



KANSAS CORPORATION COMMISSION 1068144
OIL & GAS CONSERVATION DIVISION

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 # 5263
Name: Midwestern Exploration Company
Address 1: 3500 S BOULEVARD STE 2B
Address 2: _____
City: EDMOND State: OK Zip: 73013 + 5487
Contact Person: Dale J. Lollar, President
Phone: (405) 340-4300
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tom Williams
Purchaser: OneOK

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #: _____

<u>08/02/2011</u>	<u>08/11/2011</u>	<u>10/27/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-189-22772-00-00

Spot Description: _____

N2 SW NW NW Sec. 7 Twp. 35 S. R. 35 East West
830 Feet from North / South Line of Section
330 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Stevens

Lease Name: James Well #: 2-7

Field Name: Gooch

Producing Formation: Upper Chester

Elevation: Ground: 3011 Kelly Bushing: 3021

Total Depth: 6800 Plug Back Total Depth: 6552

Amount of Surface Pipe Set and Cemented at: 1711 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: 2800 ppm Fluid volume: 1400 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Garris Date: 11/21/2011



1068144

Operator Name: Midwestern Exploration Company Lease Name: James Well #: 2-7
 Sec. 7 Twp. 35 S. R. 35 East West County: Stevens

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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Microlog/GR Dual Induction/GR/SP Compensated Neutron/Density/GR	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	6295-6300	Premium	150	Cement 94 sx in perms

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

TUBING RECORD: Size: <u>2 3/8</u> Set At: <u>6330</u> Packer At: <u>N/A</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>10/27/2011</u>	Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>0</u> Gas Mcf <u>150</u> Water Bbls. <u>0</u> Gas-Oil Ratio <u>0</u> Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>6348-6354'</u>
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Form	ACO1 - Well Completion
Operator	Midwestern Exploration Company
Well Name	James 2-7
Doc ID	1068144

Tops

Name	Top	Datum
Base/Heebner Shale	4336'	(-1315')
Toronto Lime	4345'	(-1324')
Marmaton	5219'	(-2198')
Cherokee Shale	5592'	(-2571')
Morrow Shale	5940'	(-2919')
Mississippian Chester	6353'	(-3332')
Ste. Genevieve	6640'	(-3619')
St. Louis	6720'	(-3699')

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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	6348-6354'	1200 gal 15% FENE acid	
4	6295-6300'	2000 gal 7 1/2 NEFE Acid	
6	6348-6354'	4000 gal 15% NEFE Acid	
	6348-6354'	Acid Frac with 17500 gal 40 Q N2 Foam	
		Acid & 20,000 gal 40 Q N2 Foam gel, 477	
		total bbls fluid with 378,000 scf N2	

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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	65	40	Grout	50	
Surface	12.25	8.625	24	1711	Class A Con	400	2% CC
Surface	12.25	8.625	24	1711	Premium	250	
Production	7.875	4.5	10.5	6600	Class AA	150	

ALLIED CEMENTING CO., LLC. 036528

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
LIBERAL, KS

DATE <u>8-12-11</u>	SEC <u>7</u>	DWP. <u>35</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30 Am</u>	JOB FINISH <u>8:30 Pm</u>
LEASE <u>JAMES</u>		WELL # <u>2-7</u>	LOCATION <u>Liberal, KS Wm 2nd ST</u>		COUNTY	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>at CR 22 S + E 1/2</u>				

CONTRACTOR <u>Duke & Co</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>4 1/2 Long String</u>	
HOLE SIZE <u>7 1/2"</u> T.D. <u>6800</u>	CEMENT AMOUNT ORDERED <u>100A</u>
CASING SIZE <u>4 1/2 10.5"</u> DEPTH <u>6603'</u>	<u>150 SK ASC. 5" OOK SEAL</u>
TUBING SIZE DEPTH	<u>5% F3/60</u>
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>A 100SK @ 16²⁵ 1625⁰⁰</u>
MEAS. LINE SHOE JOINT <u>42.18'</u>	POZMIX @
CEMENT LEFT IN CSG. <u>42.18'</u>	GEL @
PERFS.	CHLORIDE @
DISPLACEMENT <u>104.3 BBL</u>	ASC <u>150 SK @ 21²⁵ 3187⁵⁰</u>
EQUIPMENT	<u>GILSONK 750LB @ .89 667⁵⁰</u>
PUMP TRUCK CEMENTER <u>BOB</u>	<u>Mud Flush 500gal @ 1.27 635⁰⁰</u>
# <u>372</u> HELPER <u>CEASAR</u>	<u>FL-160 71LBS @ 17⁰⁰ 1221²⁰</u>
BULK TRUCK	
# <u>457-25</u> DRIVER <u>RUBIN</u>	
BULK TRUCK	
# DRIVER	HANDLING <u>207 @ 3.25 660⁰⁰</u>
	MILEAGE <u>SK/mi x .11 min 344⁰⁰</u>
	TOTAL <u>8286²⁵</u>

REMARKS:

Thank You

CHARGE TO: Midwestern Exp
STREET 3500 S Blvd Ste 2 B
CITY Edmond STATE OKLA ZIP 73013

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Billy Daugherty
SIGNATURE Billy Daugherty

SERVICE

DEPTH OF JOB	<u>6603'</u>
PUMP TRUCK CHARGE	<u>3175⁰⁰</u>
EXTRA FOOTAGE @	
MILEAGE <u>20</u> @ <u>7⁰⁰</u>	<u>140⁰⁰</u>
MANIFOLD + Head @ <u>4⁰⁰</u>	<u>200⁰⁰</u>
LT UEL mi @	<u>80⁰⁰</u>
TOTAL	<u>3595⁰⁰</u>

PLUG & FLOAT EQUIPMENT

<u>4 1/2</u>	
<u>10- CENTRALizers @ 41</u>	<u>410⁰⁰</u>
<u>AFU SHOE @</u>	<u>327⁰⁰</u>
<u>LATCH DOWN @</u>	<u>233⁰⁰</u>
<u>BASKET @</u>	<u>270⁰⁰</u>
TOTAL	<u>1340⁰⁰</u>

SALES TAX (If Any) _____

TOTAL CHARGES 13185⁹⁵

DISCOUNT 1912.39 IF PAID IN 30 DAYS

11,273.56

MIDWESTERN EXPLORATION COMPANY

James #2-7

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

Well Name: James #2-7
Location: Section 7-T35S-R35W
License Number: API 15-189-22772
Spud Date: 8/2/2011
Surface Coordinates: 830' FNL & 330' FWL

Region: Stevens Co, KS
Drilling Completed: 8/11/2011

Bottom Hole Coordinates: 830' FNL & 330' FWL
Ground Elevation (ft): 3,009'
Logged Interval (ft): 4,175' To: 6,800'
Formation: Mississippian St. Louis
Type of Drilling Fluid: Chemical

K.B. Elevation (ft): 3,021'
Total Depth (ft): 6,800'

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

OPERATOR

Company: Midwestern Exploration Company
Address: 3500 S. Boulevard, Suite #2B
Edmond, OK 73013

