KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1052754

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6039
Name: L. D. Drilling, Inc.
Address 1: 7 SW 26TH AVE
Address 2:
City: GREAT BEND State: KS Zip: 67530 + 6525
Contact Person: L. D. DAVIS
Phone: (620) 793-3051
CONTRACTOR: License # 33323
Name: Petromark Drilling, LLC
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
- ☐ Conv. to GSW
- ☐ Plug Back: Plug Back Total Depth
- ☐ Commingled Permit #:
- ☐ Dual Completion Permit #:
- ☐ SWD Permit #:
- ☐ ENHR Permit #:
- ☐ GSW Permit #:

02/24/2011	03/04/2011	03/05/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21635-00-00
Spot Description:
_ S2 _ N2 _ SW Sec. 4 Twp. 23 S. R. 17 ☐ East ☐ West
1650 Feet from ☐ North / ☐ South Line of Section
1320 Feet from ☐ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☐ SW
County: Pawnee
Lease Name: JANE Well #: 1-4
Field Name: GARFIELD
Producing Formation: NA
Elevation: Ground: 2064 Kelly Bushing: 2065
Total Depth: 4360 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 349 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: 22000 ppm Fluid volume: 240 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: L. D. DRILLING, INC.
Lease Name: DAVIS RANCH OWWD License #: 6039
Quarter NW Sec. 14 Twp. 21 S. R. 12 ☐ East ☐ West
County: STAFFORD Permit #: D30736

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

- ☐ **Letter of Confidentiality Received**
  Date:
- ☐ **Confidential Release Date:**
- ☑ **Wireline Log Received**
- ☑ **Geologist Report Received**
- ☐ **UIC Distribution**

ALT ☐ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 03/24/2011

Side Two

1052754

Operator Name: L. D. Drilling, Inc. Lease Name: JANE Well #: 1-4

Sec. 4 Twp. 23 S. R. 17 ☐ East ☐ West County: Pawnee

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

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

Samples Sent to Geological Survey ☐ Yes ☐ No

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

List All E. Logs Run:

DUAL COMPENSATED POROSITY LOG
DUAL INDUCTION LOG

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

Name	Top	Datum
Attached	Attached	Attached

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	349	A-CON	175	3%CC,1/4#CF
SURFACE - CONT	12.25	8.625	24	349	COMMON	200	2%GEL,3%CC,1/4#CF

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	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

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

PRODUCTION INTERVAL:
_____
_____

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

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JANE 1-4
Doc ID	1052754

Tops

Name	Top	Datum
ANHYDRITE	1098	+967
TOPEKA	3230	-1165
HEEBNER	3606	-1541
BROWN LIME	3712	-1647
LANSING	3719	-1654
BASE KANSAS CITY	4006	-1941
CHEROKEE	4136	-2071
CONG-CHERT	4169	-2104
VIOLA	4244	-2179

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 03616 A

4-23S-17W

DATE TICKET NO.

DATE OF JOB 2-25-11 DISTRICT Pratt, Kansas	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER L.D. Drilling, Incorporated	LEASE Jane WELL NO. 1-4
ADDRESS	COUNTY Pawnee STATE Kansas
CITY STATE	SERVICE CREW C. Messick; M. Mattal; M. McGraw
AUTHORIZED BY	JOB TYPE: C.N.W. - Surface

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
19,870	1				
19,903-19,905	1				
19,826-19,860	1				

	DATE		TIME
TRUCK CALLED	2-25-11	AM PM	5:00
ARRIVED AT JOB		AM PM	7:30
START OPERATION		AM PM	11:30
FINISH OPERATION		AM PM	12:30
RELEASED		AM PM	1:00
MILES FROM STATION TO WELL			60

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

	ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
P	CP101	A Con Blend Cement	sk	175		$ 3,150 00
P	CP100	Common Cement	sk	200		$ 3,200 00
P	CC102	Cellflake	lb	94		$ 347 80
P	CC109	Calcium Chloride	lb	1,059		$ 1,111 95
P	CC200	Cement Gel	lb	376		$ 94 00
P	CF153	Wooden Plug, 8 5/8"	ea	1		$ 160 00
P	E100	Pickup Mileage	mi	60		$ 255 00
P	E101	Heavy Equipment Mileage	mi	120		$ 840 00
P	E113	Bulk Delivery	tm	1,059		$ 1,694 40
P	CE200	Cement Pump: 0 Feet To 500 Feet	hrs	4		$ 1,000 00
P	CE240	Blending and Mixing Service	sk	375		$ 525 00
P	CE504	Plug Container	Job	1		$ 250 00
P	S003	Service Supervisor	Job	1		$ 175 00

SUB TOTAL $ 9,602 36

DLS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Lawrence R. Messick

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC energy services, L.P.

TREATMENT REPORT

Customer: L.D. Drilling, Incorporated	Lease No.	Date: 2-25-11	
Lease: Jane	Well # 1-4		
Field Order # 3616	Station: Pratt, Kansas	Casing: 8 5/8" 24Lb.	Depth: 360 Feet
County: Pawnee	State: Kansas		
Type Job: C.N.W. - Surface	Formation	Legal Description: T-23S-17W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 8 5/8" 24Lb./Ft.	Tubing Size	Shots/Ft	175 sacks A con with 3% Calcium Chloride, .25 Lb/sk. cellflake	Acid	RATE	PRESS	ISIP
Depth: 360 Feet	Depth	From	To 12.6 Lb./Gal., 11.89 Gal./sk., 2.12 CU.FT./sk.	Pre Pad	Max		5 Min.
Volume: 22.9 Bbl	Volume	From 200 sacks	To common with 2% Gel, 3% Calcium Chloride, .25 Lb/sk. Cellflake	Pad	Min		10 Min.
Max Press: 400	Max Press	From	to 5 Lb./Gal., 6.13 Gal./sk.,	Frac	Avg 1.34 CU. FT./sk.		15 Min.
Well Connection: Plug Container	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 345 Feet	Packer Depth	From	To	Flush 22 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative: Tim Nichols | Station Manager: David Scott | Treater: Clarence R. Messick

Service Units	19,870	19,903	19,905	19,926	19,860						
Driver Names	Messick	Mittal		McGraw							

Time A.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:30					Trucks on location and hold safety meeting.
10:15					Petromark Drilling start to run 8 Joints new 24Lb./Ft. 8 5/8" casing.
11:20					Casing in well. Circulate for 5 minutes.
11:30	350			5	Start Fresh Water Pre-Flush.
	350		10	5	Start mixing 175 sacks A con cement.
	200		76	5	Start mixing 200 sacks common cement.
	-0-		123		Stop pumping. Shut in well. ~~Hitch~~ Release wooden plug. Open well.
11:53	100			5	Start Fresh Water Displacement.
12:00	400		22		Plug down. Shut in well.
					Circulated 15 sacks cement to the pit.
					Wash up pump truck.
12:45					Job Complete.
					Thank You.
					Clarence, Mike, Mike.

