KOLAR Document ID: 1283469

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 # 5120
Name: Range Oil Company, Inc.
Address 1: 9412 E. CENTRAL
Address 2: PO BOX 781775
City: WICHITA State: KS Zip: 67278 + 1775
Contact Person: John Washburn
Phone: (316) 265-6231
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Ken Wallace
Purchaser: Coffyville Resources

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: Range Oil Company, Inc.
Well Name: Snyder #1
Original Comp. Date: 3/25/2014 Original Total Depth: 3340

☐ 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 #:

10/16/2015	10/17/2015	11/17/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-035-24554-00-01
Spot Description:
NW SW SW NE Sec. 28 Twp. 32 S. R. 5 ☑ East ☐ West
2300 Feet from ☑ North / ☐ South Line of Section
2380 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: Cowley
Lease Name: Snyder Well #: 1
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1258 Kelly Bushing: 1264
Total Vertical Depth: 3390 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 238 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: 6000 ppm Fluid volume: 300 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: 02/04/2016
☑ **Confidential Release Date:** 02/03/2018
☐ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/05/2016

Operator Name: Range Oil Company, Inc. Lease Name: Snyder Well #: 1

Sec. 28 Twp. 32 S. R. 5 ☑ East ☐ West County: Cowley

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
Geologist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:

Dual porosity
Dual Induction
Microlog

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

Name	Top	Datum
Iatan	1902	-638
Layton	2377	-1113
KC	2517	-1253
BKC	2648	-1384
Mississippian	3107	-1843
DDTD	3390	-2126

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	238	common	125	3% CaCl
Production	7.875	5.5	15.5	3384	Thickset	165	none

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	-			
	-			

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: 11/17/2015

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	30		250		39

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)*

PRODUCTION INTERVAL:

Top	Bottom
3185 - 3354	

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: 2.875 Set At: 3358 Packer At:

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

Form	ACO1 - Well Completion
Operator	Range Oil Company, Inc.
Well Name	Snyder 1
Doc ID	1283469

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	238	common	125	3% CaCl
Production	7.875	5.5	15.5	3384	Thickset	165	none

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

Elite COPY
Cementing & Acidizing of Kansas, LLC

Cement or Acid Field Report
Ticket No. **1019**
Foreman Rick Ledford
Camp Eureka Ks

Date	Customer ID #	Lease & Well Number	Section	Township	Range	County	State
3/13/14	1034	Snyder # 1	28	32S	SE	Cowley	Ks

Customer: Range Oil Company Inc.
Mailing Address: P.O. Box 781775
City: Wichita | State: Ks | Zip Code: 67278

Safety Meeting: RL SF AM

Unit #	Driver	Unit #	Driver
102	Shannon F.		
110	Alan M.		

Job Type: Surface | Hole Depth: 238' | Slurry Vol.: 30 Bbl | Tubing:
Casing Depth: 238 | Hole Size: 12 1/4" | Slurry Wt.: 15# | Drill Pipe:
Casing Size & Wt.: 8 5/8" | Cement Left in Casing: 20' | Water Gal/SK: 6.5 | Other:
Displacement: 14 Bbl | Displacement PSI: | Bump Plug to: | BPM:

Remarks: Safety meeting- Rig up to 8 5/8" casing. Break circulation w/ 10 Bbl water. Mixed 125 sks class A cement w/ 3% cacl2, 2% gel + 1/4# flocele/sk @ 15#/gal. shut down, release 8 5/8" wooden plug. Displace w/ 14 Bbl water. Shut casing in w/ good cement returns to surface = 6 Bbl slurry to pit. Job complete. Rig down.

COMPLETED

"Thank You"

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	840.00	840.00
C107	60	Mileage	3.95	237.00
C-200	125 sks	class A cement	15.00	1875.00
C-205	350#	3% cacl2	.60	210.00
C-206	235#	2% gel	.20	47.00
C-209	30#	1/4# flocele/sk	2.25	67.50
C-1088	5.88	ton mileage bulk trk	1.35	476.28
C-413	1	8 5/8" wooden plug	80.00	80.00
C-506	2	8 5/8" x 12 1/4" centralizers	65.00	130.00
			subtotal	3962.78
		6.40%	Sales Tax	154.21
			Total	4116.99

Authorization: Dan Cox | 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.

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

ELITE CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **2571**
Foreman Russell McCoy
Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
10-17-15	1034	Snyder # 1				Cowley	Ks

Customer: Range Oil Company Inc.
Mailing Address: P.O. Box 781775
City: Wichita | State: Ks | Zip Code: 67278

Safety Meeting: RM, Shannon, Ricl, seth, chris

Unit #	Driver	Unit #	Driver
105	Shannon		
113	Chris		
141	seth		

Job Type Longstring | Hole Depth 3388 by PIPE | Slurry Vol. 50 Bbl | Tubing
Casing Depth 3378.75 G.L. | Hole Size 7 7/8 | Slurry Wt. 13.7 | Drill Pipe
Casing Size & Wt. 5 1/2 14# & 15 1/2 | Cement Left in Casing 6.50' | Water Gal/SK 9.0 | Other
Displacement 83 Bbl | Displacement PSI 800# | Bump Plug to 1300# | BPM 5 BPM

Remarks: SAfety meeting, Rig up to 5 1/2 casing set @ 3378.75 G.L. Break circulation w/ 5 Bbl water mix 10 Bbl metasilicate pre Flush, Pump 5 Bbl spacer. Mix & Pump 150 SKs Thickset w/ 5 # Kolseal at 13.7 # Pump 15 SKs In Rate Hole 50 Bbl TOTAL Slurry. WASH out Pump & Lines, Release 5 1/2 Plug. DisPlace w/ 83 Bbl @ 800 # Final PumP PSI 800 # Bump Plug to 1300 # check FloAT FloAT Held. Good Circulation During Cementing Procedure. Job Complete Tear Down.

NOTE TAG Fill @ 3382' wash Down to 3388'

Centralizer # 1 # 4 # 7 # 14 # 20 1737.45' 14 # 1641.13' 15 1/2 # casing TOTAL 3378.58

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-102	1	Pump Charge	1050.00	1050.00
C-107	50	Mileage	3.95	197.50
C-201	165	SKs Thickset Cement	19.50	3217.50
C-207	825#	Kolseal = 5# Per/SK	.45	371.25
C-216	100 #	metasilicate Pre Flush	2.00	200.00
C-108B	9 TON	TON Mileage x 50	1.35	607.50
C-113	5 hr	80 Bbl VAC Truck	85.00	425.00
C-224	3,300	gallons city water	10 M/1000	33.00
C-421	1	5 1/2 Latch Down Plug	230.00	230.00
C-703	1	5 1/2 AFU Insert	145.00	145.00
C-504	5	5 1/2 x 7 7/8 Centralizers	48.00	240.00
				6,716.75
			Sales Tax	299.48
			Total	7016.23

Authorization Bill Shutt 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.

DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
Snyder1DST1

ompany Range Oil Company, Inc. Lease & Well No. Snyder No. 1

levation 1271 EGL Formation Mississippi Effective Pay -- Ft. Ticket No. RR012

ate 3-22-14 Sec. 28 Twp. 32S Range 5E County Cowley State Kansas

est Approved By Ken Wallace Diamond Representative Ricky Ray

ormation Test No. 1 Interval Tested from 3,117 ft. to 3,127 ft. Total Depth 3,127 ft

acker Depth 3,112 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

acker Depth 3,117 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

epth of Selective Zone Set ft.

op Recorder Depth (Inside) 3,098 ft. Recorder Number 5515 Cap. 5,000 psi.

ottom Recorder Depth (Outside) 3,119 ft. Recorder Number 5586 Cap. 5,000 psi.

elow Straddle Recorder Depth ft. Recorder Number Cap. psi.

rilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 314 ft I.D. 2 1/4 in.

ud Type Chemical Viscosity 46 Weight Pipe Length -- ft I.D. -- in.

eight 9.5 Water Loss 8.0 cc. Drill Pipe Length 2,770 ft I.D. 3 in.

hlorides 1,300 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.

ars: Make Sterling Serial Number 4 Anchor Length 10 ft. Size 4 1/2-FH in.

id Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2-XH in.

low: 1st Open: Weak, 1/4 in. blow. Died in 15 mins. No blow back during shut-in.

2nd Open: No blow. No blow back during shut-in.

Recovered 28 ft. of mud = .137760 bbls. (Grind out: 100%-mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 10:45 P.M. Time Started off Bottom 12:25 A.M. Maximum Temperature 111°

Initial Hydrostatic Pressure.....(A) 1494 P.S.I.

Initial Flow Period.....Minutes 30 (B) 24 P.S.I. to (C) 75 P.S.I.

Initial Closed In Period.....Minutes 30 (D) 186 P.S.I.

Final Flow Period.....Minutes 10 (E) 30 P.S.I to (F) 61 P.S.I.

Final Closed In Period.....Minutes 30 (G) 158 P.S.I.

Final Hydrostatic Pressure.....(H) 1489 P.S.I.

DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
Snyder1DST2

Company Range Oil Company, Inc. Lease & Well No. Snyder No. 1

Elevation 1271 EGL Formation Mississippi Effective Pay -- Ft. Ticket No. RR013

Date 3-23-14 Sec. 28 Twp. 32S Range 5E County Cowley State Kansas

Test Approved By Ken Wallace Diamond Representative Ricky Ray

Formation Test No. 2 Interval Tested from 3,117 ft. to 3,132 ft. Total Depth 3,132 ft

Packer Depth 3,112 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,117 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,098 ft. Recorder Number 5515 Cap. 5,000 psi.

Bottom Recorder Depth (Outside) 3,118 ft. Recorder Number 5586 Cap. 5,000 psi.

Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 314 ft I.D. 2 1/4 in.

Mud Type Chemical Viscosity 45 Weight Pipe Length -- ft I.D. -- in.

Weight 9.3 Water Loss 7.2 cc. Drill Pipe Length 2,770 ft I.D. 3 in.

Chlorides 1,300 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.

Jars: Make Sterling Serial Number 4 Anchor Length 15 ft. Size 4 1/2-FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2-XH in.

Blow: 1st Open: Weak, 1/4 in. blow increasing to 1 in. in 30 mins. No blow back during shut-in.

2nd Open: Weak, 1/4 in. blow increasing to 1 1/4 ins. in 60 mins. No blow back during shut-in.

Recovered 15 ft. of oil specked mud = .073800 bbls. (Grind out: 100%-mud w/ a few oil specks)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 1:30 P.M. Time Started off Bottom 4:30 P.M. Maximum Temperature 105°

Initial Hydrostatic Pressure.....(A) 1520 P.S.I.

Initial Flow Period.....Minutes 30 (B) 10 P.S.I. to (C) 16 P.S.I.

Initial Closed In Period.....Minutes 30 (D) 54 P.S.I.

Final Flow Period.....Minutes 60 (E) 16 P.S.I to (F) 20 P.S.I.

Final Closed In Period.....Minutes 60 (G) 70 P.S.I.

Final Hydrostatic Pressure.....(H) 1513 P.S.I.

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY RANGE OIL COMPANY

LEASE SNYDER #1

FIELD

LOCATION 2300' FNL + 2380' FEL, NE/4

SEC 28 TWSP 32 S RGE 5e

COUNTY COWLEY STATE KS

CONTRACTOR SUMMIT DRLG CO

SPUD 3/12/14 COMP 3/25/14

RTD 3350' LTD 3340'

MUD UP 1800' TYPE MUD CHEM

ELEVATIONS

KB 1268'

DF

GL 1258'

Measurements Are All From K.B.

CASING

SURFACE 8⅝" @ 233'

PRODUCTION NONE

ELECTRICAL SURVEYS

DI/GR/Dual POR

SAMPLES SAVED FROM 1800' TO RTD

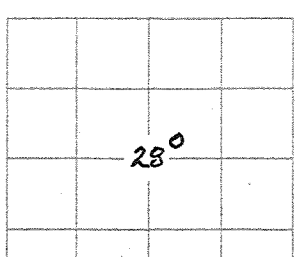
DRILLING TIME KEPT FROM 1800' TO RTD

SAMPLES EXAMINED FROM 1800' TO RTD

GEOLOGICAL SUPERVISION FROM 1900' TO RTD

GEOLOGIST ON WELL KEN WALLACE

FORMATION TOPS	LOG	SAMPLES
IATAN	1903 (-635)	1911 (-643)
STALNAKER	1948 (-680)	1951 (-683)
LAYTON	2378 (-1110)	2386 (-1118)
KANSAS CITY	2518 (-1250)	2525 (-1257)
B/ KC	2649 (-1381)	2658 (-1390)
AITAMONT	2726 (-1458)	2736 (-1468)
CHEROKEE	2846 (-1578)	2855 (-1587)
Miss A	3108 (-1840)	3110 (-1842)
Miss LS	3137 (-1869)	3144 (-1876)
RTD		3350 (-2082)
LTD	3340 (-2072)	



REMARKS SNYDER #1 RAN LOW TO KEY
WELL WITH NEGATIVE DST RESULTS
IT WAS P&A.

