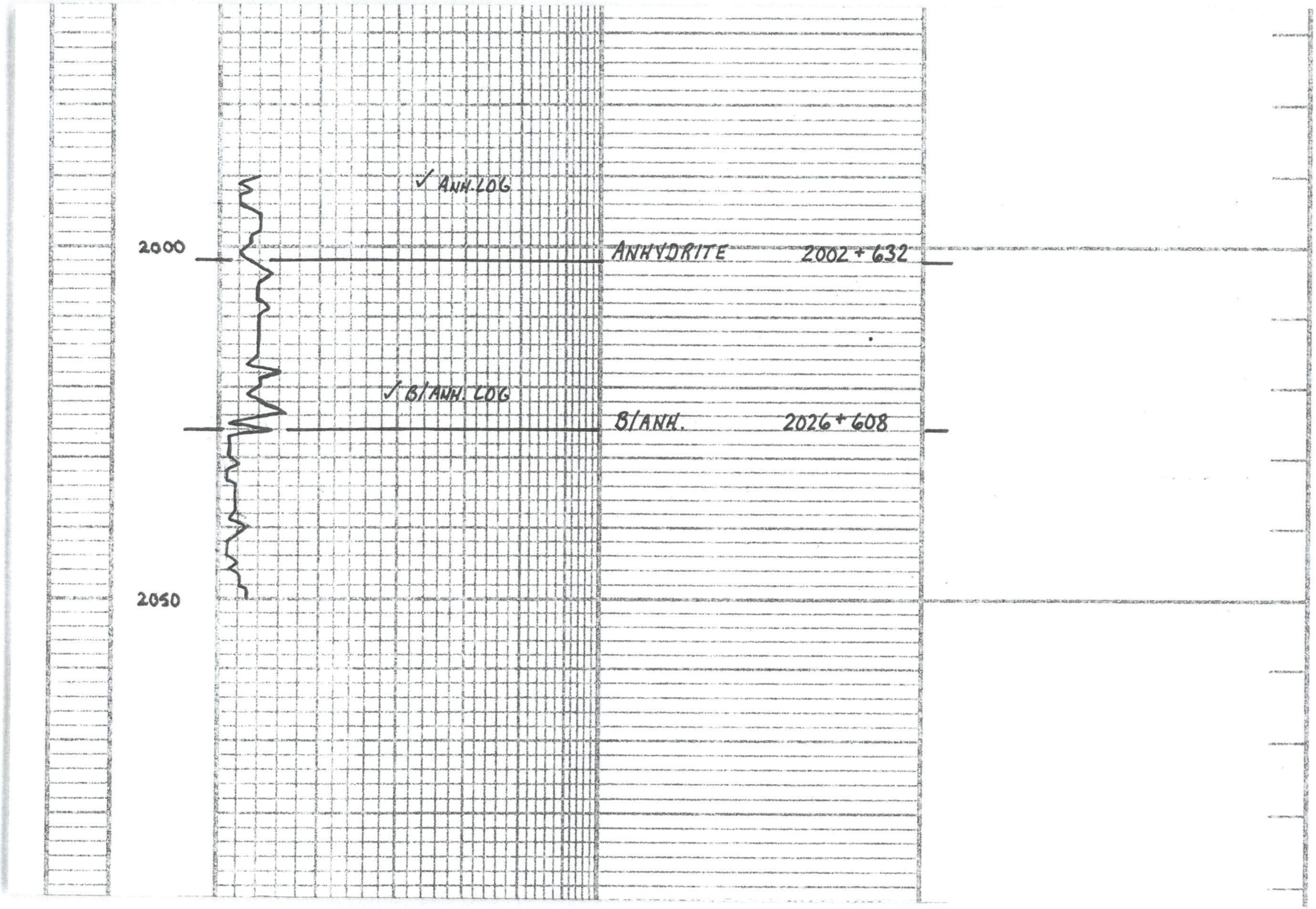
API: 15-101-22514

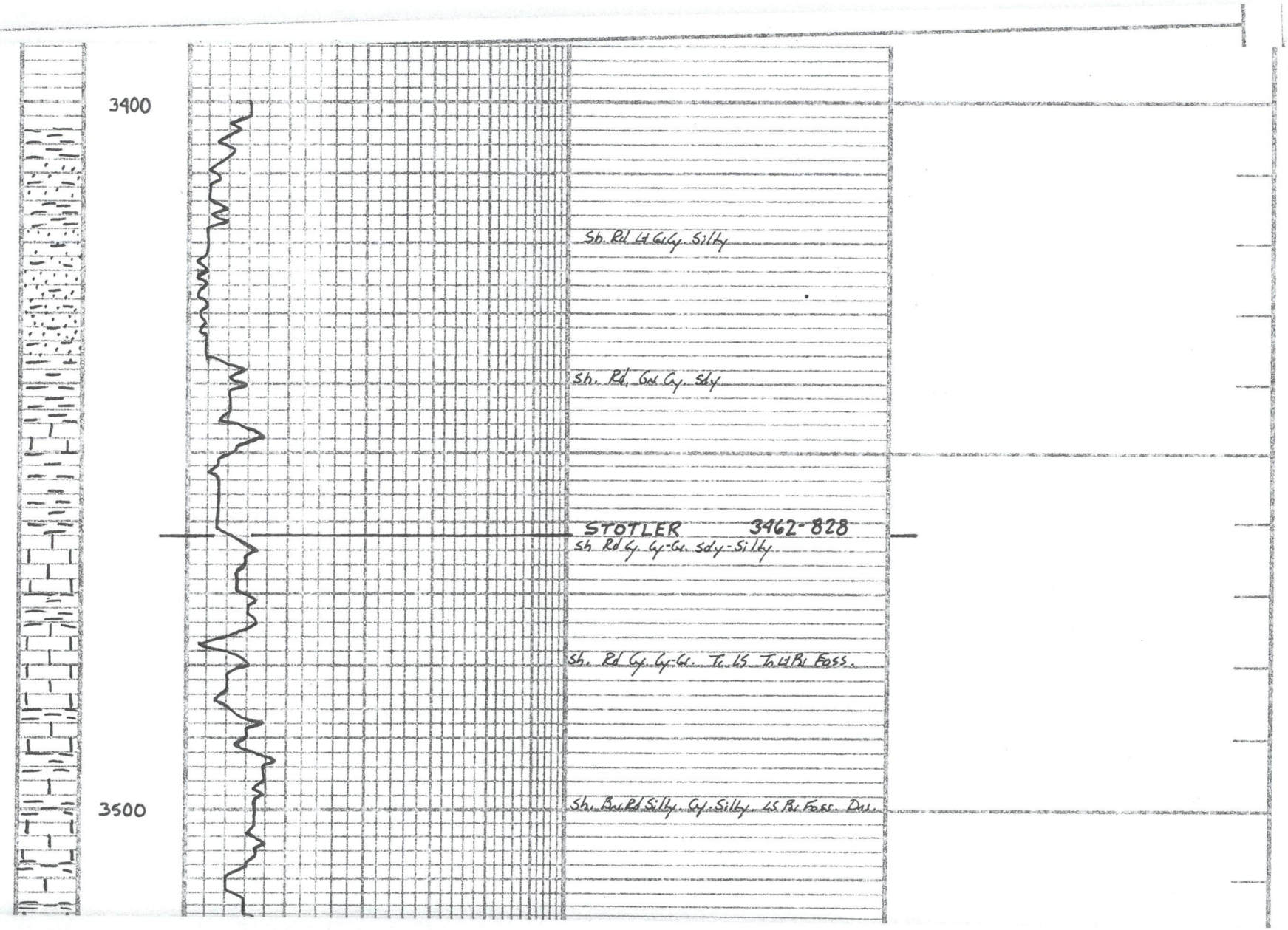
SHOE01-11