GEOLOGIST

Name: Thomas M. Williams
Company: Petroleum Geologist
Address: Wichita, KS

CORE

Contractor:
Core #:
Formation:
Core Interval: From: Cut:
To: Recovered:
Bit type:
Size:
Coring Time:

Formation Tops

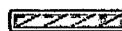


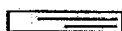
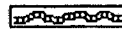
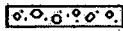

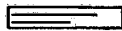
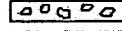
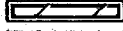



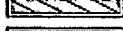

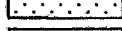
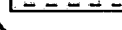
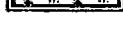
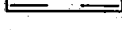
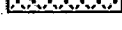
	Sample Top	E-Log Top
Oread Lime	4261 (-1240)	
Heebner Shale	4327 (-1306)	
Base/Heebner Sh	4336 (-1315)	
Toronto Lime	4345 (-1324)	
Lansing	4450 (-1429)	
Kansas City	4784 (-1763)	
Marmaton	5219 (-2198)	
Cherokee Sh	5592 (-2571)	
Atoka Lm	5774 (-2753)	
L. Atoka Lm	5903 (-2882)	
Morrow Sh	5940 (-2919)	
L. Morrow Lm	6284 (-3263)	
Chester 'C' Lm	6353 (-3332)	
Chester 'B' Lm	6413 (-3392)	
Chester 'A' Lm	6507 (-3486)	
Ste. Genevieve	6640 (-3619)	
St. Louis	6720 (-3699)	

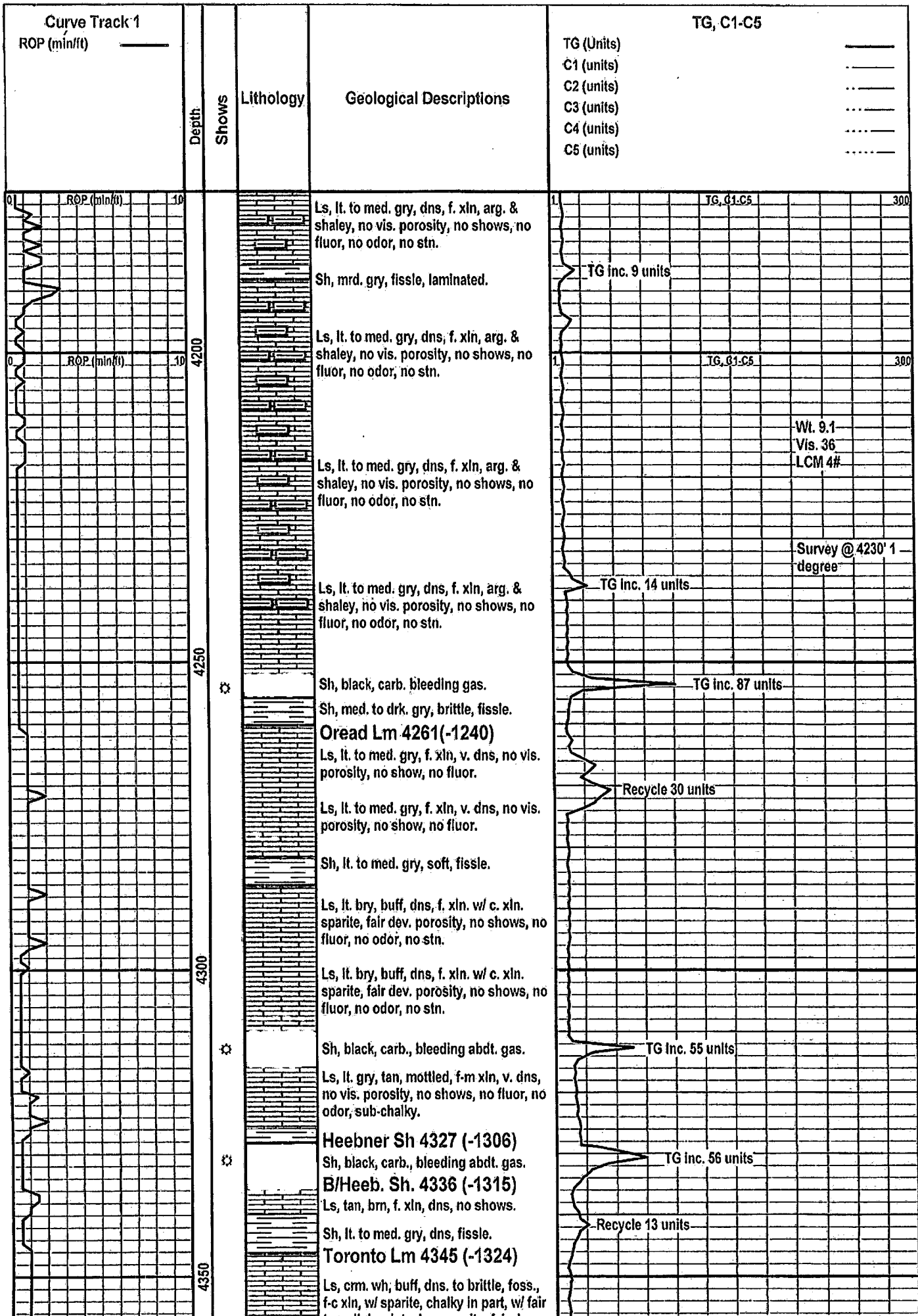
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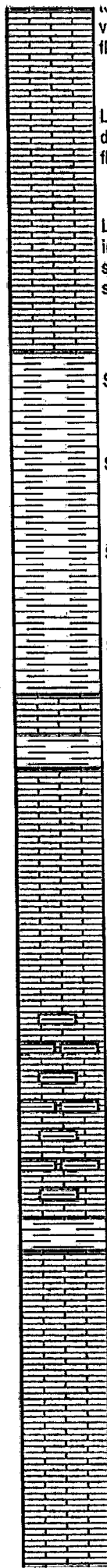
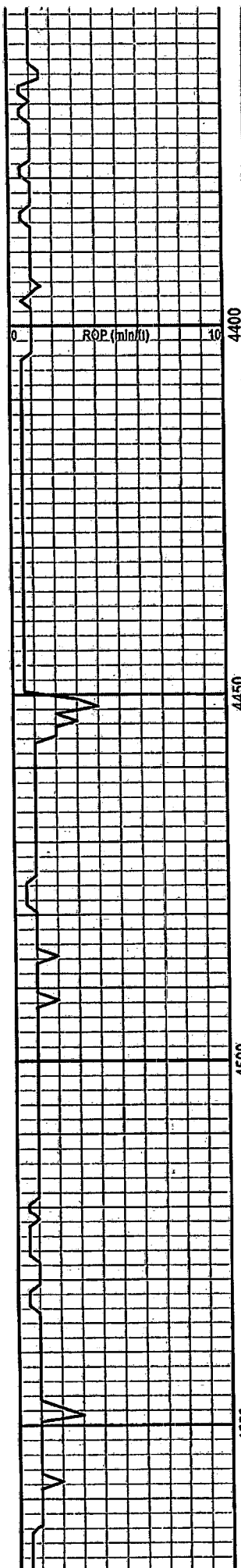
None

Comments

ROCK TYPES

	Anhy		Carb.sh		Lmst		Shcol
	Bent		Congl		Meta		Shgy
	Brec		Dol		Mrlst		Sltst
	Cht		Gyp		Salt		Ss
	Clyst		Igne		Shale		Till





to tan dev. int. xln porosity; tan dev. vug. porosity, no shows, dull chalky fluor, no odor, no staining.