Ken Wallace

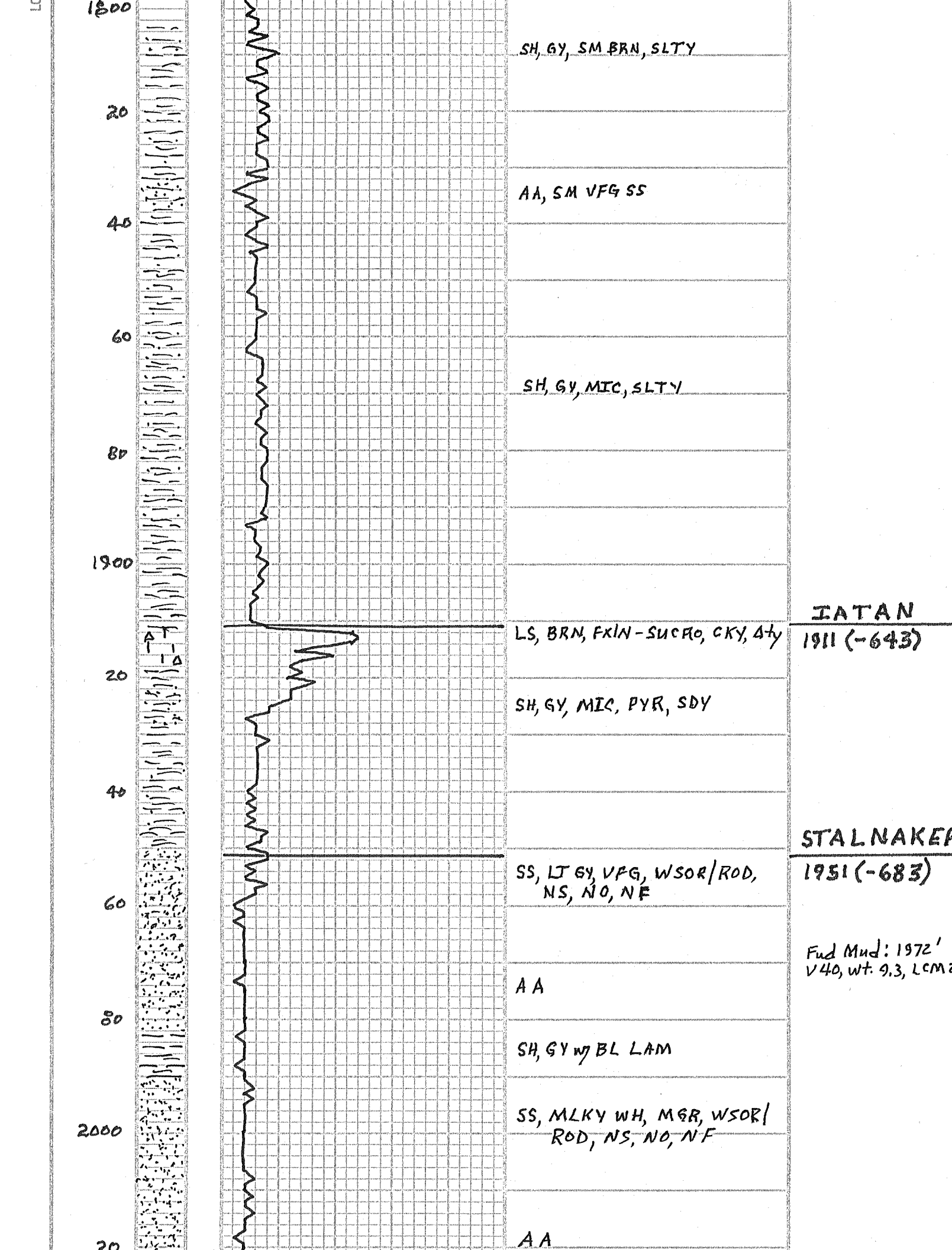
3-12-14 MIRT
3-13-14 Drlg @ 63'
3-14-14 PTD 238'; ¾° @ 238'
3-15-14 Drlg @ 721'; ¾° @ 605'
3-16-14 Drlg @ 1170'; 1° @ 1170'; BT @ 880'
3-17-14 Drlg @ 1485'; ½° @ 1485'; Repair mud pump
3-18-14 Drlg @ 1862'; ¾° @ 1861'
3-19-14 Drlg @ 2205'; BT @ 1893'
3-20-14 Drlg @ 2537'; 1° @ 2364'
3-21-14 Drlg @ 2737'; BT @ 2578'; 1¼° @ 2578'
3-22-14 Drlg @ 3084'; 1¼° @ 3127'
3-23-14 PTD 3132'; Running DST #2
3-24-14 Drlg @ 3243'
3-25-14 RTD 3350' / LTD 3340'