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 03711 A

DATE TICKET NO.

DATE OF JOB 3-5-11 DISTRICT Pratt	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER L.D. Drilling	LEASE Jane WELL NO. 1-4
ADDRESS	COUNTY Pawnee STATE KS
CITY STATE	SERVICE CREW Orlando, Mathal, Fenwick
AUTHORIZED BY	JOB TYPE: CNW-PTA

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
27783	1				
19903-19905	1				
19959-21010	1				

	DATE	AM/PM	TIME
TRUCK CALLED	3-4-11	AM PM	6:00
ARRIVED AT JOB	3-4-11	AM PM	8:30
START OPERATION	3-4-11	AM PM	11:30
FINISH OPERATION	3-5-11	AM PM	12:30
RELEASED	3-5-11	AM PM	1:00
MILES FROM STATION TO WELL			60

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP103	60/40 Poz	SK	210		2520 00
CC200	Cement Gel	Lb	362		90 50
E100	Pickup mileage	mi	60		255 00
E101	Heavy Equipment mileage	mi	120		840 00
E113	Bulk Delivery	Tm	543		868 80
CE202	Depth Charge 1001-2000'	ea	1		1500 00
CE240	Cement Service Charge	SK	210		294 00
5003	Service Supervisor	ea	1		175 00

SUB TOTAL DLS 4907 48

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Steve Orlando

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene TX

BASIC energy services, L.P.

TREATMENT REPORT

Customer	L.D. Drilling	Lease No.		Date	3-4-11
Lease	Jane	Well #	1-4		
Field Order #	3711	Station	Pratt	Casing	Depth
County	Pawnee	State	KS		
Type Job	CNW-PTA	Formation		Legal Description	4-23-17

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid 210 sks 60/40 2%	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad 470 bbl	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	L.D. Davis	Station Manager	Dave Scott	Treater	Steve Orlando
Service Units	27283	19903/19905	19959/21010		
Driver Names	Orlando	M. Mathel	Sandwick		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:30 am					On location - Safety Meeting
			1st Plug @		1110' w/50sks 60/40 poz
			15	4	H2O Ahead
			12	4	mix 50sks cmt @ 13.8#/Gal
			2	4	H2O Displacement
			4	4	mud Displacement
			2nd Plug @		600' w/100 sks
			10	4	H2O Ahead
			14	4	mix 100sks @ 13.8#/Gal
			1.5	4	H2O Displacement
			3rd plug @		390' w/50sks
			10	4	H2O Ahead
			12	4	mix 50sks @ 13.8#/Gal
			1	4	H2O Displacement
			4th plug @		60' w/10sks
			4		mix 20sks cmt @ 13.8#/Gal
			6		Plug RH w/30sks

Taylor Printing, Inc. 620-672-3656

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: JANE 1-4

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S4/23S/17W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL

Job Number: D913

Test Unit:

Start Date: 2011/03/02

Start Time: 23:00:00

End Date: 2011/03/03

End Time: 07:20:00

Report Date: 2011/03/03

Prepared By: JOHN RIEDL

Qualified By: KIM SHOEMAKER

Remarks:

RECOVERY: 250' VERY SLIGHTLY OIL CUT WATERY MUD
600' SLIGHTLY MUD CUT WATER

DIAMOND TESTING

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

ON 23:00 03/02/11
OFF 13:05 03/03/11

DRILL-STEM TEST TICKET

STCJAne1-4DST1

Company L D DRILLING INC — Lease & Well No. JANE 1-4

Contractor PETROMARK RIG 2 — Charge to L D DRILLING INC

Elevation 2065 K.B — Formation CONG CHERT — Effective Pay ____ Ft. — Ticket No. D913

Date 3/03/11 — Sec. 4 — Twp. 23 S — Range 17 W — County PAWNEE — State KANSAS

Test Approved By KIM SHOEMAKER — Diamond Representative JOHN C. RIEDL

Formation Test No. 1 — Interval Tested from 4116 ft. to 4200 ft. — Total Depth 4200 ft.

Packer Depth 4111 ft. — Size 6 3/4 in. — Packer Depth 4298 ft. — Size 6 3/4 in.

Packer Depth 4116 ft. — Size 6 3/4 in. — Packer Depth ____ ft. — Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4119 ft. — Recorder Number 30046 — Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 4197 ft. — Recorder Number 11017 — Cap. 4000 P.S.I.

Below Straddle Recorder Depth ____ ft. — Recorder Number ____ — Cap. ____ P.S.I.

Mud Type CHEMICAL — Viscosity 52 — Drill Collar Length 120 ft. — I.D. 2 1/4 in.

Weight 9.2 — Water Loss 9.2 cc. — Weight Pipe Length 0 ft. — I.D. 2 7/8 in.

Chlorides 6800 P.P.M. — Drill Pipe Length 3970 ft. — I.D. 3 1/2 in.

Jars: Make BOWEN — Serial Number #2 — Test Tool Length 26 ft. — Tool Size 3 1/2-IF in.

Did Well Flow? NO — Reversed Out NO — Anchor Length 84 ft. — Size 4 1/2-FH in.

Main Hole Size 7 7/8 — Tool Joint Size 4 1/2 XH in. — Surface Choke Size 1 in. — Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG (B.O.B 1 MINUTE) NO BB

2nd Open: FAIR (4") NO BB

Recovered 250 ft. of VSLOCWM (1%OIL 20%WATER 79%MUD)

Recovered 600 ft. of MCW (10%MUD 90%WATER) CHLORIDES 60,000Ppm

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: TOTAL FLUID RECOVERY:850(730' IN DRILL PIPE, 120'DRILL COLLARS))

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 1:00 A.M. A.M. P.M. — Time Started Off Bottom 4:00 A.M. A.M. P.M. — Maximum Temperature 115

Initial Hydrostatic Pressure ..... (A) 2034 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 168 P.S.I. to (C) 389 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 406 P.S.I.