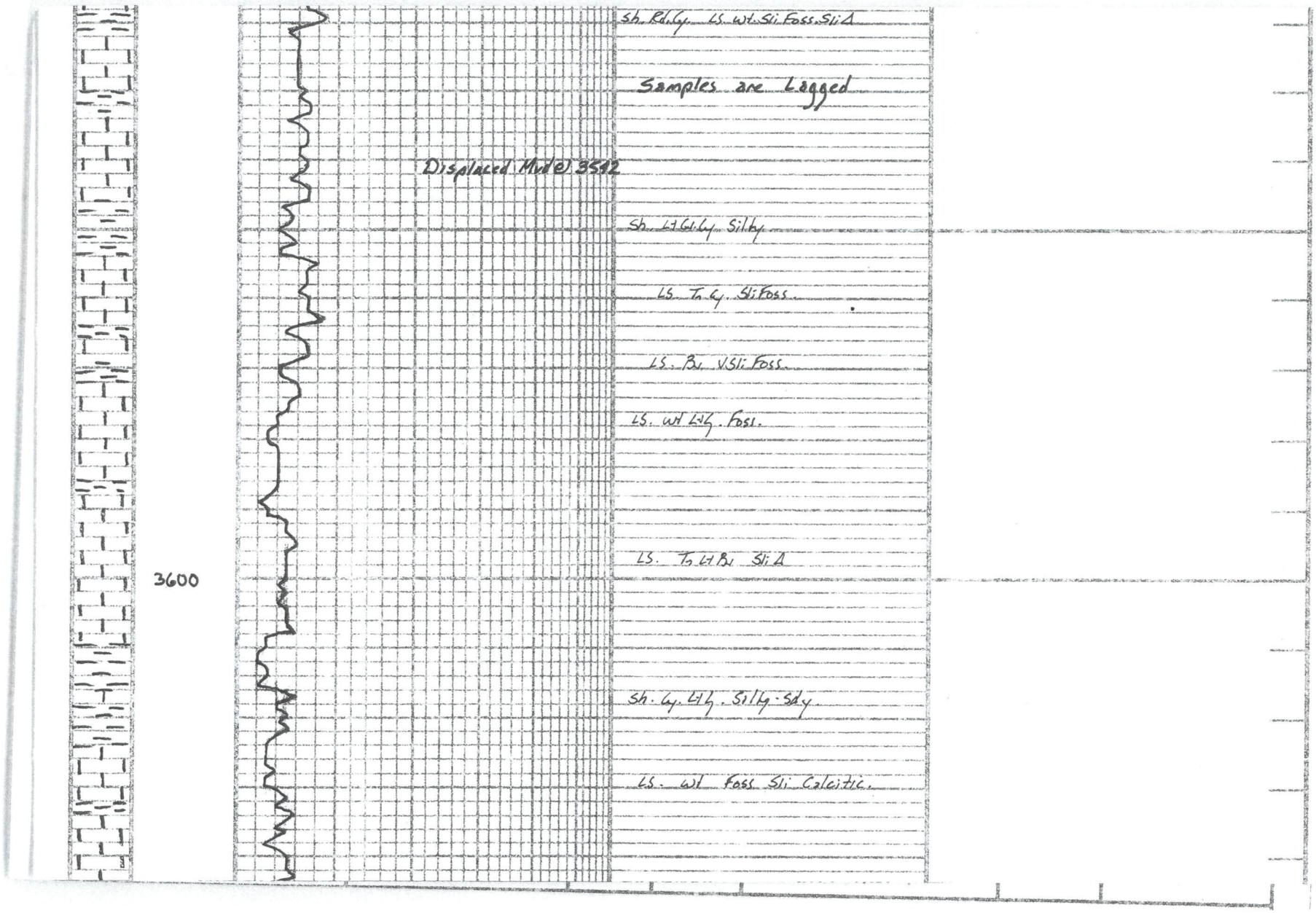
LEGEND

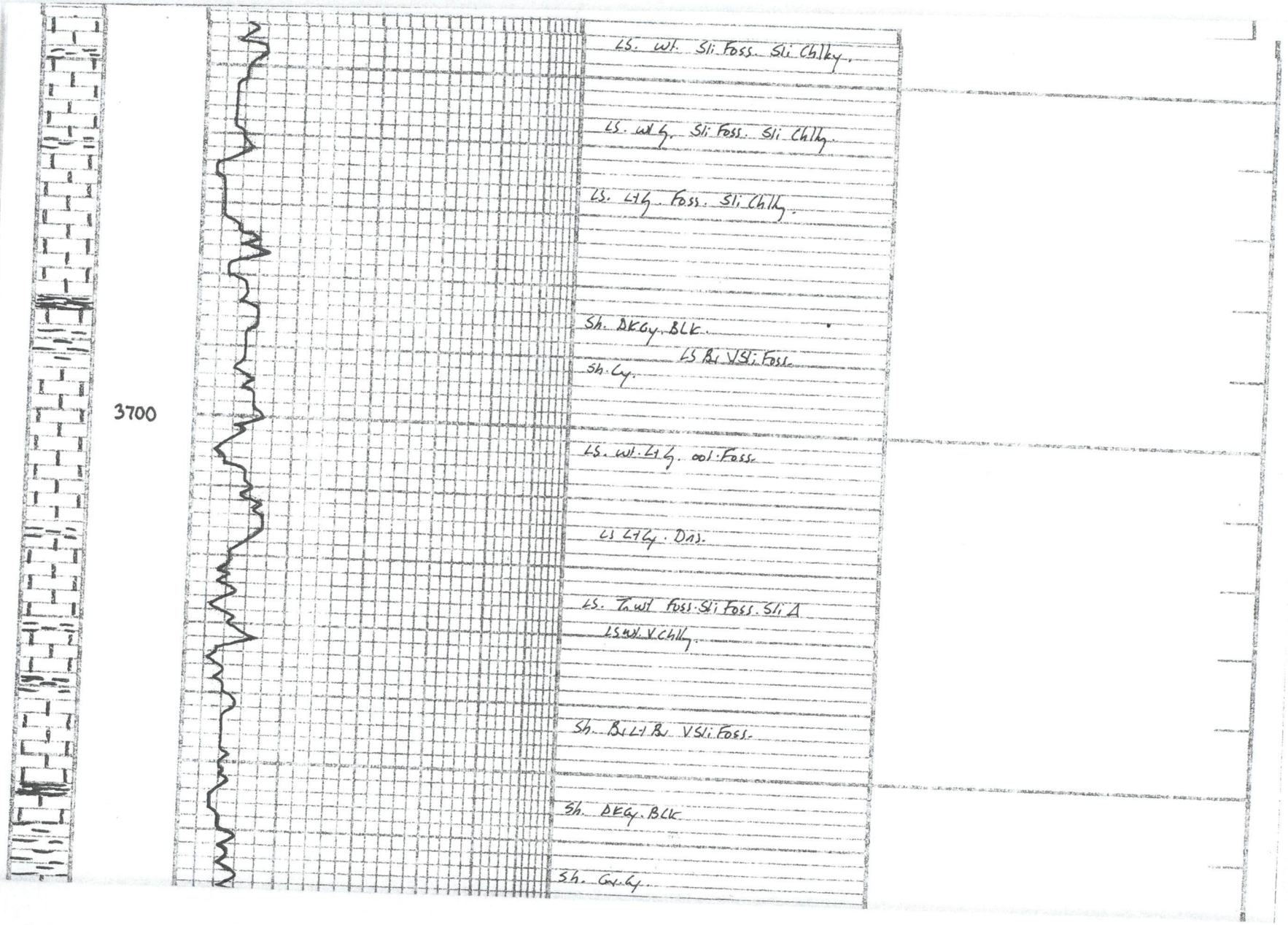


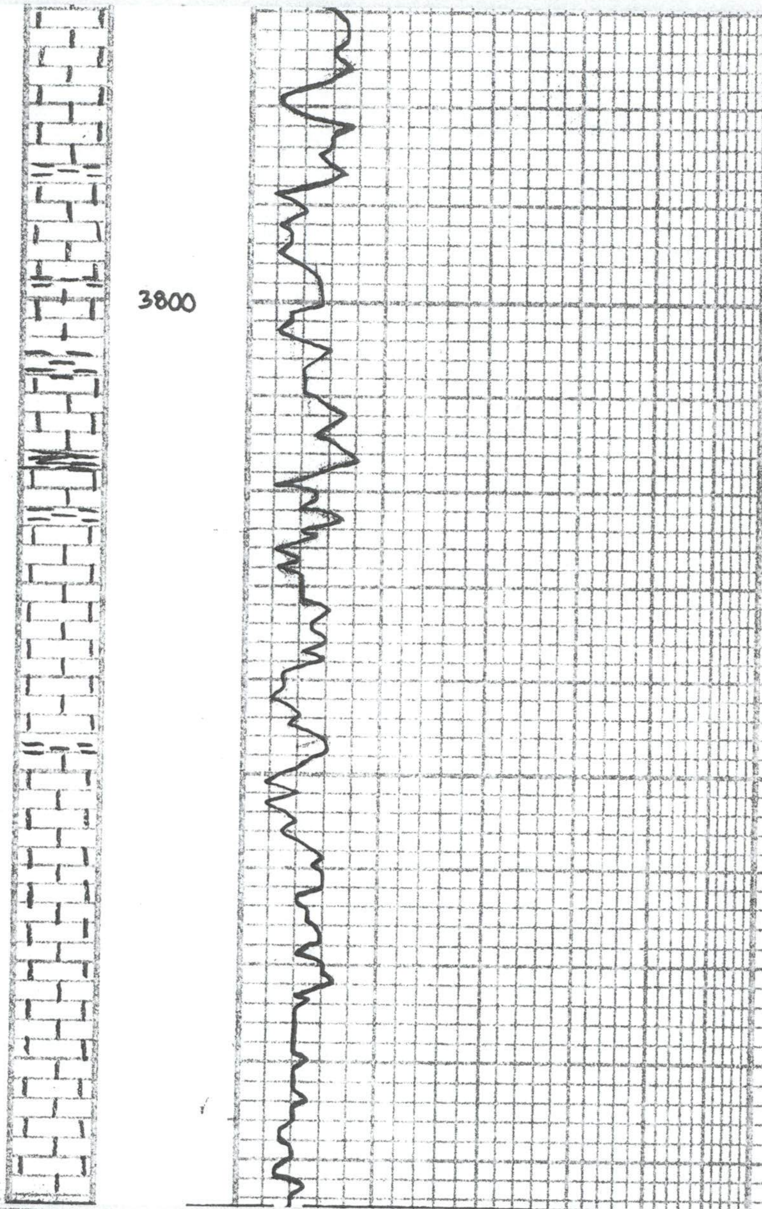
LITHOLOGY	DEPTH	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Increases 5" 10" 15" 20" 25"	SAMPLE DESCRIPTIONS	REMARKS
	1950			