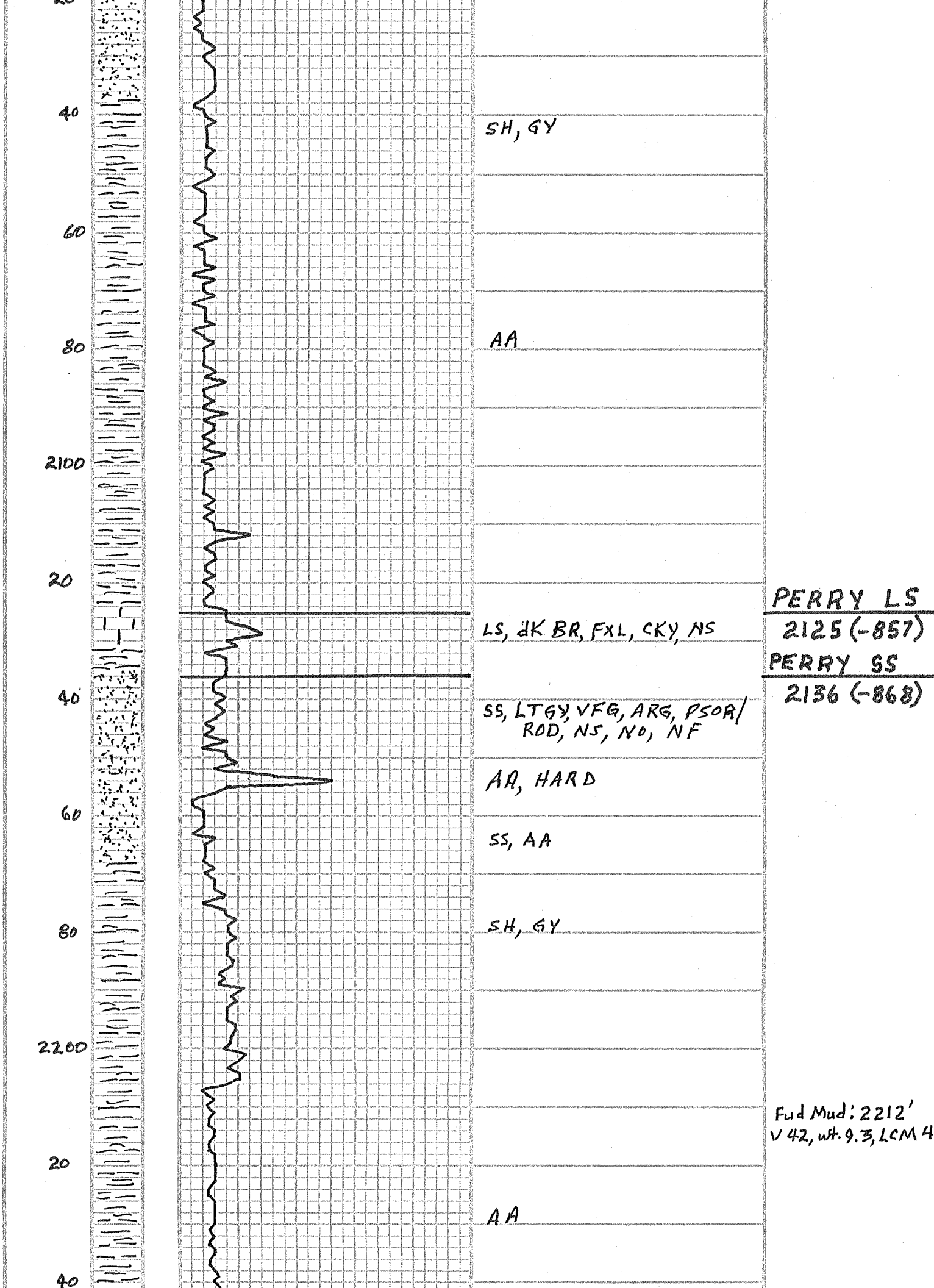
LEGEND

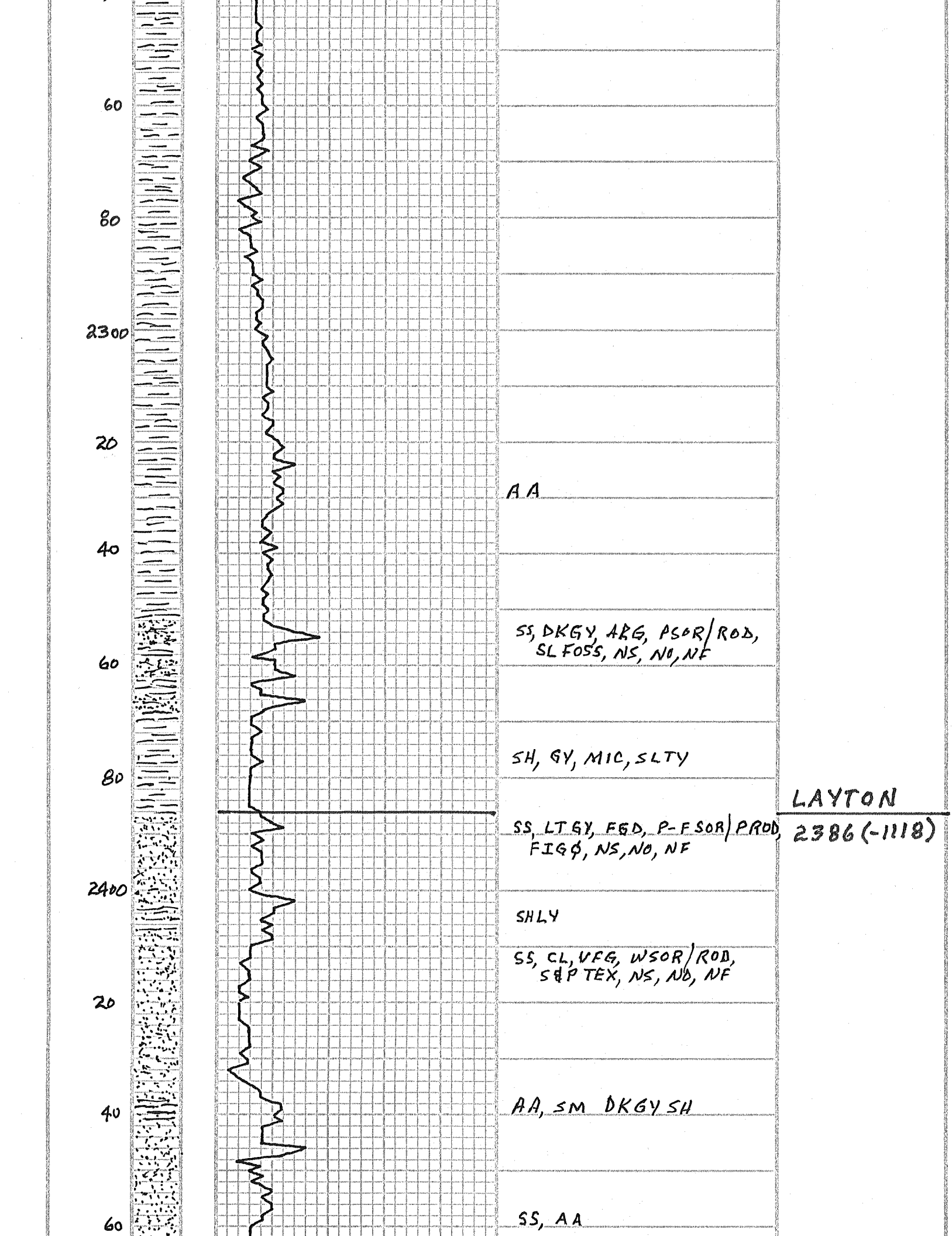
Anhydrite | Salt | Sandstone | Shale | Carb sh | Limestone | Ool. Lime | Chert | Dolomite