Ls, buff, lt. gry, tan, v. dns, f. xln, poorly dev. int. xln. porosity, no shows, no fluor, no odor, no stn.

Ls, buff, lt. gry, tan, v. dns, f. xln, oolitic in part, poorly dev. int. xln. porosity, no shows, dull yellow fluor, no odor, no staining.

Sh, med. gry, calcareous, fissle.

Sh, med. gry, calcareous, non-fiss.

Sh, med. gry, calcareous, fissle.

Sh, med. gry, calcareous, fissle.

Lansing 4450 (-1429)

Ls, buff, tan, f. xln, v. dns, no vis. porosity, no show, no fluor, no stn.

Sh, lt. to med. gry, dns, fissle.

Ls, buff, tan, f-m xln, foss., fair to well dev. int. xln, porosity, no shows, no fluor, no odor, no stn.

Ls, crm. wh, buff, tan, f-m xln, dns. to chalky, foss., oolitic, fair dev. int. xln, por., no show, no fluor, no stn.

Ls, crm. wh, buff, tan, f-m xln, dns. to chalky, foss., p-f dev. int. xln, porosity, no show, no fluor, no odor, no stn.

Ls, lt. to med. gry, dns, f. xln, arg., w/ abdt. gry shale, no vis. porosity, no shows, no fluor, no stain.

Ls, lt. to med. gry, dns, f. xln, arg., w/ abdt. gry shale, no vis. porosity, no shows, no fluor, no stain.

Sh, lt. to med. gry, dns, fissle.

Ls, buff, crm. wh, lt. gry-wh, dns, p. dev. int. xln. porosity, no show, no fluor, no odor, no staining.

Ls, buff, crm. wh, lt. gry-wh, dns, p. dev. int. xln. porosity, no show, no fluor, no odor, no staining.

Ls, buff, tan, brittle, m. xln. w/ c. xln. sparite. well dev. vug & int xln

TG, C1-C5

@ 4400'

300

Wt. 9.0

Vis. 37

W.L. 28

PH 8.5

Chl. 2,000

LCM 3#

Adjust baseline

Wt. 8.9

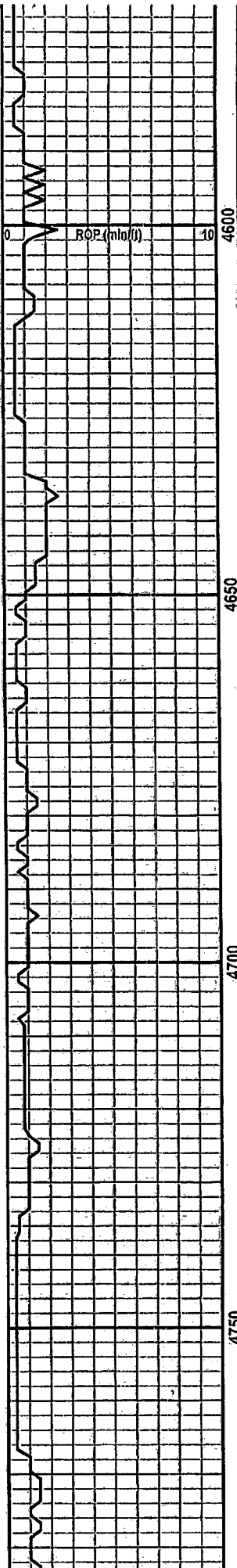
Vis. 36

LCM 3#

Wt. 9.1

Vis. 35

LCM 2#



porosity, no shows, no fluor, no odor, no staining.

Sh, lt. to med. gry, dns, fissle.

Ls, buff, crm. wh, lt. gry-wh, dns, p. dev. int. xln. porosity, no show, no fluor, no odor, no staining.

Ls, tan, buff, v. brittle, f-m xln, foss, oolitic, w/ well dev. int. foss. porosity, no shows, chalky fluor, no odor, no staining.

Ls, tan, buff, v. brittle, chalky, f-m xln, foss, oolitic, w/ fair dev. int. foss. porosity, no shows, chalky fluor, no odor, no staining.

Ls, buff, tan, f-m xln, v. dns, poorly dev. to no vis. porosity, no shows, no fluoro, no odor, no staining.

Ls, tan, buff, v. brittle, chalky, f-m xln, foss, oolitic, w/ well dev. int. foss. porosity, no shows, chalky fluor, no odor, no staining.

Ls, tan, buff, v. brittle, chalky, f-m xln, foss, oolitic, w/ well dev. int. foss. porosity, no shows, chalky fluor, no odor, no staining.

Ls, tan, buff, v. brittle, f-m xln, foss, oolitic, w/ well dev. int. foss. porosity, no shows, chalky fluor, no odor, no staining.

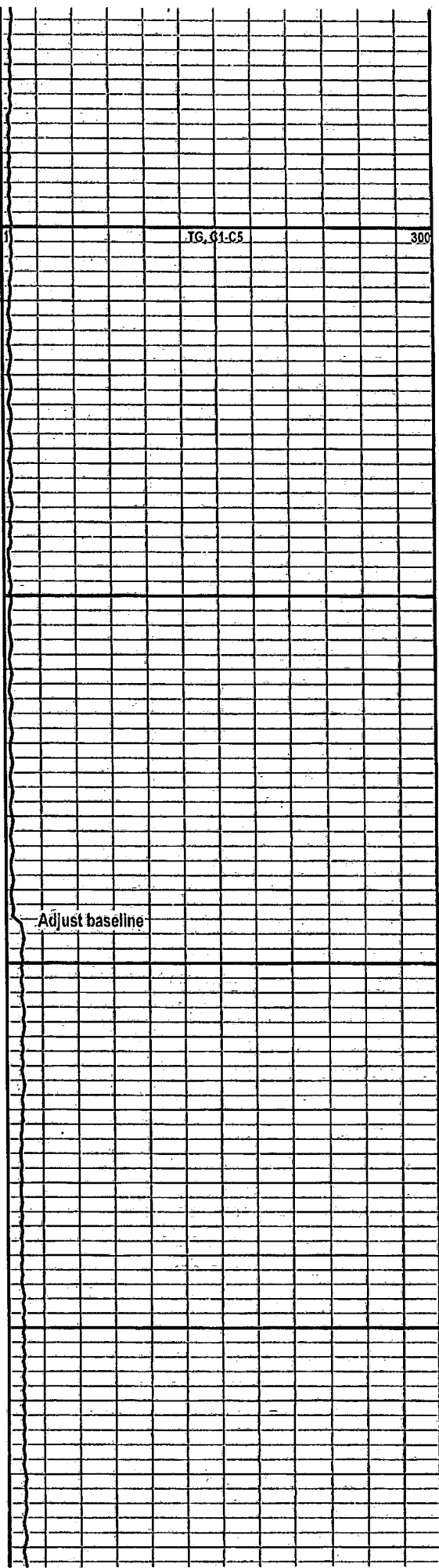
Ls, buff, lt. gry-wh, m-c xln, dns. to chalky, fair to well dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, chalky to granular, fair to well dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