Final Flow Period ..... Minutes 45 (E) 399 P.S.I. to (F) 407 P.S.I.

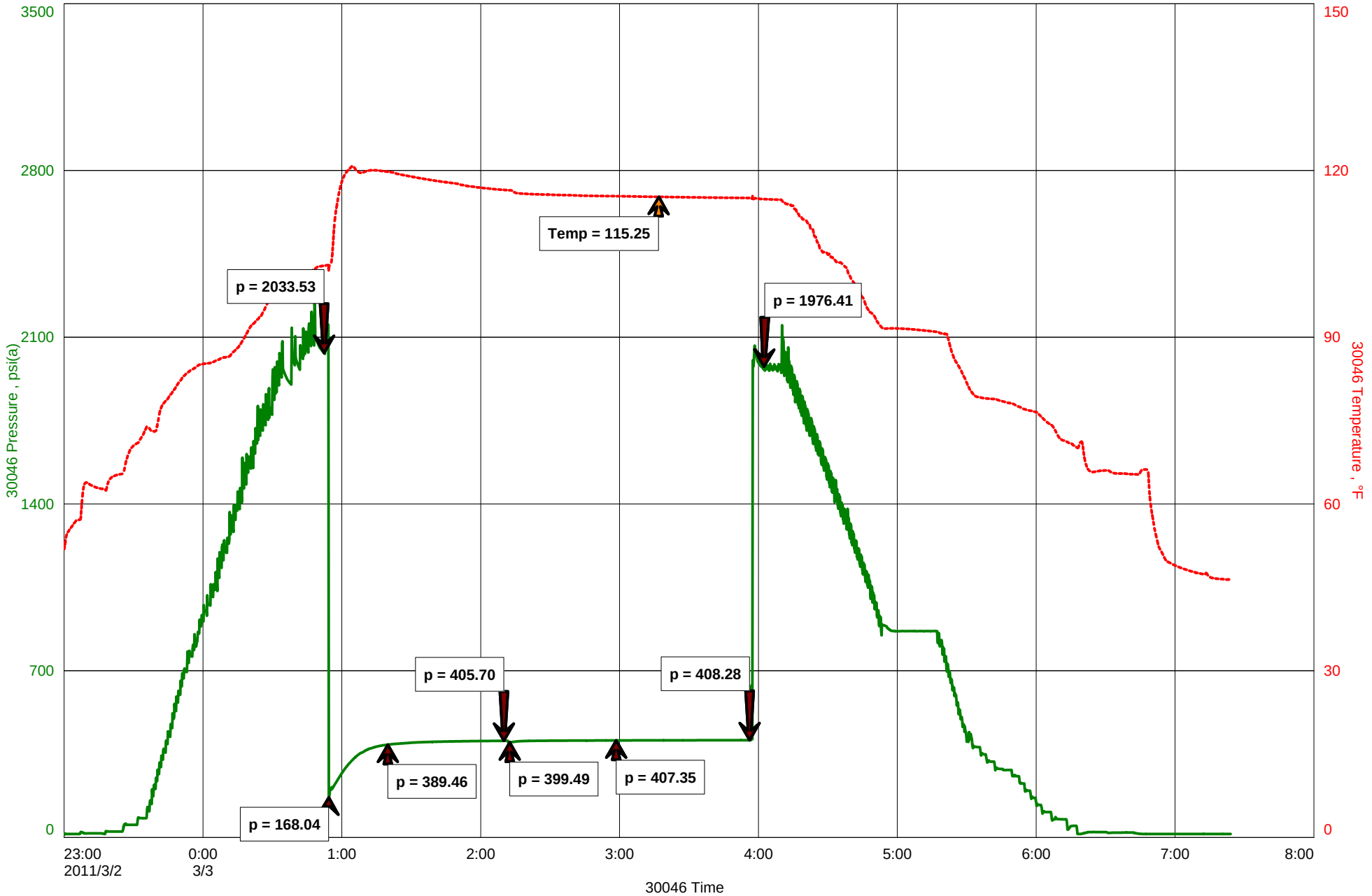
Final Closed In Period ..... Minutes 60 (G) 408 P.S.I.

Final Hydrostatic Pressure ..... (H) 1976 P.S.I.

L D DRILLING INC
Start Test Date: 2011/03/02
Final Test Date: 2011/03/03

JANE 1-4

JANE 1-4
Formation: CONG CHERT
Job Number: D913



GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: JANE 1-4

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S4/23S/17W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL

Job Number: D914

Test Unit:

Start Date: 2011/03/03

Start Time: 18:00:00

End Date: 2011/03/04

End Time: 01:10:00

Report Date: 2011/03/04

Prepared By: JOHN RIEDL

Qualified By: KIM SHOEMAKER

Remarks:

RECOVERY: 140' SLIGHTLY AS CUT MUD
60' VERY SLIGHTLY OIL CUT GASSY MUD

DIAMOND TESTING

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

ON 18:00 03/03/11
OFF 01:10 03/04/11

DRILL-STEM TEST TICKET

STCJAne1-4DST2

Company L D DRILLING INC — Lease & Well No. JANE 1-4

Contractor PETROMARK RIG 2 — Charge to L D DRILLING INC

Elevation 2065 K.B — Formation VIOLA — Effective Pay ____ Ft. — Ticket No. D914

Date 3/03/11 — Sec. 4 — Twp. 23 S — Range 17 W — County PAWNEE — State KANSAS

Test Approved By KIM SHOEMAKER — Diamond Representative JOHN C. RIEDL

Formation Test No. 2 — Interval Tested from 4238 ft. to 4270 ft. — Total Depth 4270 ft.

Packer Depth 4233 ft. — Size 6 3/4 in. — Packer Depth ____ ft. — Size ____ in.

Packer Depth 4238 ft. — Size 6 3/4 in. — Packer Depth ____ ft. — Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4241 ft. — Recorder Number 30046 — Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 4267 ft. — Recorder Number 11073 — Cap. 4000 P.S.I.

Below Straddle Recorder Depth ____ ft. — Recorder Number ____ — Cap. ____ P.S.I.

Mud Type CHEMICAL — Viscosity 52 — Drill Collar Length 120 ft. — I.D. 2 1/4 in.

Weight 9.2 — Water Loss 16 cc. — Weight Pipe Length 0 ft. — I.D. 2 7/8 in.

Chlorides 22,000 P.P.M. — Drill Pipe Length 4126 ft. — I.D. 3 1/2 in.