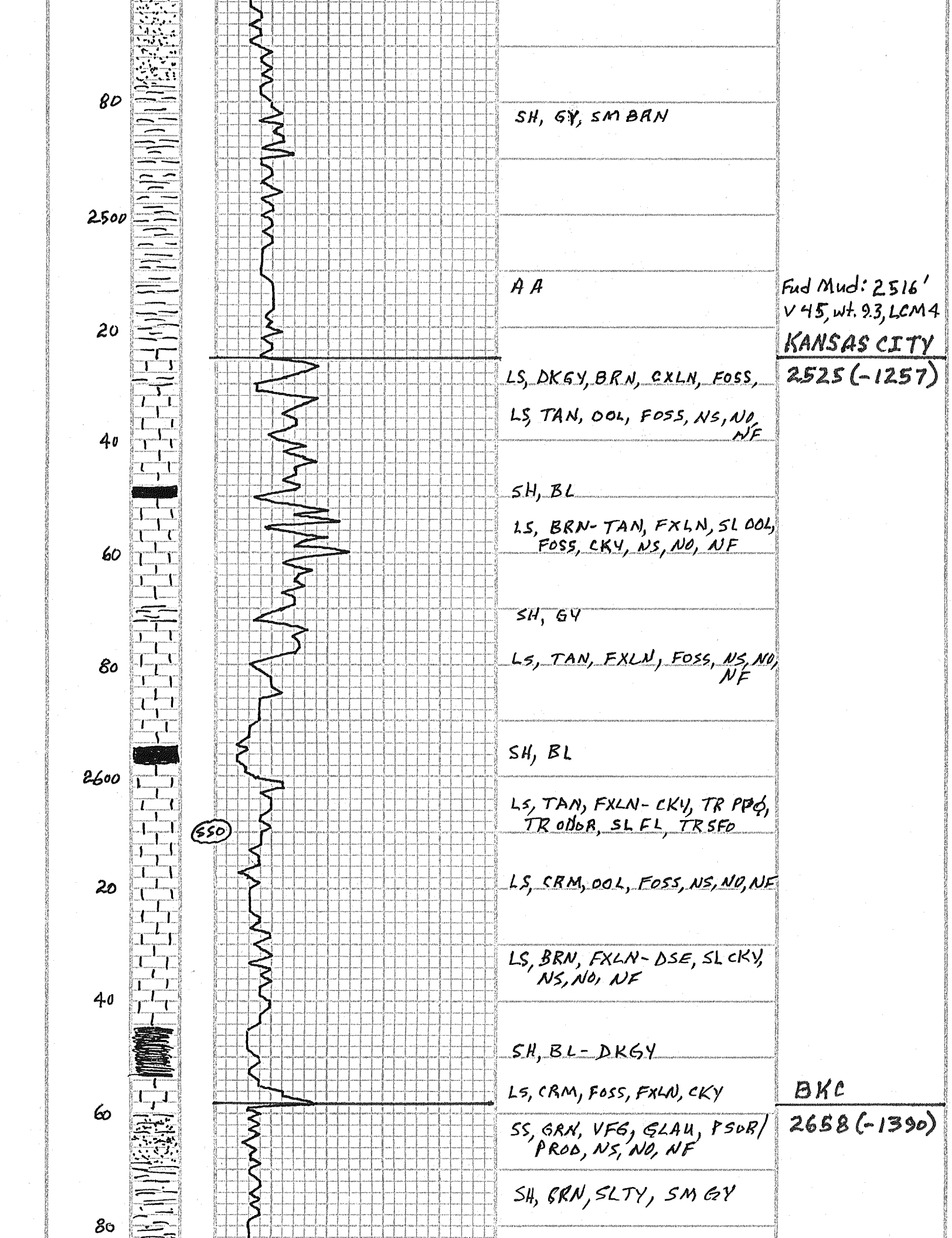
SCALE " = 100'

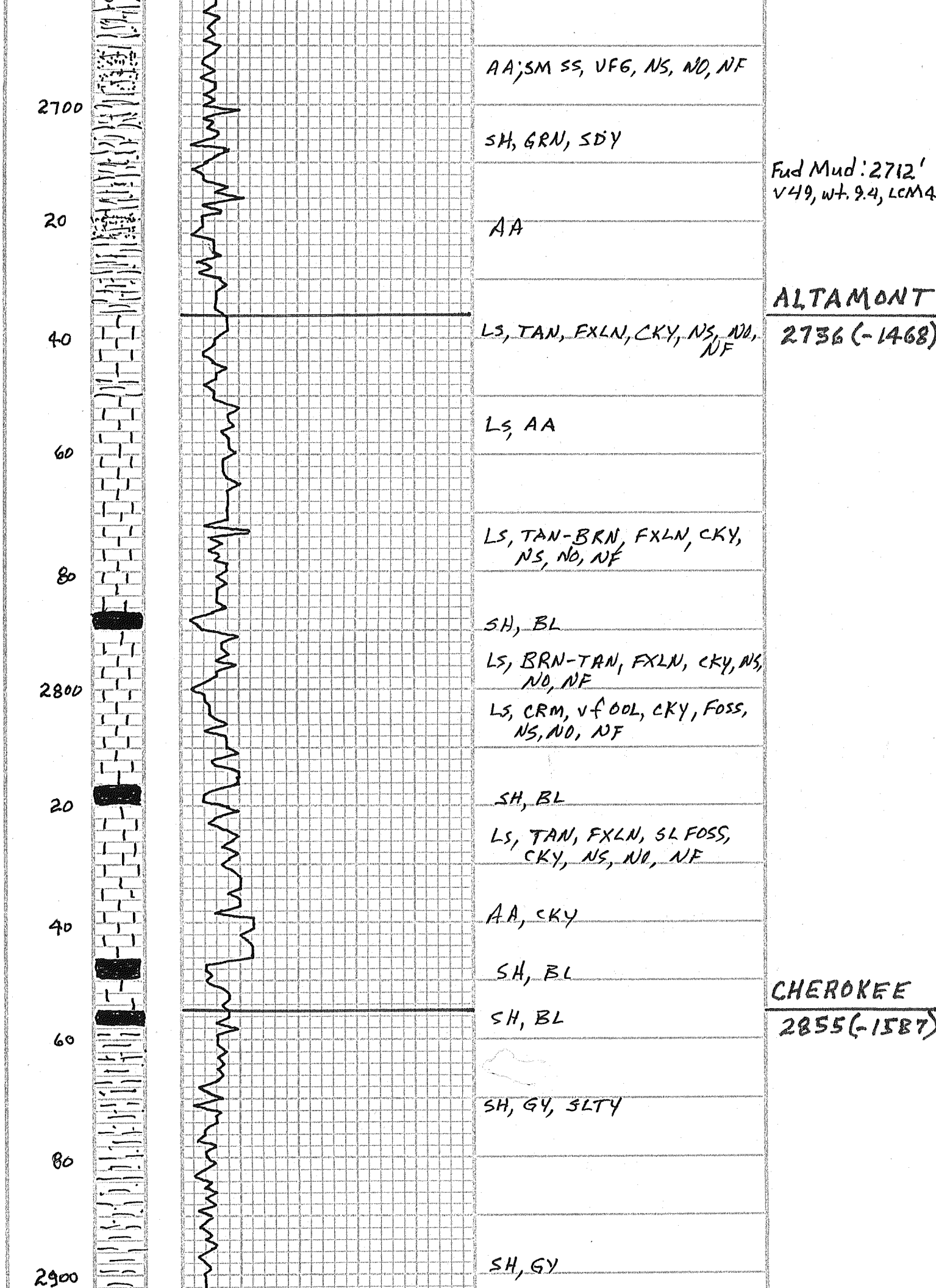
DEPTH | Gas/Oil | DST's | DRILLING TIME – Minutes Per Foot, Rate of Penetration Decreases | SAMPLE DESCRIPTIONS | REMARKS