✓ ANH. LOG
2000
ANHYDRITE
2002 + 632
✓ B/ANH. LOG
B/ANH.
2026 + 608
2050


3400
Sh. Rd. Lt Gr Gy. Silty
Sh. Rd. Grn Gy. Sdy
STOTLER 3462-828
Sh Rd Gy. Gy-Gr. Sdy-Silty
Sh. Rd Gy. Gy-Gr. Ts. LS. Tr. Lt Br. Foss.
3500
Sh. Brn. Rd Silty. Gy. Silty. LS Br. Foss. Dns.


Sh. Rd.Gy. Ls. wt. Sli. Foss. Sli A
Samples are Logged
Displaced Mud @ 3592
Sh. Lt Gy. Silty
Ls. Tn. Gy. Sli Foss.
Ls. Bi. V.Sli. Foss.
Ls. Wt Lt Gy. Foss.
Ls. Tn Lt Bi Sli A
3600
Sh. Gy. Lt Gy. Silty Sdy.
Ls. Wt Foss. Sli. Calcitic.


3700
LS. wl. Sli Foss. Sli Chlky.
LS. wl Gy. Sli Foss. Sli Chlky.
LS. Lt Gy. Foss. Sli Chlky.
Sh. DK Gy. BLK.
LS Bi VSli Foss.
Sh. Gy.
LS. wl. Lt Gy. ool: Foss.
LS Lt Gy. Dns.
LS. Tn wt Foss. Sli Foss. Sli A
LS wl. V. Chlky.
Sh. Bi Lt Bi VSli Foss.
Sh. DK Gy. BLK
Sh. Gn. Gy.



3800

LS Gy. Dol.

LS. wt Foss. Chlky.

LS. Tn-wt. Foss. Calcitic

LS. wt. V.chlky.

Sh. Blk.

Δ Gy. LS. Tn-Foss. Calcitic.

LS. LtG. Sli Foss w/ DkG. Foss.

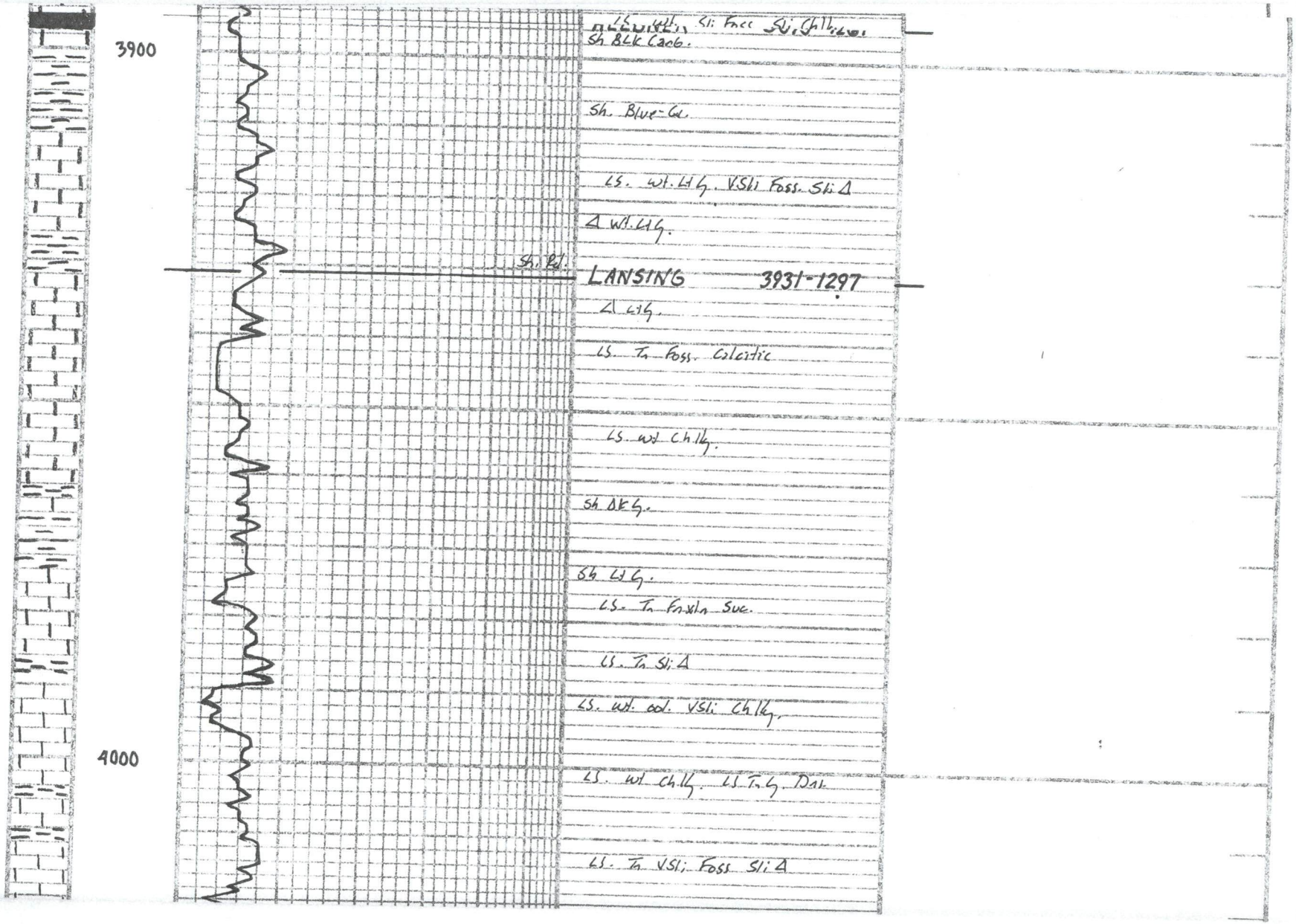
LS. Tn-wt. Foss. Calcitic.