Jars: Make BOWEN — Serial Number #2 — Test Tool Length 26 ft. — Tool Size 3 1/2-IF in.

Did Well Flow? NO — Reversed Out NO — Anchor Length 32 ft. — Size 4 1/2-FH in.

Main Hole Size 7 7/8 — Tool Joint Size 4 1/2 XH in. — Surface Choke Size 1 in. — Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG (B.O.B 25 MINUTES) — NO BB

2nd Open: STRONG (B.O.B 1 MINUTE) — FAIR BB

Recovered 140 ft. of SLGCM (5%GAS 95%MUD)

Recovered 60 ft. of SLOCGM (5%OIL 30%GAS 65%MUD)

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: TOTAL FLUID RECOVERY: 200' (80' IN DRILL PIPE,120 'DRILL COLLARS)

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 8:00 P.M A.M. P.M. — Time Started Off Bottom 11:00 P.M A.M. P.M. — Maximum Temperature 115

Initial Hydrostatic Pressure ..... (A) 2057 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 106 P.S.I. to (C) 107 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 823 P.S.I.

Final Flow Period ..... Minutes 45 (E) 116 P.S.I. to (F) 120 P.S.I.

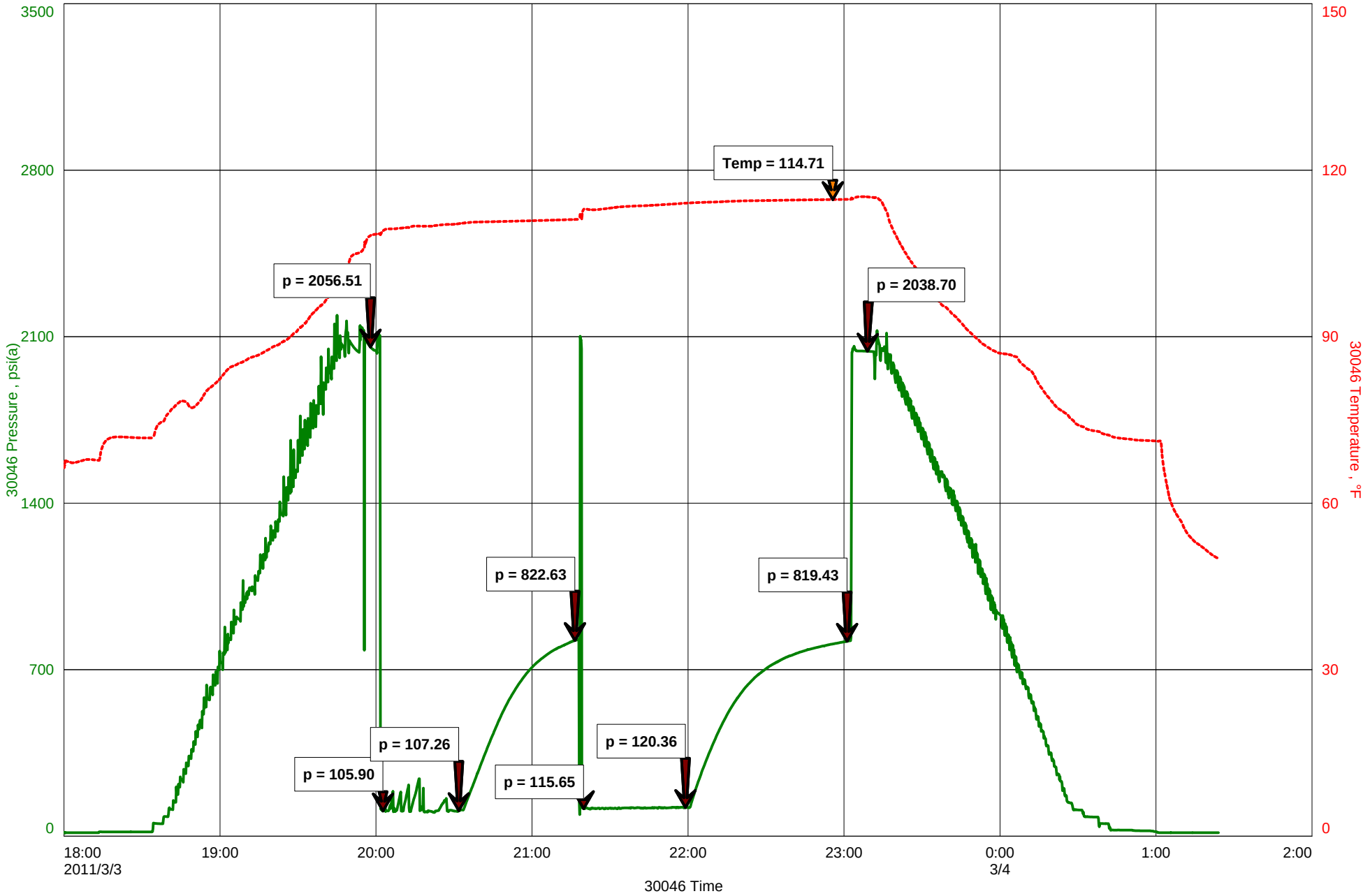
Final Closed In Period ..... Minutes 60 (G) 819 P.S.I.

Final Hydrostatic Pressure ..... (H) 2039 P.S.I.

L D DRILLING INC
Start Test Date: 2011/03/03
Final Test Date: 2011/03/04

JANE 1-4

JANE 1-4
Formation: VIOLA
Job Number: D914



KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE #1-4 JANE

FIELD GARFIELD

LOCATION 1650' FSL & 1320' FWL

SEC 4 TWSP 23S RGE 17W

COUNTY PAWNEE STATE KANSAS

CONTRACTOR PETROMARK DRILLING RIG 2

SPUD 2-24-11 COMP 3-4-11

RTD 4360 LTD 4359

MUD UP 3350 TYPE MUD CHEMICAL

ELEVATIONS

KB 2065

DF

GL 2060

Measurements Are All From 2065 KB

CASING

SURFACE 8 5/8" @ 349'

PRODUCTION

ELECTRICAL SURVEYS

DUAL IND., DENS-N.