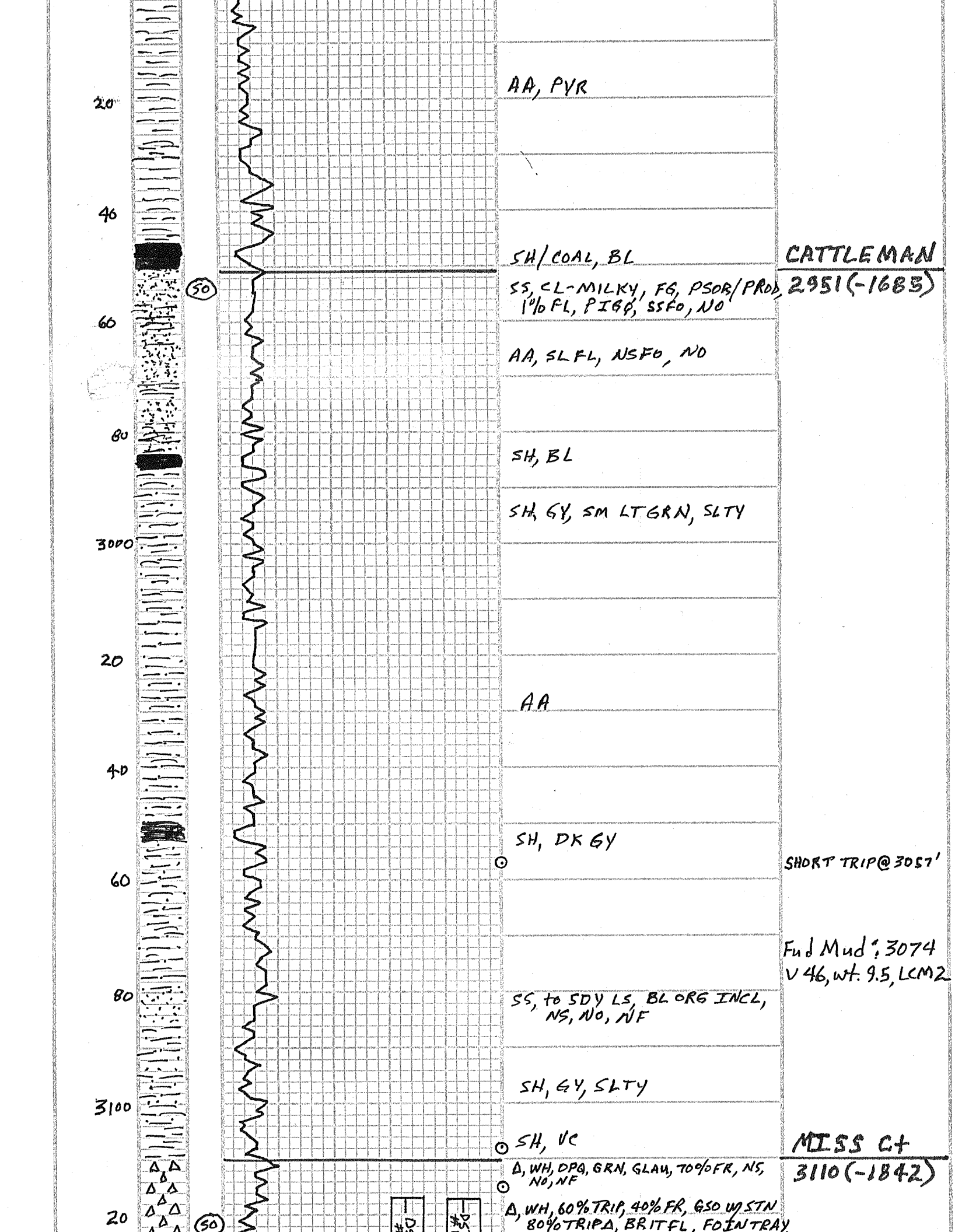

1800
20
40
60
80
1900
20
40
60
80
2000
20
SH, GY, SM BRN, SLTY
AA, SM VFG SS
SH, GY, MIC, SLTY
LS, BRN, FXLN-SUCRO, CKY, Aty
IATAN
1911 (-643)
SH, GY, MIC, PYR, SDY
STALNAKER
1951 (-683)
SS, LT GY, VFG, WSOR/ROD, NS, NO, NF
Fud Mud: 1972'
V40, wt. 9.3, LCM 2
AA
SH, GY w/ BL LAM
SS, MLKY WH, MGR, WSOR/ROD, NS, NO, NF
AA

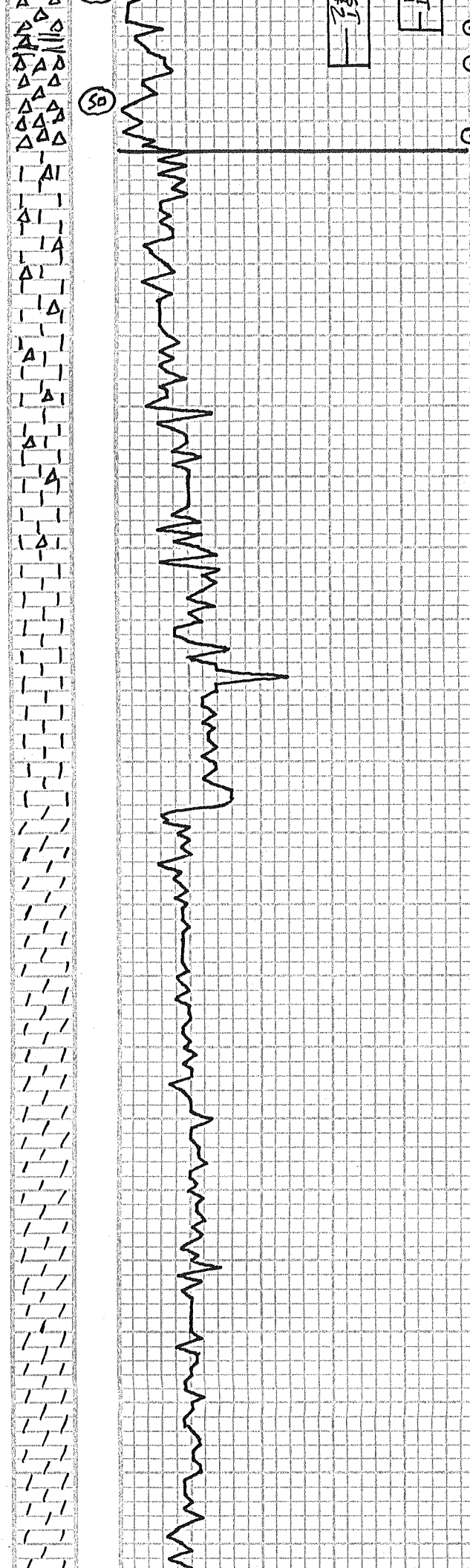

40
SH, GY
60
80
AA
2100
20
PERRY LS
2125 (-857)
LS, dK BR, FXL, CKY, NS
PERRY SS
2136 (-868)
40
SS, LTGY, VFG, ARG, PSOR/ROD, NS, NO, NF
AR, HARD
60
SS, AA
80
SH, GY
2200
Fud Mud: 2212'
V 42, wt. 9.3, LCM 4
20
AA
40