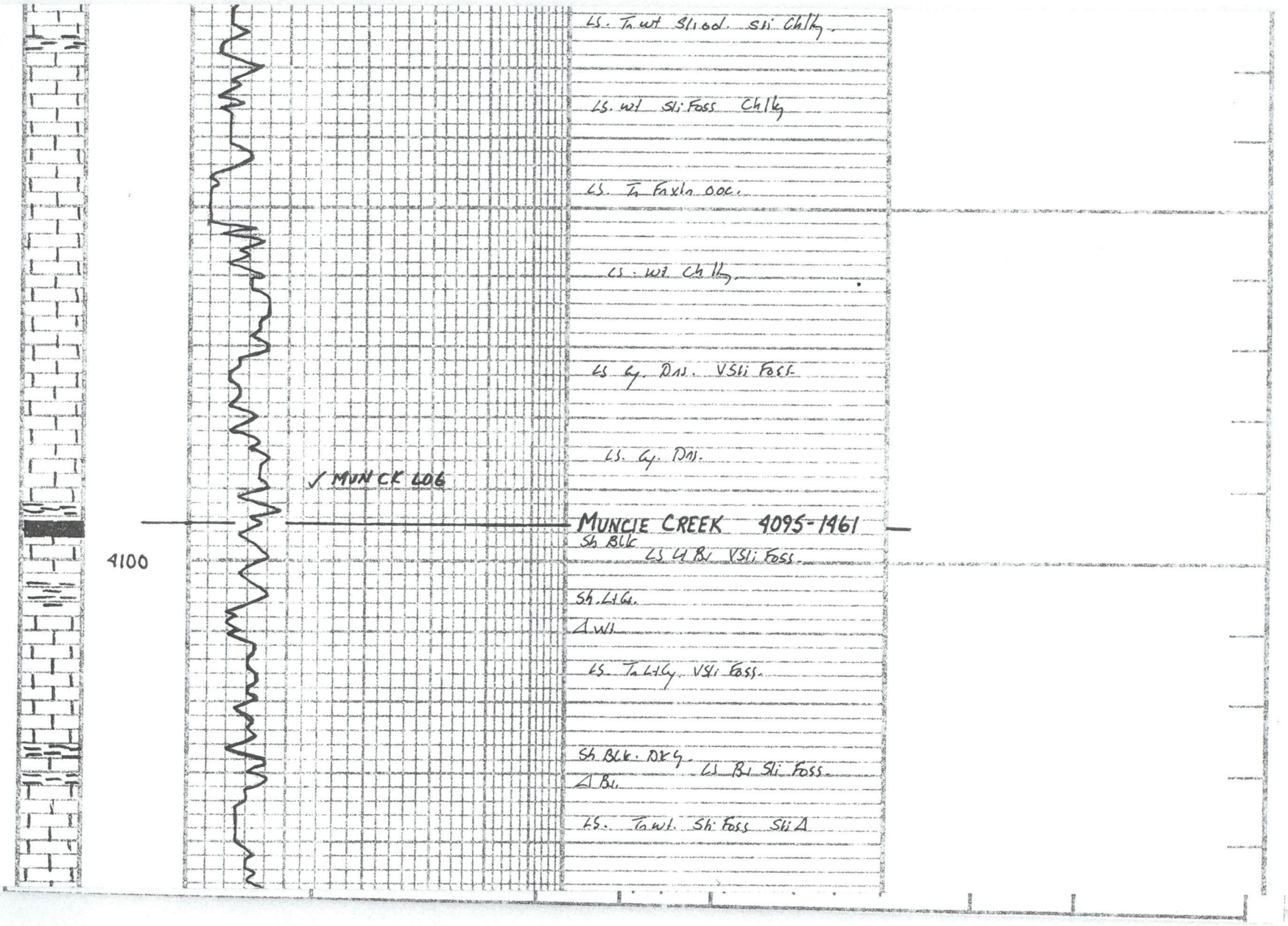
Δ Clr. LtGy.