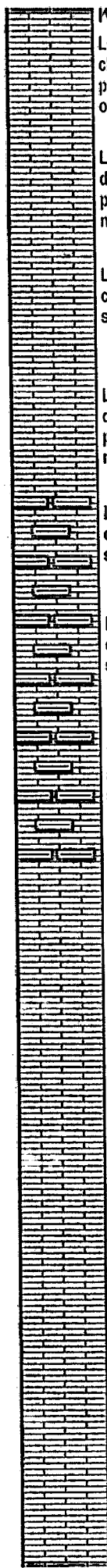
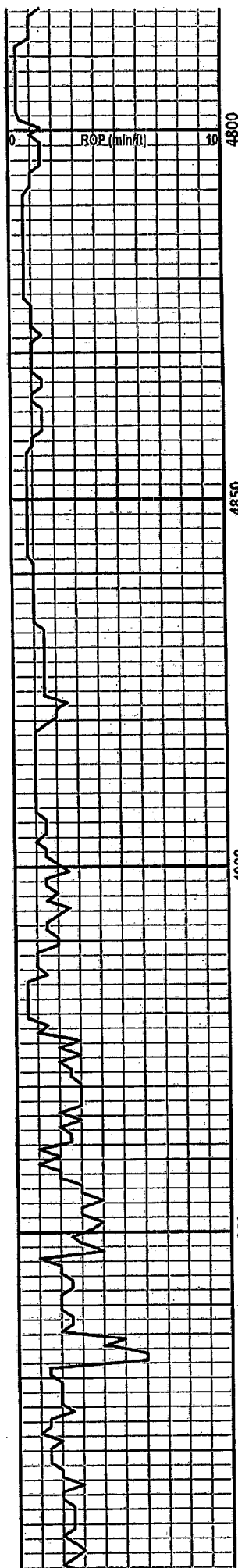
Ls, buff, lt. gry-wh, m-c xln, dns. to chalky, fair to well dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, chalky to granular, fair to well dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, lt. gry-wh, m-c xln, dns. to chalky, fair to well dev. int. xln. & vug. porosity, no shows, chalky fluor, no odor, no staining.



Adjust baseline



Kansas City 4784 (-1763)

Ls, buff, lt. gry-wh, m-c xln, dns. to chalky, fair to well dev. int. xln. & vug. porosity, no shows, chalky fluor, no odor, no staining.

Ls, crm. wh, buff, tan, f-m xln, granular, dns. to chalky, fair to well dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, f-m xln, granular, dns. to chalky, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, crm. wh, buff, tan, f-m xln, granular, dns. to chalky, fair to well dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, f-m xln, granular, dns. to chalky, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, f-m xln, granular, dns. to chalky, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, lt. to med. gry, dns, f. xln, arg., w/ abdt. gry shale, no vis. porosity, no shows, no fluor, no stain.

Ls, tan, lt. gry, f. xln, dns, poorly dev. to no vis. porosity, arg. in part, no shows, no fluor, no odor, no staining.

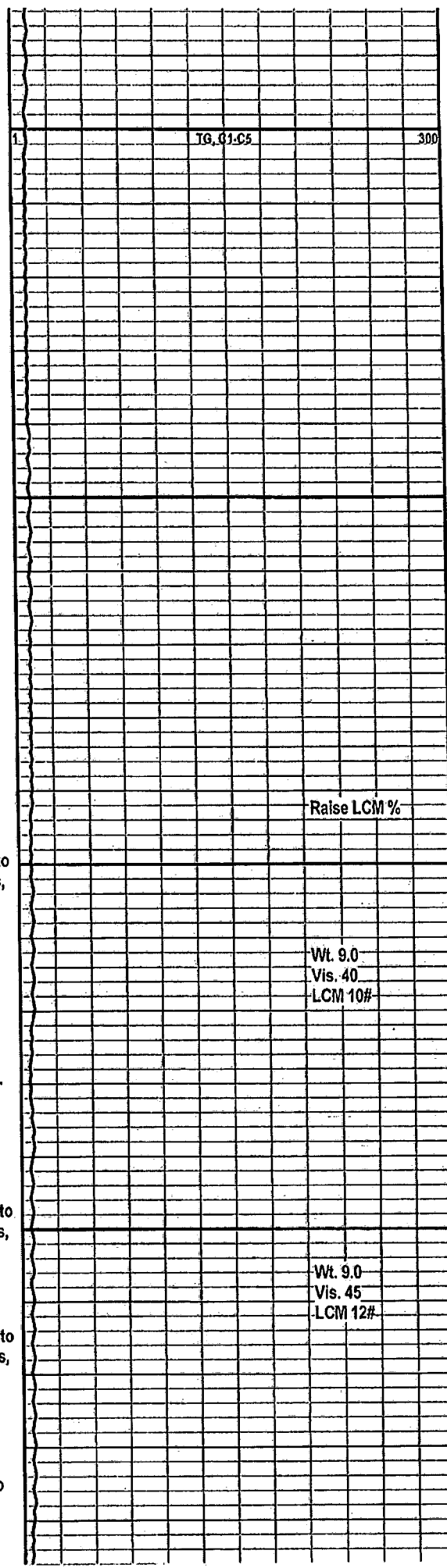
Ls, buff, tan, f-m xln, granular, dns. to chalky, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, lt. to med. gry, dns, arg., w/ lt. to med. gry. sh. poorly dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, tan, lt. gry, f. xln, dns, poorly dev. to no vis. porosity, arg. in part, no shows, no fluor, no odor, no staining.

Ls, tan, lt. gry, f. xln, dns, poorly dev. to no vis. porosity, arg. in part, no shows, no fluor, no odor, no staining.