60
80
2300
20
40
60
80
2400
20
40
60
AA
SS, DKGY, ARG, PSOR/ROD, SL FOSS, NS, NO, NF
SH, GY, MIC, SLTY
SS, LTGY, FGD, P-FSOR/PROD, FIGØ, NS, NO, NF
LAYTON
2386 (-1118)
SHLY
SS, CL, VFG, WSOR/ROD, SØP TEX, NS, NO, NF
AA, SM DKGY SH
SS, AA


80
2500
20
40
60
80
2600
(550)
20
40
60
80
SH, GY, SM BRN
A A
Fud Mud: 2516'
V 45, wt. 9.3, LCM 4
KANSAS CITY
2525 (-1257)
LS, DKGY, BRN, CXLN, FOSS,
LS, TAN, OOL, FOSS, NS, NO NF
SH, BL
LS, BRN-TAN, FXLN, SL OOL, FOSS, CKY, NS, NO, NF
SH, GY
LS, TAN, FXLN, FOSS, NS, NO, NF
SH, BL
LS, TAN, FXLN-CKY, TR PP◊, TR ODOR, SL FL, TR SFO
LS, CRM, OOL, FOSS, NS, NO, NF
LS, BRN, FXLN-DSE, SL CKY, NS, NO, NF
SH, BL-DKGY
LS, CRM, FOSS, FXLN, CKY
BKC
2658 (-1390)
SS, GRN, VFG, GLAU, PSOR/PROD, NS, NO, NF
SH, GRN, SLTY, SM GY


2700
20
40
60
80
2800
20
40
60
80
2900
AA; SM SS, VFG, NS, NO, NF
SH, GRN, SDY
Fud Mud: 2712'
V49, wt. 9.4, LCM4
AA
ALTAMONT
2736 (-1468)
LS, TAN, FXLN, CKY, NS, NO, NF
LS, AA
LS, TAN-BRN, FXLN, CKY, NS, NO, NF
SH, BL
LS, BRN-TAN, FXLN, CKY, NS, NO, NF
LS, CRM, vf OOL, CKY, FOSS, NS, NO, NF
SH, BL
LS, TAN, FXLN, SL FOSS, CKY, NS, NO, NF
AA, CKY
SH, BL
CHEROKEE
2855 (-1587)
SH, BL
SH, GY, SLTY
SH, GY


20
AA, PVR
40
SH/COAL, BL
CATTLEMAN
2951 (-1685)
50
SS, CL-MILKY, FG, PSOR/PROD, 1% FL, PIGG, SSFO, NO
60
AA, SLFL, NSFO, NO
80
SH, BL
SH, GY, SM LTGRN, SLTY
3000
20
AA
40
SH, DK GY
SHORT TRIP @ 3057'
60
Fud Mud: 3074
V 46, wt. 9.5, LCM2
80
SS, to SDY LS, BL ORG INCL, NS, NO, NF
SH, GY, SLTY
3100
SH, VC
MISS C+
3110 (-1842)
Δ, WH, DPQ, GRN, GLAU, 70% FR, NS, NO, NF
Δ, WH, 60% TRIP, 40% FR, GSO W/ STN 80% TRIP Δ, BRITFL, FO IN TRAY
20
50



GD ODOR, GB, GD CUT

VC SH wp Δ AA

Δ, WH, 90% TRIP, 10% FR, SSFO/FL 80% of Δ, STN, FODOR, Gd CUT

MISS LS
3144 (-1876)