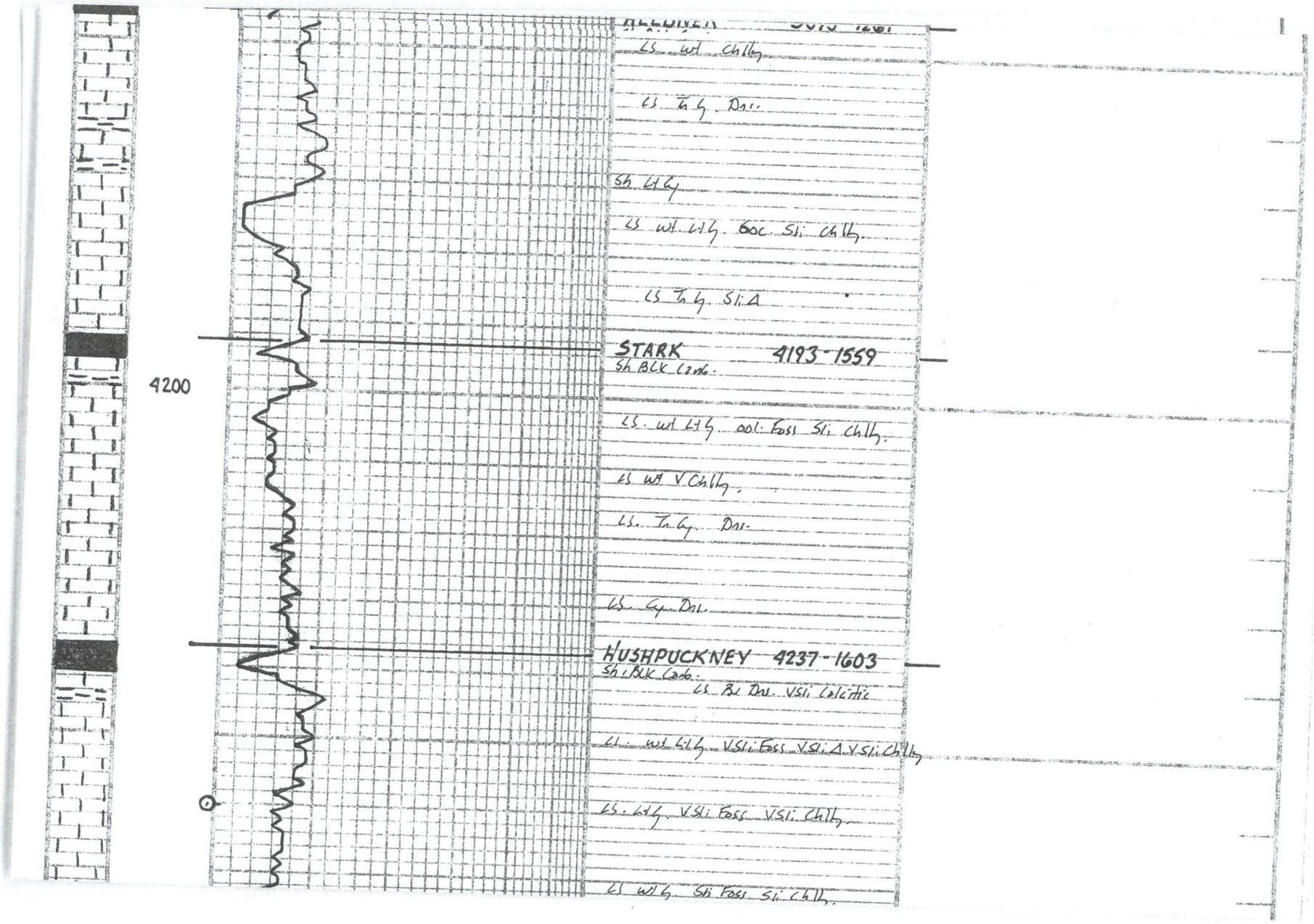
LS. Tn-LtG. VSli. Chlky.

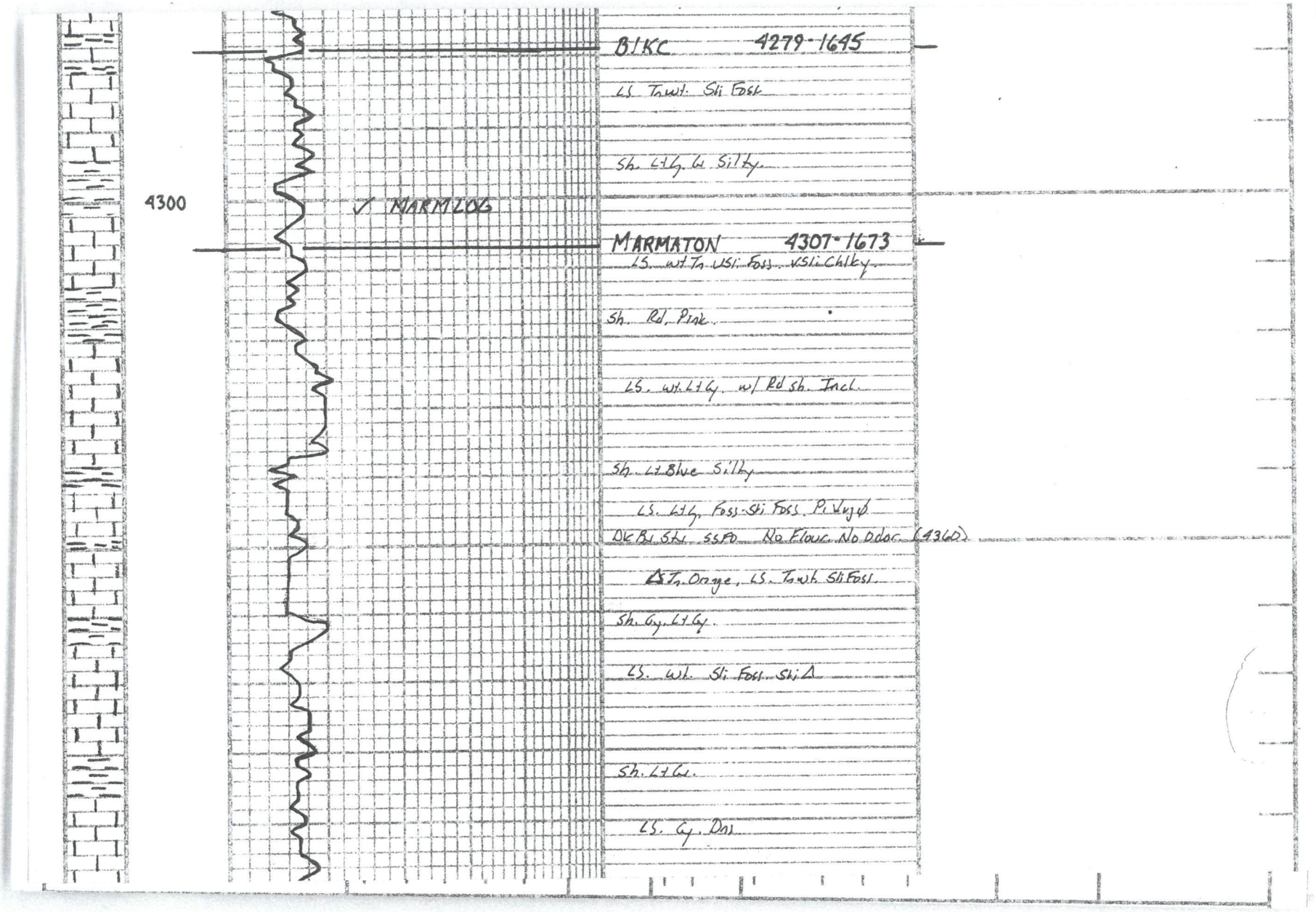
LS. Tn-LtBr. Sli Foss. Sli Chlky.