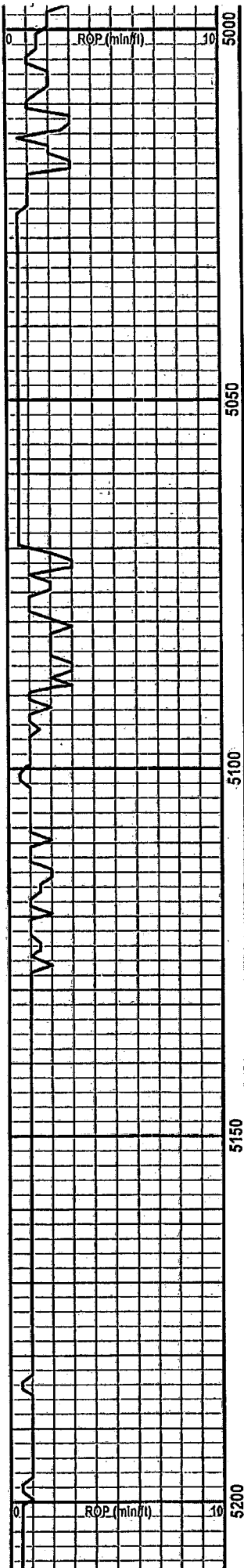
Ls, lt. gry-wh, tan, buff, mottled, f-m xln, granular, v. dns, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.



Raise LCM %

Wt. 9.0
Vis. 40
LCM 10#

Wt. 9.0
Vis. 45
LCM 12#



Ls, lt. gry-wh, tan, buff, mottled, f-m xln, granular, v. dns, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, tan, f-m xln, v. brittle, oolitic, w/ well dev. oomoldic porosity, no shows, dull yellow fluor, no odor, no staining.

Ls, tan, f-m xln, v. brittle, oolitic, w/ well dev. oomoldic porosity, no shows, dull yellow fluor, no odor, no staining.

Ls, tan, f-m xln, v. brittle, oolitic, w/ well dev. oomoldic porosity, no shows, dull yellow fluor, no odor, no staining.

Ls, tan, buff, f xln, v. dns, foss, poorly dev. to no vis. porosity, no shows, no fluoro, no odor, no stn.

Sh, med. gry, fissle, laminated.

Ls, tan, f-m xln, v. brittle, oolitic, w/ well dev. oomoldic porosity, no shows, dull yellow fluor, no odor, no staining.

Ls, tan, brn, f-m xln, arg. in part, dns, poorly dev. to no vis. porosity, no show, no fluor, no staining.

Ls, tan, buff, f-m xln, arg. in part, dns, poorly dev. to no vis. porosity, no show, no fluor, no staining.

Ls, gry, tan, brn, f-m xln, arg., dns, poorly dev. to no vis. porosity, no show, no fluor, no staining.

Ls, gry, tan, brn, f-m xln, arg., dns, poorly dev. to no vis. porosity, no show, no fluor, no staining.

Ls, gry, tan, brn, f-m xln, arg., dns, poorly dev. to no vis. porosity, no show, no fluor, no staining.

Sh, med. to drk. gry, silty to calc., fissle, laminated.

TG, C1-C5	300
Wt. 9.0	
Vis. 39	
LCM 10#	
5016' CFS 30" Trip.	
to 2500'	
TG Inc. 8 units	
TG Inc. 8 units	
TG Inc. 12 units	
@ 5173' survey 3/4 degree	
TG, C1-C5	300

Marmaton 5219 (-2198)

Ls, tan, gry, f-m xln, dns, p. dev. int. xln. porosity, no shows, no fluoro, no odor, no staining.

Ls, buff, tan, f-m xln, dns, p-f dev. int. xln. porosity, no shows, no fluoro, no odor, no staining.

Ls, buff, crm. wh, v. brittle, oolitic, w/ well dev. oomoldic porosity, no shows, dull chalky fluoro, no odor. no staining.

Ls, buff, tan, f-m xln, dns, p-f dev. int. xln. porosity, no shows, no fluoro, no odor, no staining.

Sh, med. to drk. gry, silty to calc., fissle, laminated.

Ls, med. to drk. gry, arg. & shaley, f. xln, granular, no vis. porosity, no shows, no fluoro, no odor, no stn.

Ls, med. to drk. gry, arg. & shaley, f. xln, granular, no vis. porosity, no shows, no fluoro, no odor, no stn.

Ls, crm. wh, buff, v. chalky, f. xln, fair dev. int. xln. porosity, no shows, dull chalky fluoro, no odor.

Ls, crm. wh, buff, v. chalky, f. xln, fair dev. int. xln. porosity, no shows, dull chalky fluoro, no odor.

Ls, crm. wh, buff, v. chalky, f. xln, fair dev. int. xln. porosity, no shows, dull chalky fluoro, no odor.

Ls, buff, tan, brn, f xln, v. dns, poorly dev. to no vis. porosity, no show, no fluoro, no staining.

Ls, buff, tan, brn, f xln, v. dns, poorly dev. to no vis. porosity, no show, no fluoro, no staining.

Ls, buff, tan, brn, f xln, v. dns, poorly dev. to no vis. porosity, no show, no fluoro, no staining.

Ls, buff, tan, mottled gry, oolitic, f-m xln, fair dev. int. foss. & int. xln. porosity, no shows, no fluoro, no odor, no staining.

@ 5267'
Wt. 9.1
Vis. 44
W.L. 11
P.H. 11.0
Chl. 1,400
LCM 6#

TG-C1-C5

300

5250

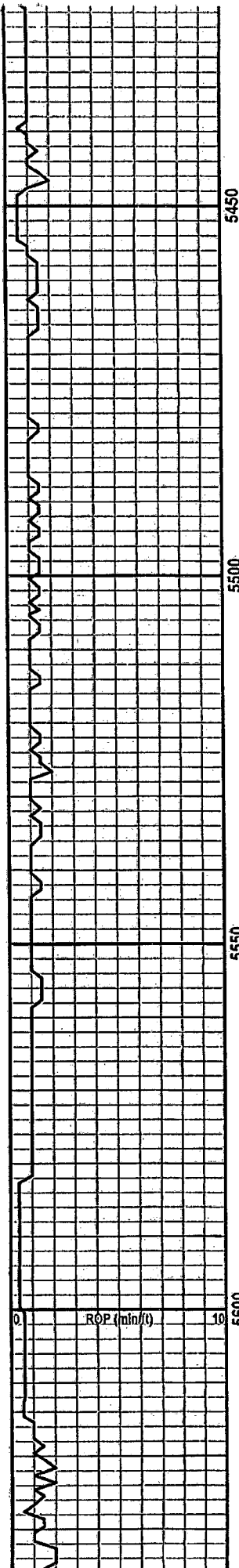
5300

5350

5400

ROP (min/l)

10



Ls, buff, tan, f-m xln, granular, dns. to chalky, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, crm. wh, buff, v. chalky, f. xln, fair dev. int. xln. porosity, no shows, dull chalky fluor, no odor.

Ls, crm. wh, buff, v. chalky, f. xln, fair dev. int. xln. porosity, no shows, dull chalky fluor, no odor.

Sh, black, carb., bleeding gas.

Ls, buff, tan, f-m xln, granular, dns. to chalky, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, f-m xln, granular, dns. to chalky, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, f. xln. to micritic, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, med. gry, f. xln, v. dns, arg. & shaley, no vis. porosity, no shows, no fluor, no odor, no stn.

Ls, med. gry, f. xln, v. dns, arg. & shaley, no vis. porosity, no shows, no fluor, no odor, no stn.