LS TAN, SMLTGY, FXLN, GLAU, wp Δ AA & SO/FL, NO CUT IN LS

Fud Mud: 3132'
V45, wt. 9.3, LCM 2

LS, TAN, OOL, SL GLAU, PUGP, SL FOSS, SL STN & FL, NVIS FO, FOD PCUT; Δ AA wp SO AA

LS, DK BRN, FOSS, CKY, PPPP, NFO, NSTN, NF, SL ODOR, 5% TRIP Δ wp SSFO/FL, NO CUT IN LS

LS, AA, Δ (GY/WH), NSFO IN LS, NO ODOR, NF, FAIR CUT LS

LS, AA, sm DK BRN Δ, NSO, NF, NO, Fair CUT

LS, AA, SI FOSS, GLAU, NODOR, NS, NF, NO CUT, SI Δ

LS, AA, SL CUT

LS, AA, GD CUT

Dol, DK BRN-TAN (MTLD), Sucro, FOSS, CKY, NS, NF, NO, GD CUT

Fud Mud: 3251'
V46, wt. 9.5, LCM 2

Dol, AR, GD CUT

AA, GD CUT, SL GLAU

AA, GD CUT

AA, GD CUT

AA, sm Lt Brn/Brn LAMI GD CUT

Dol, DK BRN, Sucr, NS, NFO, NO, GD CUT

AA, GD CUT

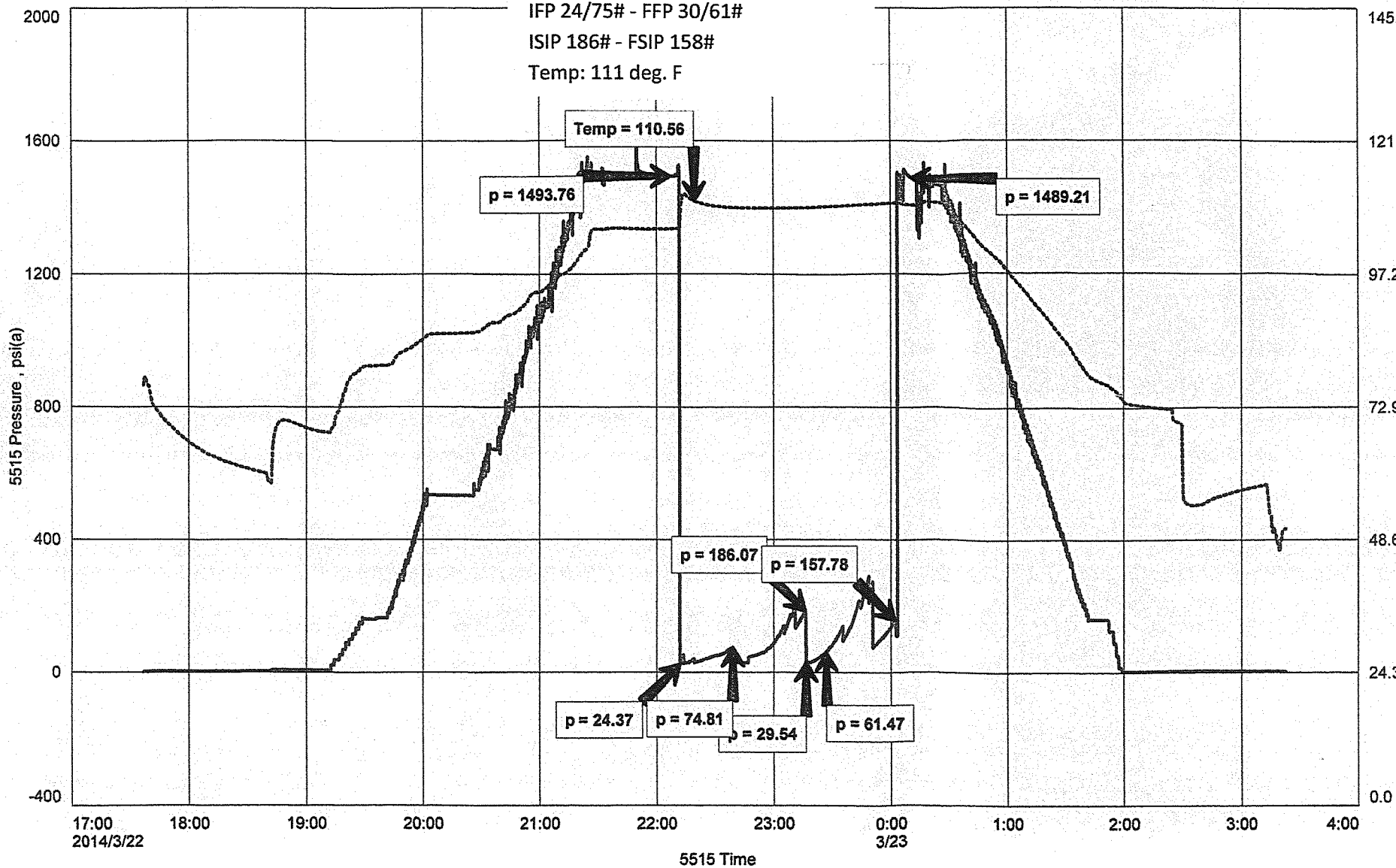
AA, poor CUT

AA, POOR CUT

Range Oil Co
Dst 1 Mississippi (3117-3127)
Start Test Date: 2014/03/22
Final Test Date: 2014/03/23

DST #1 3117-3127 (Miss Ct)
Hit Bridge TIH, Tool Opened (Misrun)
30-30-10-30
IF ¼" blow died in 15" – FF No Blow
Rec: 28' Mud
IFP 24/75# - FFP 30/61#
ISIP 186# - FSIP 158#
Temp: 111 deg. F

Snyd
Formation: Dst 1 Mississippi (3117-3
Pool: Poo
Job Number: RF



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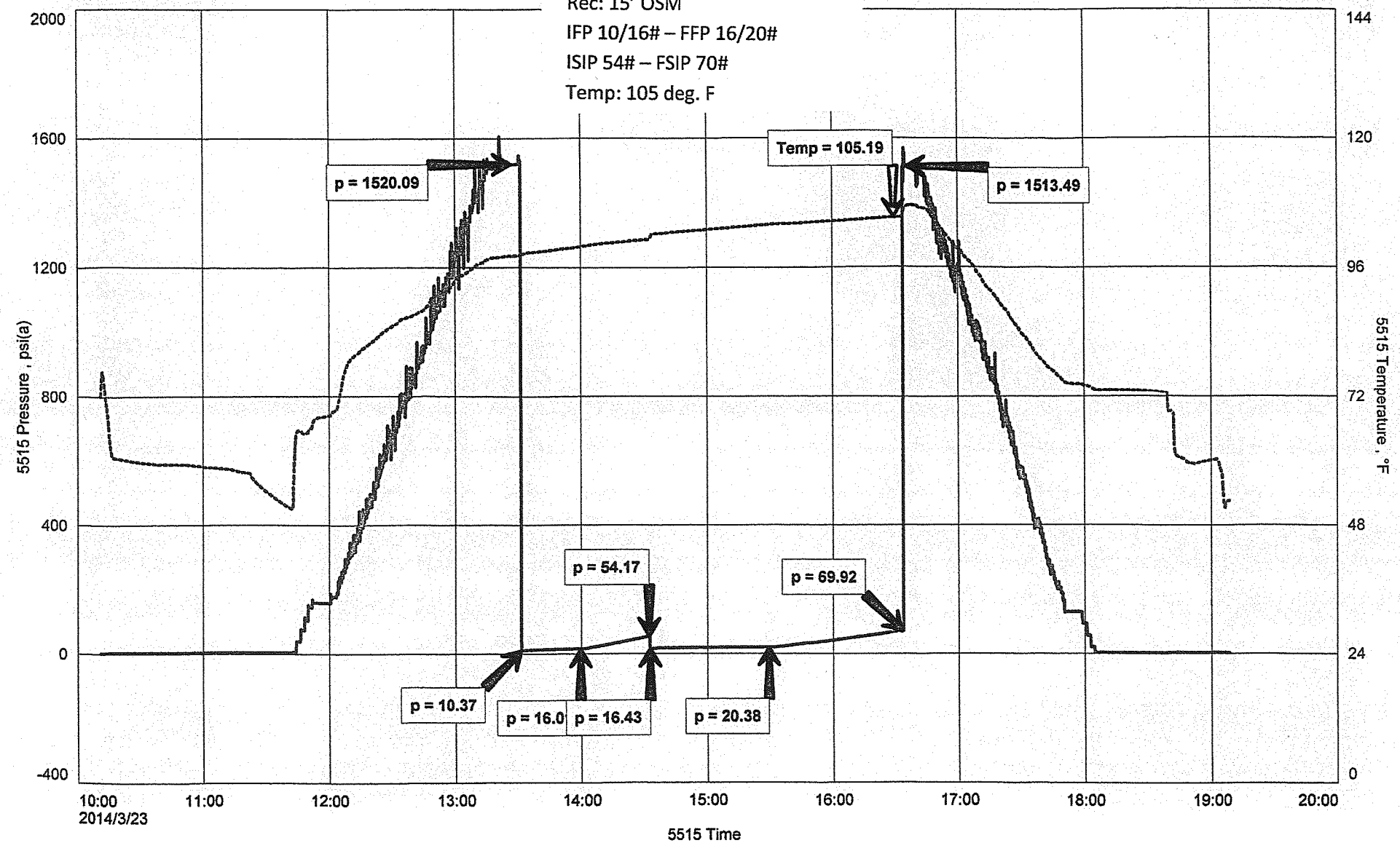
Range Oil Co
Dst 2 Mississippi (3117-3132)
Start Test Date: 2014/03/23
Final Test Date: 2014/03/23

DST #2 3117-3132 (Miss Ct)
30-30-60-60
IF ¼" blow built to 1" in 30"
FF ¼" blow built to 11/4" in 60"
Rec: 15' OSM
IFP 10/16# – FFP 16/20#
ISIP 54# – FSIP 70#
Temp: 105 deg. F

Snyder 1
Formation: Dst 2 Mississippi (3117-3132)
Pool: Pool Ext
Job Number: RR013



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