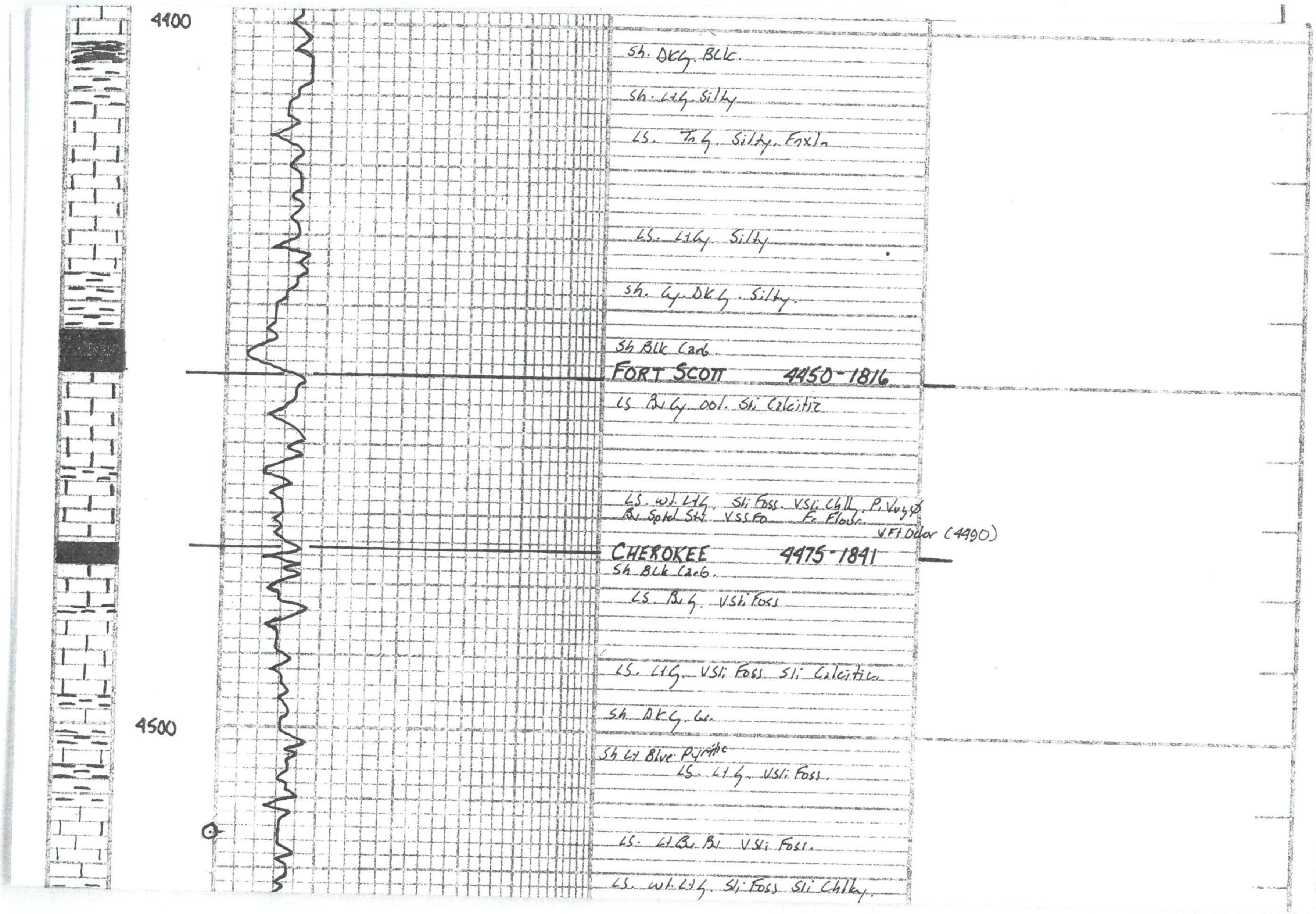
HEEBNER 3805 - 1261

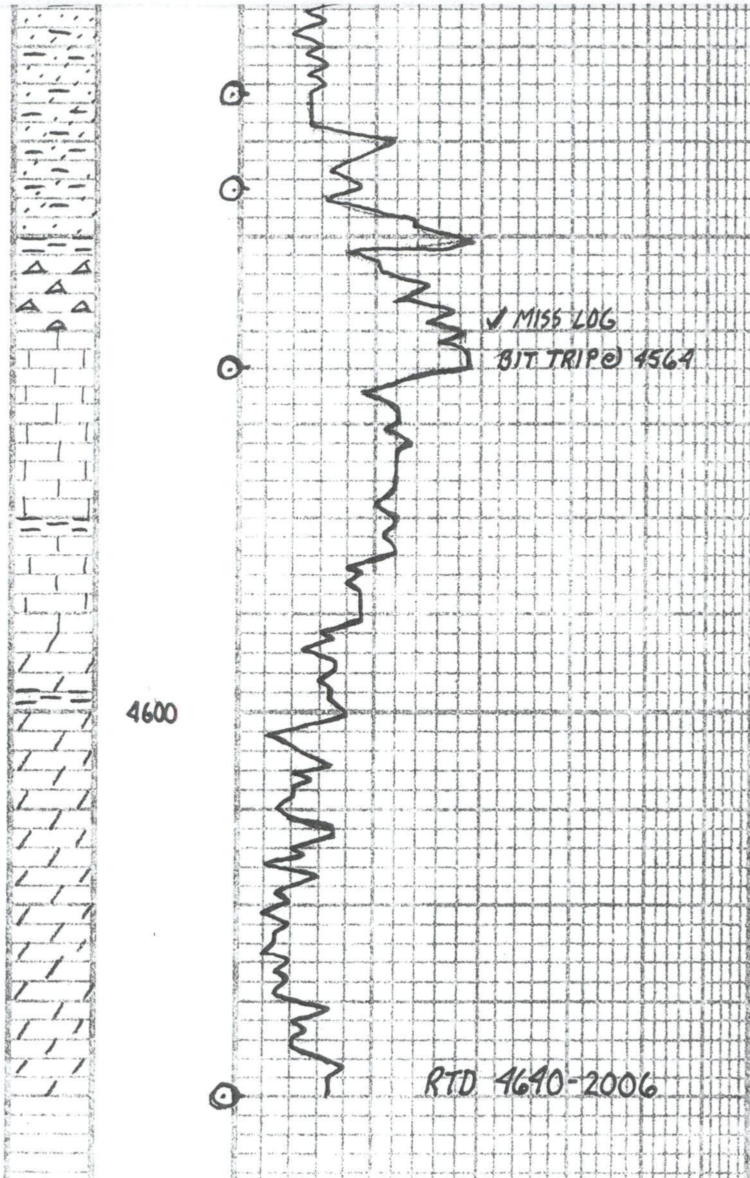

3900
4000
Sh. Blk Calc.
Sh. Blue-Gy.
LS. wt. Lt Gy. VSli Foss. Sli Δ
Δ wt. Lt Gy.
Sh. Bk.
LANSING 3931-1297
Δ Lt Gy.
LS. Tn Foss. Calcitic
LS. wt Ch. Lt Gy.
Sh. DK Gy.
Sh Lt Gy.
LS. Tn Fnxln Suc.
LS. Tn Sli Δ
LS. wt. cal. VSli Ch. Lt Gy.
LS. wt Ch. Lt Gy. LS. Tn Gy. Dol.
LS. Tn VSli. Foss Sli Δ


LS. Tn wt Sl.od. Sli Chlky.
LS. wt Sli Foss Chlky
LS. Tn Foxln ooc.
LS. wt Chlky.
LS Gy. Dns. VSli Foss.
LS. Gy. Dns.
✓ MUNCK LOG
MUNCIE CREEK 4095-1961
Sh Blk LS Gy Bt VSli Foss.
Sh. Lt Gy.
Lwh
LS. Tn Lt Gy. VSli Foss.
Sh Blk. Dk Gy. LS Bt Sli Foss.
Bt.
LS. Tn wt. Sh Foss Sli A
4100


4200
Ls wt Chlky.
Ls Tn Gy Dns.
Sh Lt Gy
Ls wt Lt Gy. Foc Sli Chlky.
Ls Tn Gy Sli A
STARK 4193-1559
Sh BLK Carb.
Ls. wt Lt Gy. ool: Foss Sli Chlky.
Ls wt V Chlky.
Ls. Tn Gy Dns.
Ls. Gy Dns.
HUSHPUCKNEY 4237-1603
Sh: BLK Carb.
Ls Bf Dns. VSli Calcitic
Ls. wt Lt Gy. VSli Foss VSli A VSli Chlky
Ls. Lt Gy. VSli Foss VSli Chlky.
Ls wt Gy Sh Foss Sli Chlky.


4300
✓ MARMLOG
BKC 4279-1645
LS. Tn wt. Sli Fosl
Sh. Lt Gy. w Silty
MARMATON 4307-1673