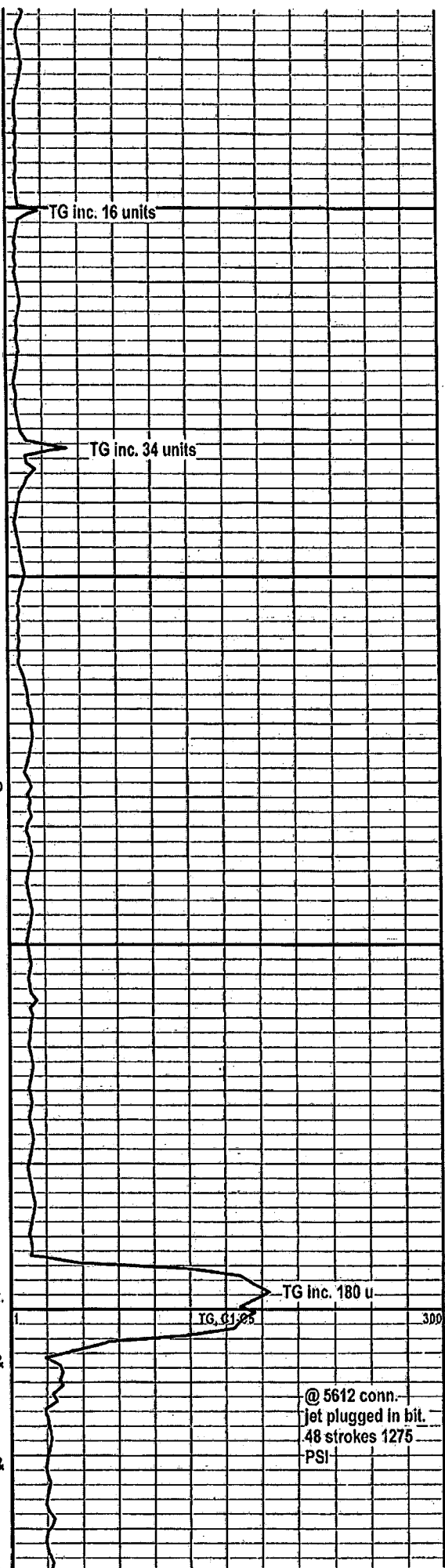
Ls, med. gry, f. xln, v. dns, arg. & shaley, no vis. porosity, no shows, no fluor, no odor, no stn.

Cherokee Sh 5592 (-2571)

Sh, black, carbonaceous, bleeding abdt. gas.

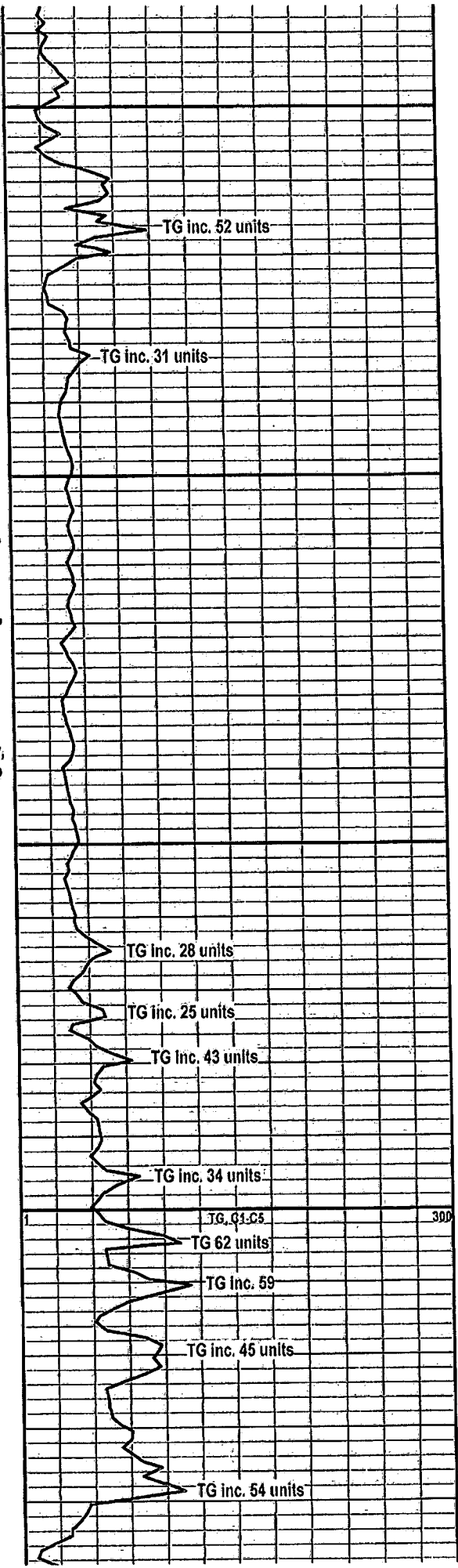
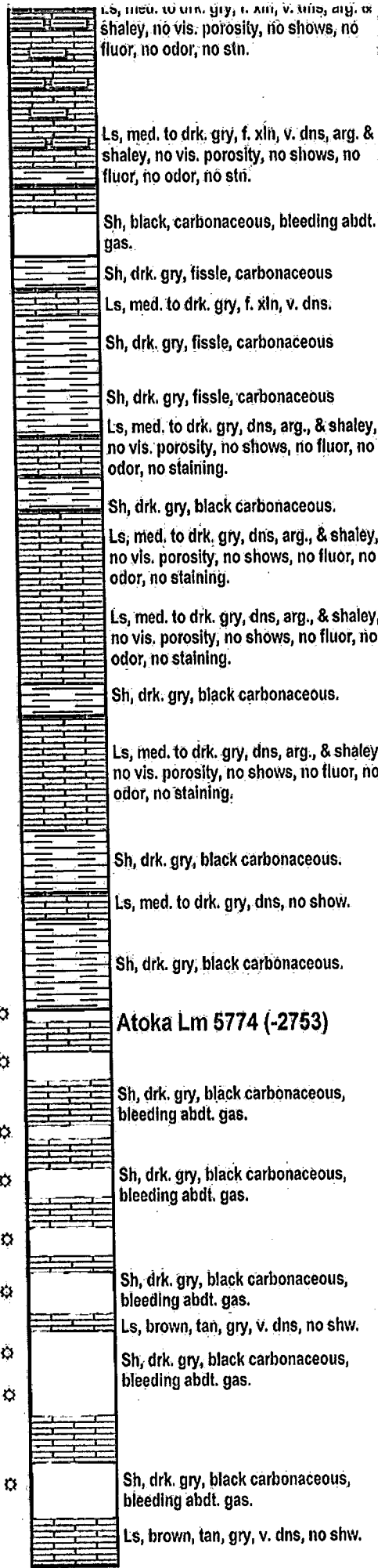
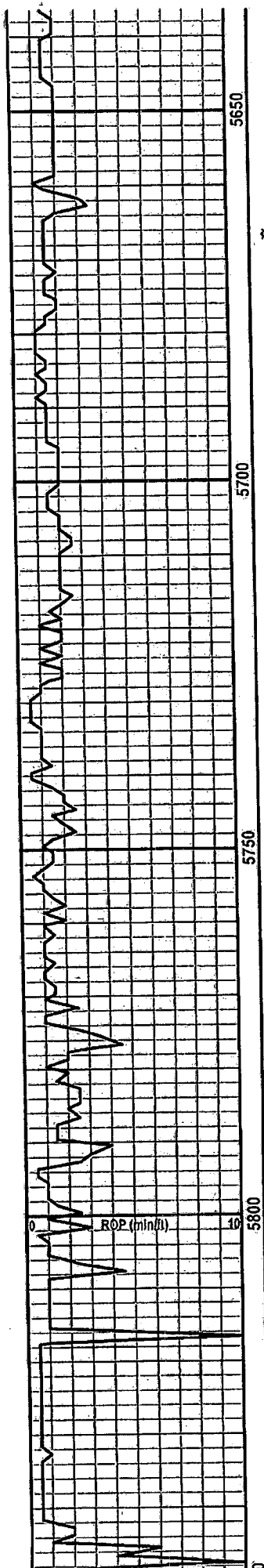
Ls, med. to drk. gry, f. xln, v. dns, arg. & shaley, no vis. porosity, no shows, no fluor, no odor, no stn.