SAMPLES SAVED FROM 3400 TO 4360

DRILLING TIME KEPT FROM 3200 TO 4360

SAMPLES EXAMINED FROM 3400 TO 4360

GEOLOGICAL SUPERVISION FROM 3600 TO 4360

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1098 +967	1099 +966
TOPEKA	3230 - 1165	3233 - 1168
HEEBNER	3606 - 1541	3610 - 1545
BROWN LIME	3712 - 1647	3715 - 1650
LANSING	3719 - 1654	3721 - 1656
B/KC	4006 - 1941	4011 - 1946
CHEROKEE	4136 - 2071	4140 - 2075

API: 15-145-21635

SPUD 360'
1060'
2286'
2925'
3580'
1075'
1200'
1329'

LEGEND

Dolomite
Chert
Oolitic Lime
Limestone
Cherty Lm
Shale
Sandstone
Salt
Anhydrite

REMARKS

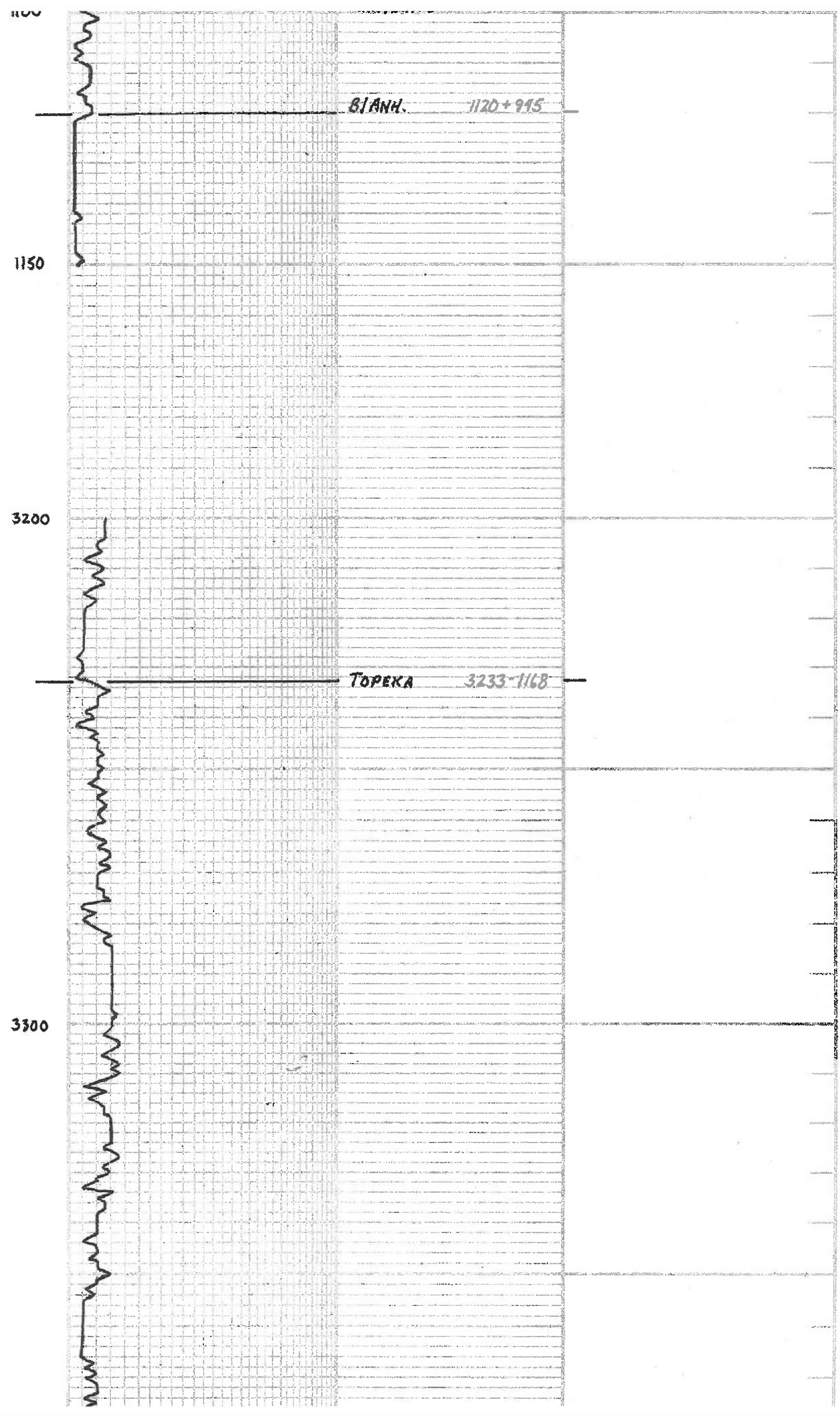
SAMPLE DESCRIPTIONS

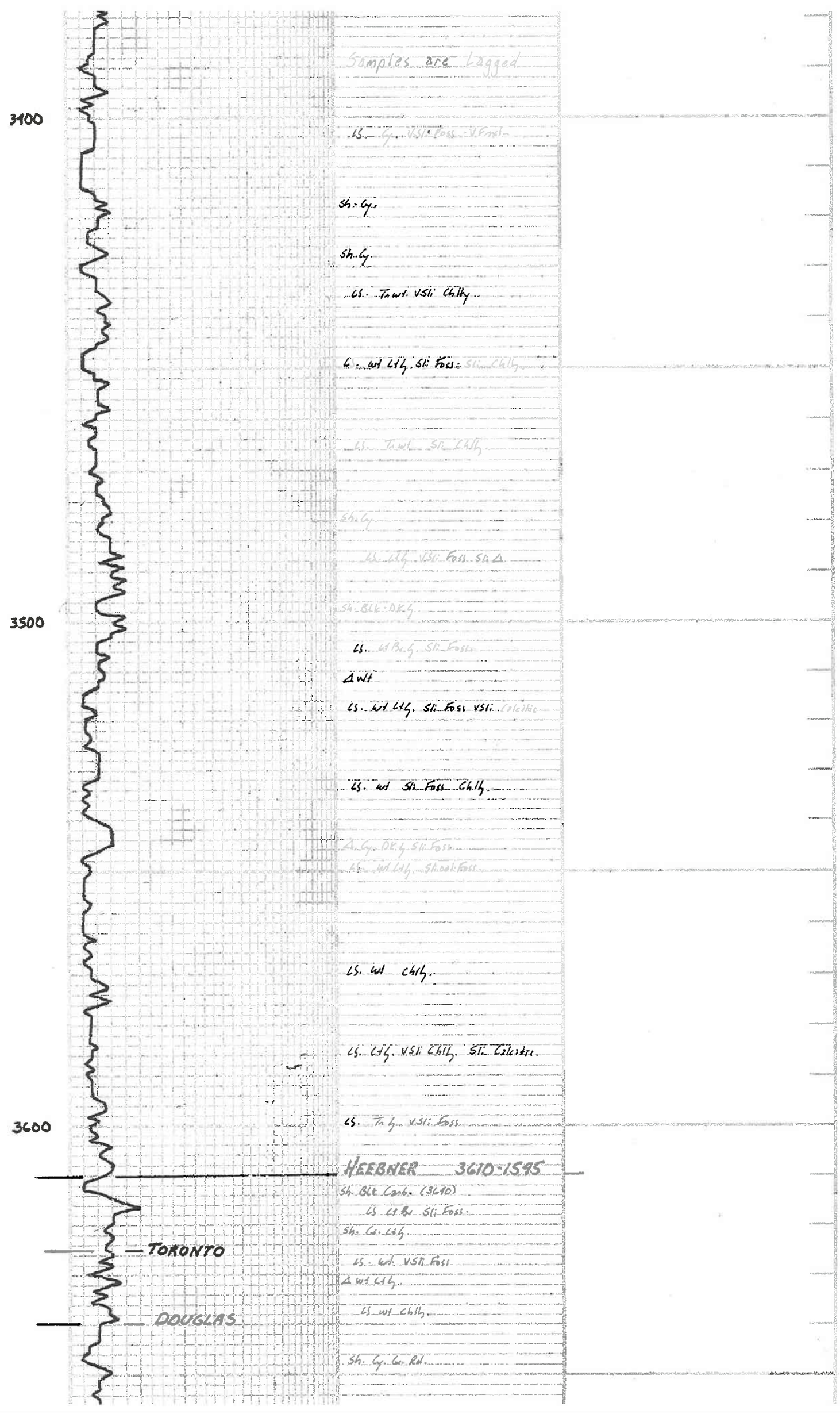
DRILLING TIME IN MINUTES PER FOOT

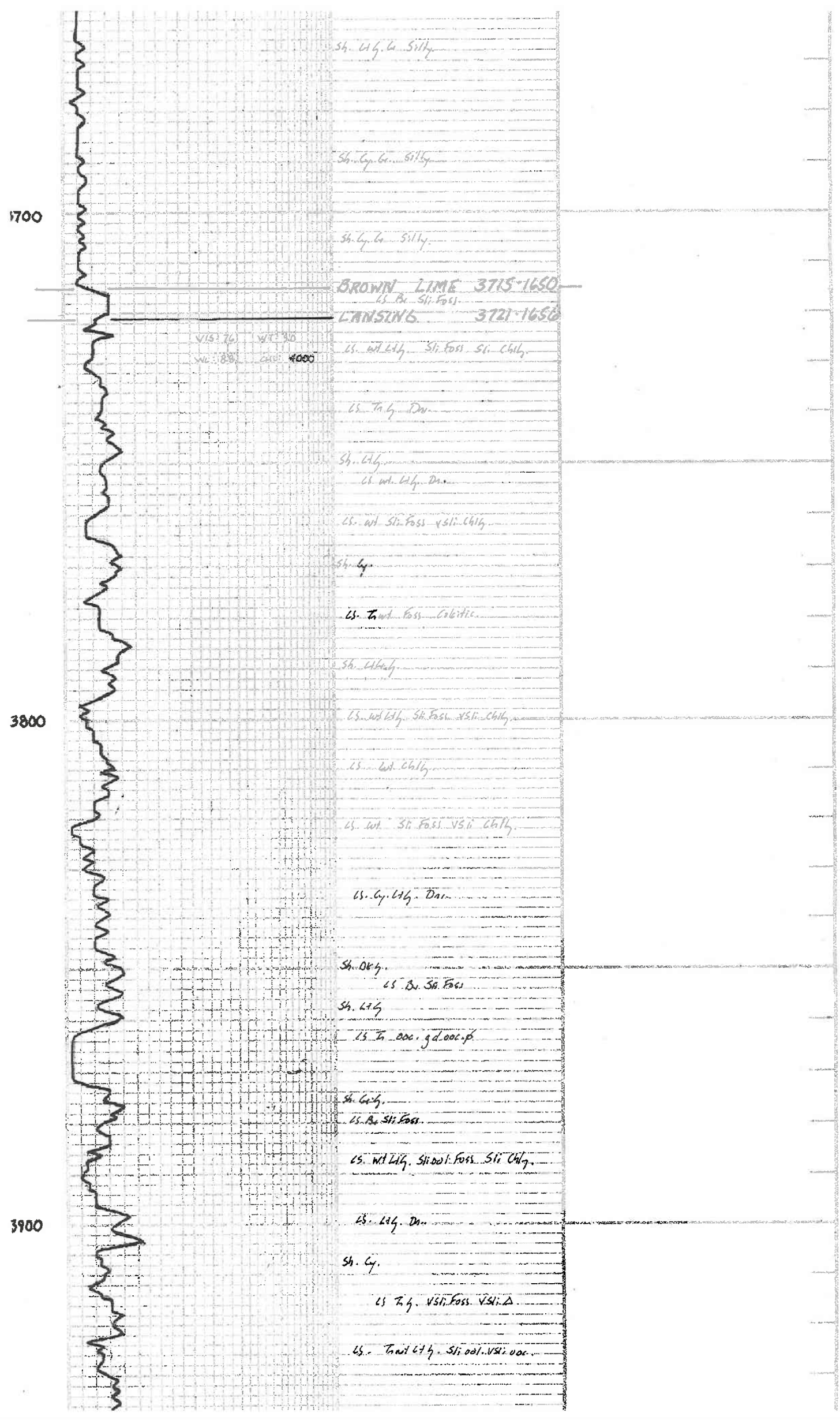
Rate of Penetration Increases

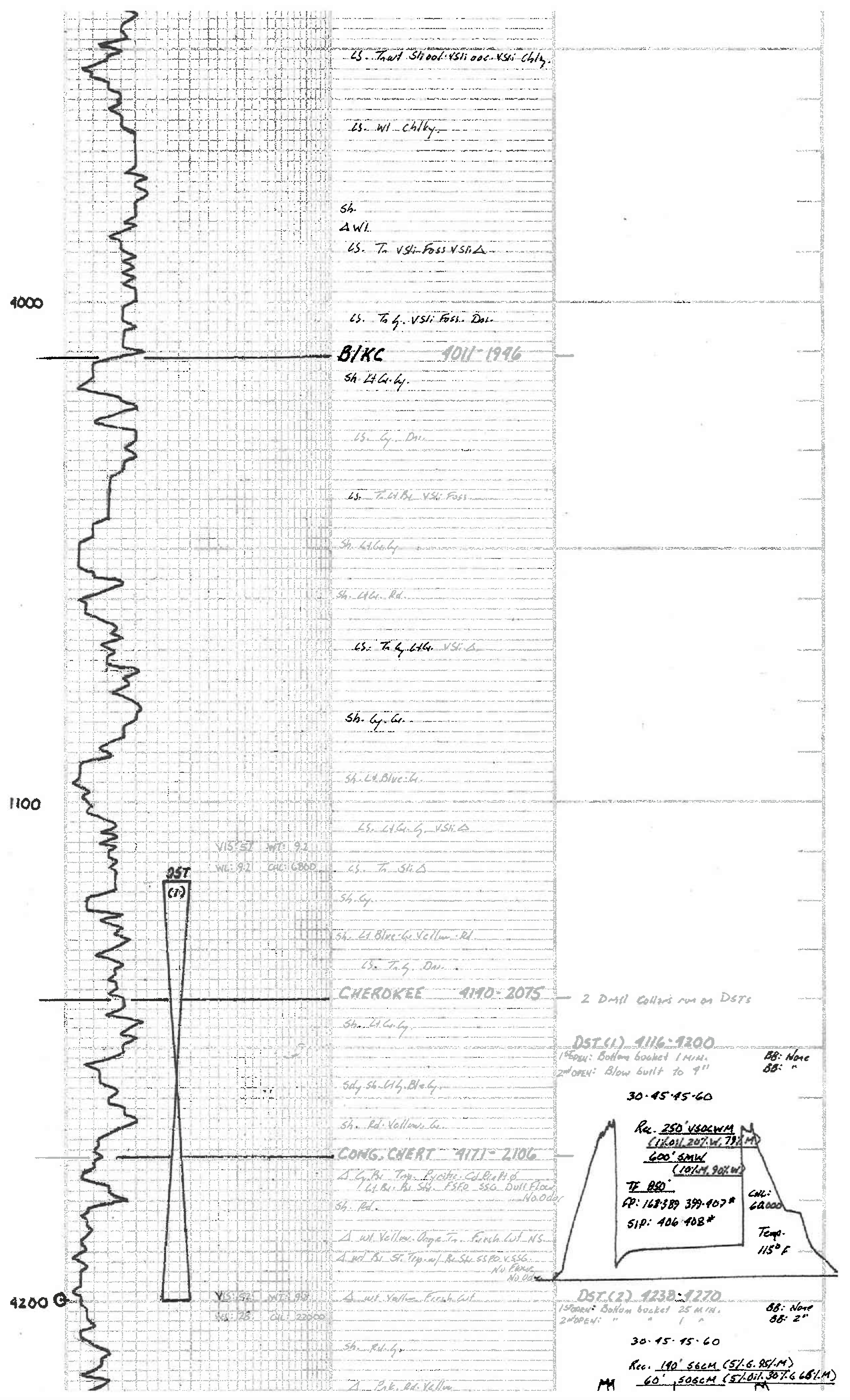
5" 10" 15" 20" 25"