LS. wt Tn VSli. Foss. VSli Chlky
Sh. Rd. Pink
LS. wh Lt Gy. w/ Rd sh. Inch
Sh. Lt Blue Silty
LS. Lt Gy, Foss-Sli Foss. P. Vug ϕ
DEB. Sh. SSFD No Flour. No Odor (4360)
LS Tn Orge, LS. Tn wh Sli Fosl.
Sh. Gy. Lt Gy.
LS. wh. Sli Foss. Sh. Δ
Sh. Lt Gr.
LS. Gy. Dns


4400
4500
Sh. DkG. Blk.
Sh. LtG. Silty
LS. TnG. Silty. Fnxln
LS. LtG. Silty
Sh. Gy. DkG. Silty.
Sh Blk Carb.
FORT SCOTT 4450-1816
LS BrG. ool. Sli Calcitic
LS. wh. LtG. Sli Foss. VSli Chlk. P. Vug Ø
Br. Sptd Stn VSSFO Fr. Flour.
VFt Odor (4490)
CHEROKEE 4475-1841
Sh Blk Carb.
LS. BrG. VSli Foss
LS. LtG. VSli Foss Sli Calcitic
Sh. DkG. Ls.
Sh Lt Blue Pyritic
LS. LtG. VSli Foss.
LS. Lt Br. Br VSli Foss.
LS. wh. LtG. Sli Foss Sli Chlky.



Sh.

Sd. Clr. Lt. Fn Gr Sub Rd Dns. P. Intg ø Bl Stn VSS Fo. No Fluor No Odor (4535)

Sd Clr wt. Fn Md Gr Sub Rd. Dns.

Sd Clr wt. Fn Md, ¯c Crs Gr Sub Rd Poorly Sorted.

Δ wt Lt. Foss.

LS. Tn Br Sli Δ

LS. wt. Chlky.

LS Tn Lt. ool. Sli Δ

LS. wt. Lt Lt. Sli Foss. Calcitic

LS. Tn Lt. ool. Sli Δ

Dol. Lt Lt. V Fn xln Suc.

Dol. Tn Lt. V Fn xln Suc.

Dol. Tn Lt Lt. V Fn xln Sli Foss. Suc. "Vuggy"

Dol. wt Lt Lt. V Fn xln Suc Sli Foss.