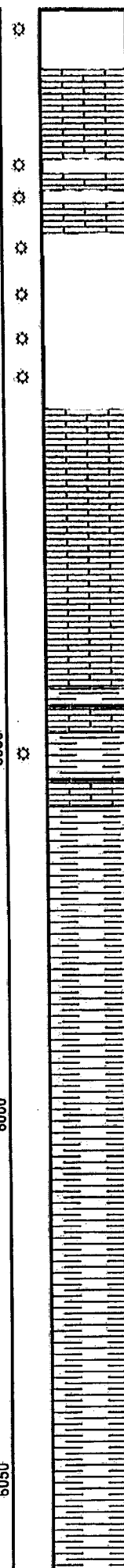
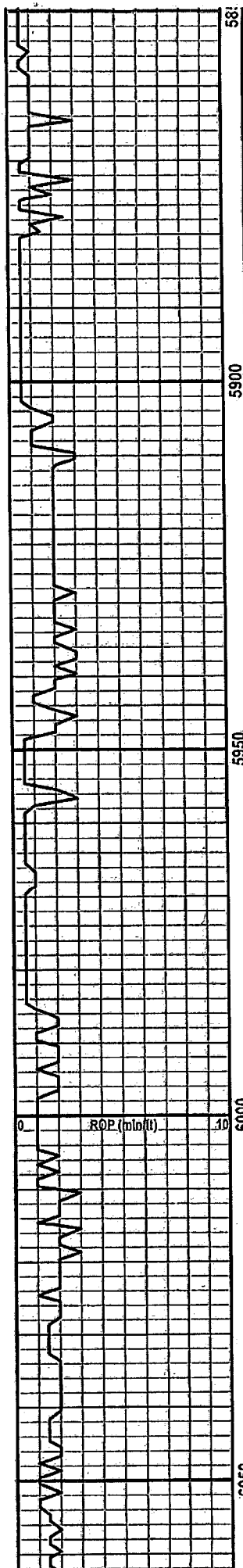
Ls, med. to drk. gry, f. xln, v. dns, arg. & shaley, no vis. porosity, no shows, no fluor, no odor, no stn.



TG, 0125 300

@ 5612 conn.
jet plugged in bit.
48 strokes 1275
PSI





Sh, drk. gry, black carbonaceous, bleeding abdt. gas.

Ls, brn, tan, gry, f. xln. to micritic, v. dns, no vis. por., no fluor, no odor, no staining.

Ls, brown, tan, gry, v. dns, no shw.

Ls, brown, tan, gry, v. dns, no shw.

Sh, drk. gry, black carbonaceous, bleeding abdt. gas.

Sh, drk. gry, black carbonaceous, bleeding abdt. gas.

L. Atoka Lm 5903 (-2882)

Ls, lt. gry-wh, tan, f. xln, micritic, dns. to chalky, tr. chert, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, lt. gry-wh, tan, f. xln, micritic, dns. to chalky, tr. chert, no vis. porosity, no shows, no fluor, no odor, no staining.

Morrow Sh 5940 (-2919)

Sh, drk. gry, black carbonaceous.

Ls, lt. to med. gry, v. dns, no shw.

Sh, drk. gry, black carbonaceous.

Ls, lt. to med. gry, v. dns, no shw.

Sh, drk. gry, black carbonaceous.

Sh & siltstone, tan, gry, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.

Sh & siltstone, tan, gry, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.

Sh, lt. to med. gry, silty, micaceous, fissle, abdt. pyrite.

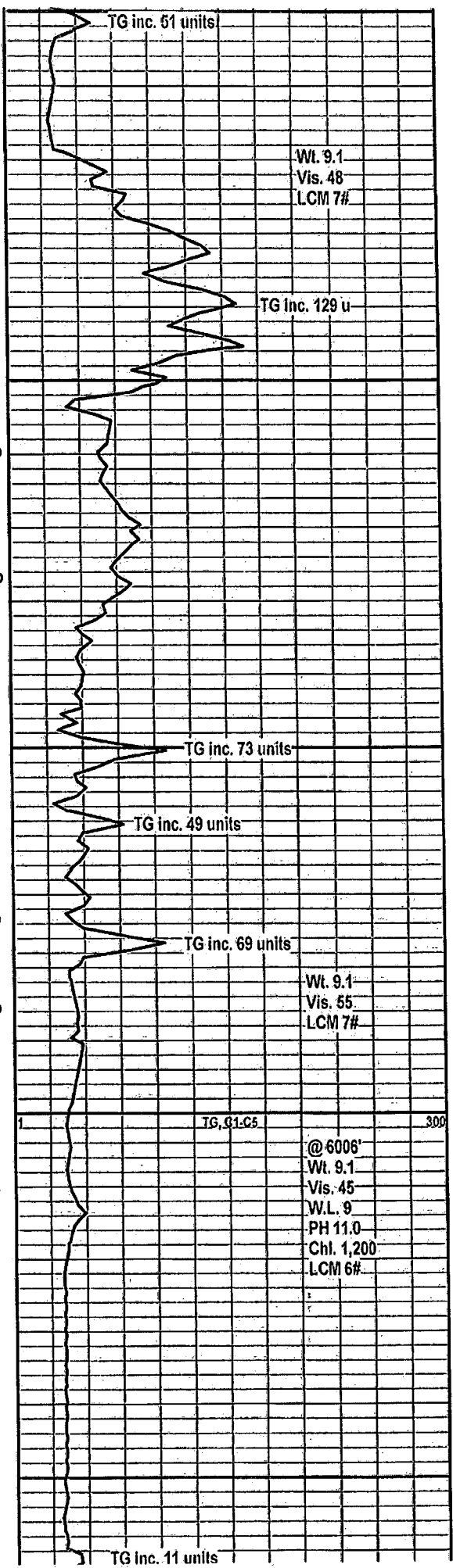
Sh, lt. gry, silty, laminated, fissle.