DEPTH 1050

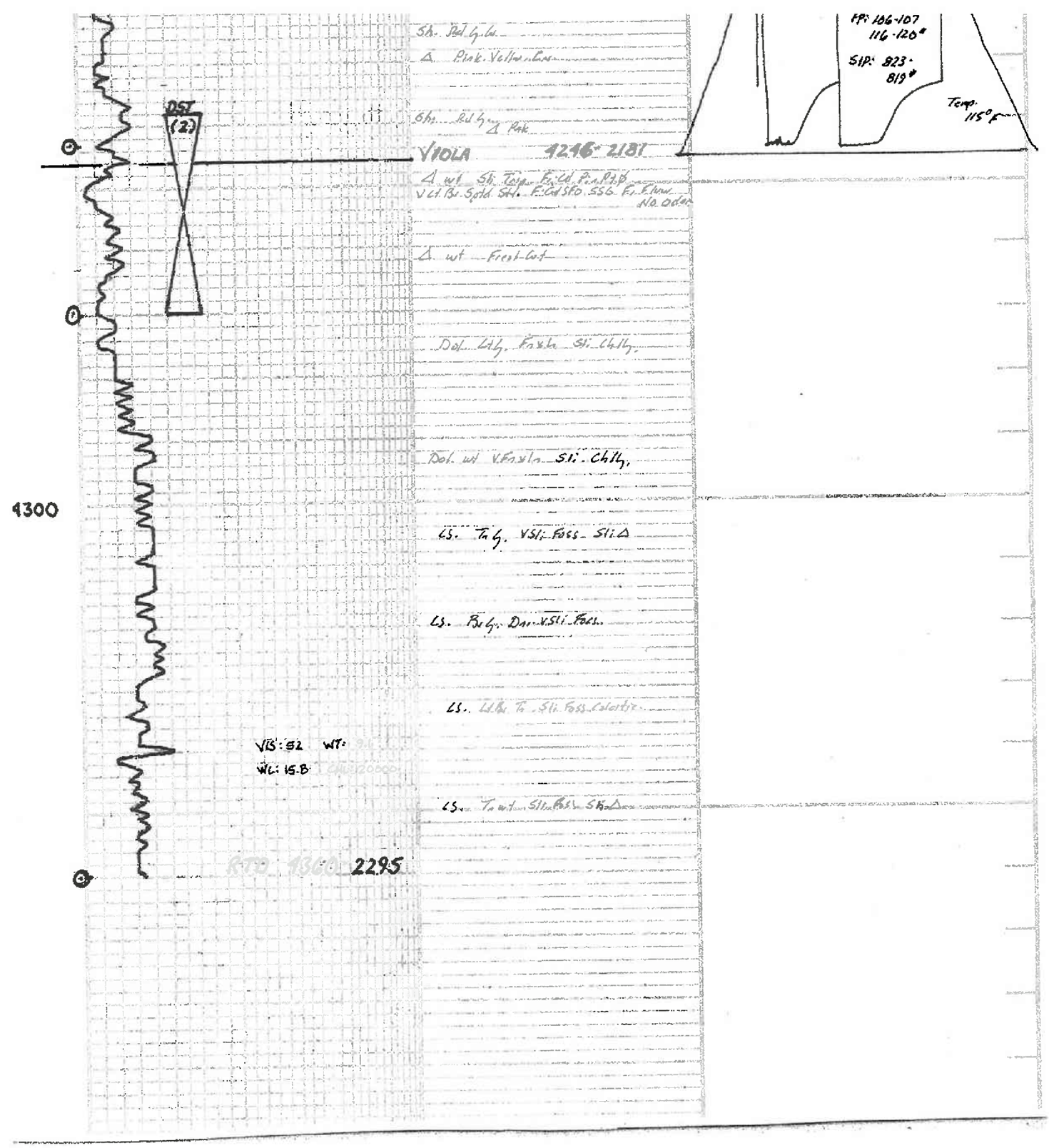

B/ANH. 1120+945
1150
3200
TOPEKA 3233-1168
3300


Samples are Lagged
3100
LS. Gy. V.Sli Foss. V.Frost
Sh. Gy.
Sh. Gy.
LS. Tr wt V.Sli Chalky
LS. wt Lt Gy. Sli Foss. Sli Chalky
LS. Tr wt Sli Chalky
Sh. Gy.
LS. Lt Gy. V.Sli Foss. Sli Δ
Sh. Blk: D.K.Gy.
3500
LS. wt Bu.Gy. Sli Foss.
Δ wt
LS. wt Lt Gy. Sli Foss. V.Sli. Calcitic
LS. wt Sli Foss Chalky
Δ Gy. D.K.Gy. Sli Foss
LS. wt Lt Gy. Sl.oolit Foss
LS. wt chalky.
LS. Lt Gy. V.Sli Chalky Sl. Calcitic
3600
LS. Tr Gy. V.Sli Foss
HEEBNER 3610-1595
Sh. Blk Carb. (3610)
LS Lt Br Sli Foss
Sh. Gy. Lt Gy
LS. wt V.Sli Foss
Δ wt Lt Gy.
LS wt Chalky
TORONTO
DOUGLAS
Sh. Gy. Gy. Rd


3700
3800
3900
Sh. Lt Gy. Lt Silty
Sh. Gy. Lt Silty
Sh. Gy. Lt Silty
BROWN LIME 3715-1650
Ls. Bu. Sli. Foss.
LANSING 3721-1656
VIS: 76 WT: 9.0
WL: 8.8 CHL: 4000
Ls. wt Lt Gy. Sli. Foss Sli. Chty.
Ls. Tn Gy. Dns.
Sh. Lt Gy.
Ls. wt. Lt Gy. Dns.
Ls. wt Sli. Foss vSli. Chty.
Sh. Gy.
Ls. Tn wt. Foss. Colitic
Sh. Lt Gy.
Ls. wt Lt Gy. Sli. Foss. vSli. Chty.
Ls. wt. Chty.
Ls. wt Sli. Foss. vSli. Chty.
Ls. Gy. Lt Gy. Dns.
Sh. Dk Gy.
Ls. Bu. Sli. Foss
Sh. Lt Gy
Ls. Tn. ooc. gd. ooc. p.
Sh. Gy Gy.
Ls. Bu. Sli. Foss.
Ls. wt Lt Gy. Sli. ool. Foss. Sli. Chty.
Ls. Lt Gy. Dns.
Sh. Gy.
Ls Tn Gy. vSli. Foss. vSli. Δ
Ls. Tn wt Lt Gy. Sli. ool. vSli. ooc.



LS. Tn wt. Sl. ool. VSli ooc. VSli Chlky.
LS. Wt. Chlky.
Sh.
AWL.
LS. Tn VSli Foss VSli △
4000
LS. Tn Gy. VSli Foss. Dns.
B/KC 4011 -1946
Sh. Lt. Gn. Gy.
LS. Gy. Dns.
LS. Tn Lt Bn. VSli Foss
Sh. Lt. Gn. Gy.
Sh. Lt. Gn. Rd.
LS. Tn Gy. Lt. Gn. VSli △
Sh. Gy. Gn.
Sh. Lt. Blue. Gn.
1100
LS. Lt. Gn. Gy. VSli △
VIS: 52 WT: 9.2
WL: 9.2 CHL: 6800
LS. Tn Sli △
DST (1)
Sh. Gy.
Sh. Lt. Blue Gn. Yellow. Rd.
LS. Tn Gy. Dns.
CHEROKEE 4110 -2075
2 Drill Collars run on DSTs
Sh. Lt. Gn. Gy.
DST (1) 4116-4200
1st OPEN: Bottom bucket 1 MIN.
2nd OPEN: Blow built to 4"
BB: None
BB: "
30·45·45·60
Sdy. Sh. Lt. Gy. Blu. Gy.
Sh. Rd. Yellow. Gn.
Rec. 250' VSOCWM (1% Oil, 20% W, 79% M)
600' SMW (10% M, 90% W)
TF 850'
FP: 168-389 399-407#
SIP: 406 408#
CHL: 62,000
Temp. 115° F
CONG. CHERT 4171 -2106
Sh. Rd.
No Odor
△ wt. Yellow. Tn Fresh Cut NS.
No Flow
No Odor
4200
VIS: 52 WT: 9.3
WL: 28 CHL: 22000
△ wt. Yellow Fresh Cut
DST (2) 4238-4270
1st OPEN: Bottom bucket 25 MIN.
2nd OPEN: " " 1 "
BB: None
BB: 2"
30·45·45·60
Sh. Rd. Gy.
Rec. 190' SGCM (5% G, 95% M)
60' SOGCM (5% Oil, 30% G, 65% M)


DST
(2)
4300
Sh. Red Gy. Gn.
Δ Pink. Yellow. Gn.
Sh. Red Gy. Δ Pink
VIOLA 4216-2181
Δ wt Sli. Tan Fi. Gd. P. Ind. P
VCl Bl. Spld Sli. Fi. Gd Sfo. SSG. Fi. Hvy
No. Odor
Δ wt Frost-Cut
Dol. Lt Gy. Fr. Xln Sli. Chty.
Dol. wl V. Fr. Xln Sli. Chty.
LS. Tn Gy. VSli. Foss. Sli. Δ
LS. Bf Gy. Dns. V. Sli. Foss.
LS. Lt Bf. Tn. Sli. Foss. Calcite
LS. Tn wt. Sli. Foss. Sli. Δ
VIS: 52 WT:
WL: 15.8
RTD 4300 2295
FP: 106-107
116-120#
SIP: 823-
819#
Temp.
115°F