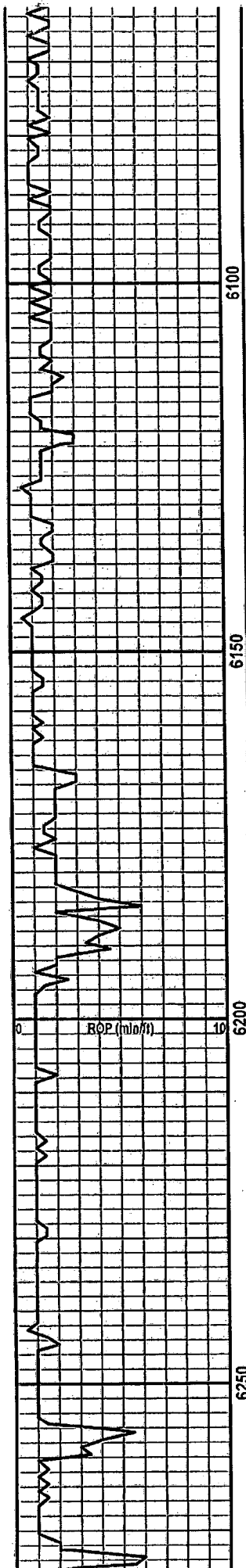
Sh, lt. to med. gry, silty, micaceous, fissle, abdt. pyrite.

Sh, lt. gry, silty, laminated, fissle.

Sh, lt. to med. gry, silty, micaceous, fissle, abdt. pyrite.

Sh, lt. to med. gry, silty, micaceous, fissle, abdt. pyrite.





Sh med. gry, fissle, laminated.

Sh, lt. to med. gry, silty, micaceous, fissle, some pyrite.

Sh med. gry, fissle, laminated.

Sh, med. to drk. gry, fissle, with trace of pyrite.

Ls, tan, f. xln, micritic, v. dns, no vis. porosity, no show, no fluor.

Sh med. gry, fissle, laminated.

Sh, med. to drk. gry, fissle, with trace of pyrite.

Sh med. gry, fissle, laminated.

Sh, med. to drk. gry, fissle, with trace of pyrite.

Ls, lt. to med. gry, f. xln, micritic, v. dns, no vis. porosity, no shows.

Sh lt.-med. gry, fissle, laminated.

Sh, med. to drk. gry, fissle, with trace of pyrite.

Sh lt.-med. gry, fissle, laminated.

Sh, med. to drk. gry, fissle, with trace of pyrite.

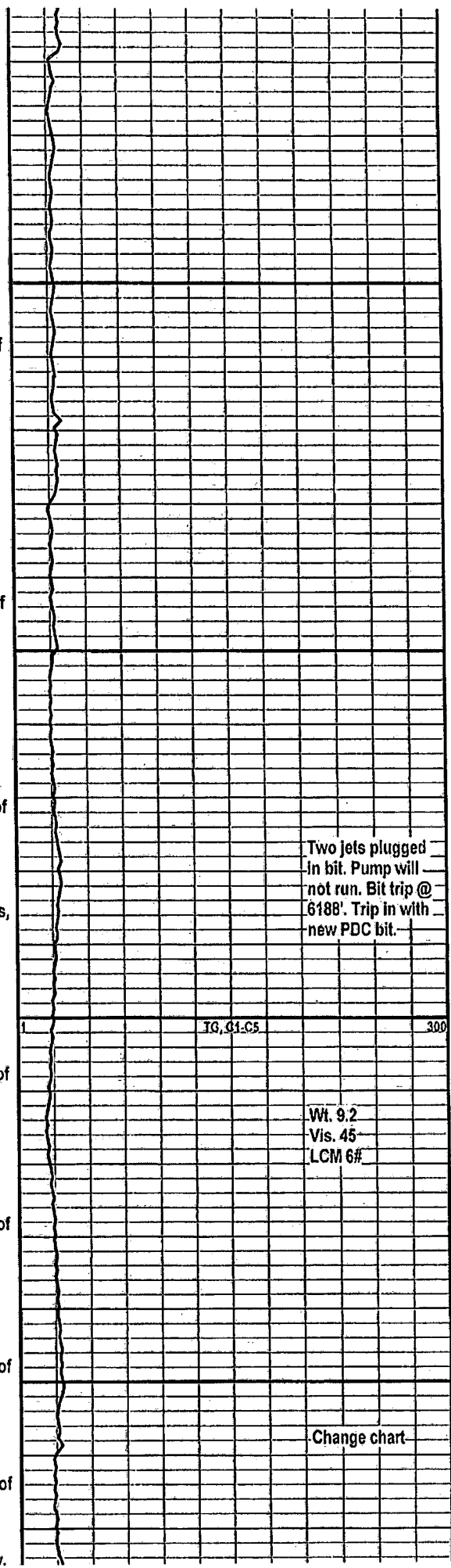
Sh lt.-med. gry, fissle, laminated.

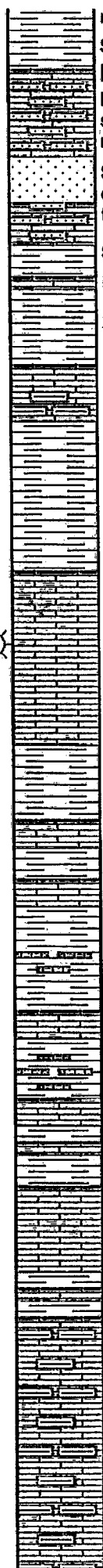
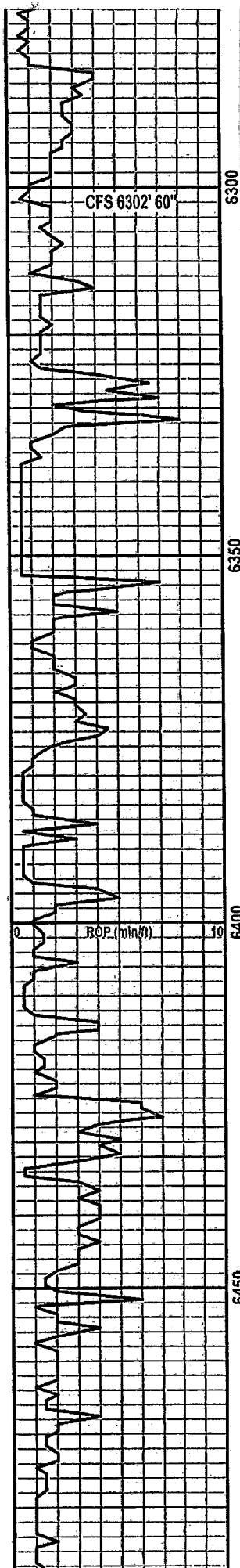
Sh, med. to drk. gry, fissle, with trace of pyrite.

Sh lt.-med. gry, fissle, laminated.

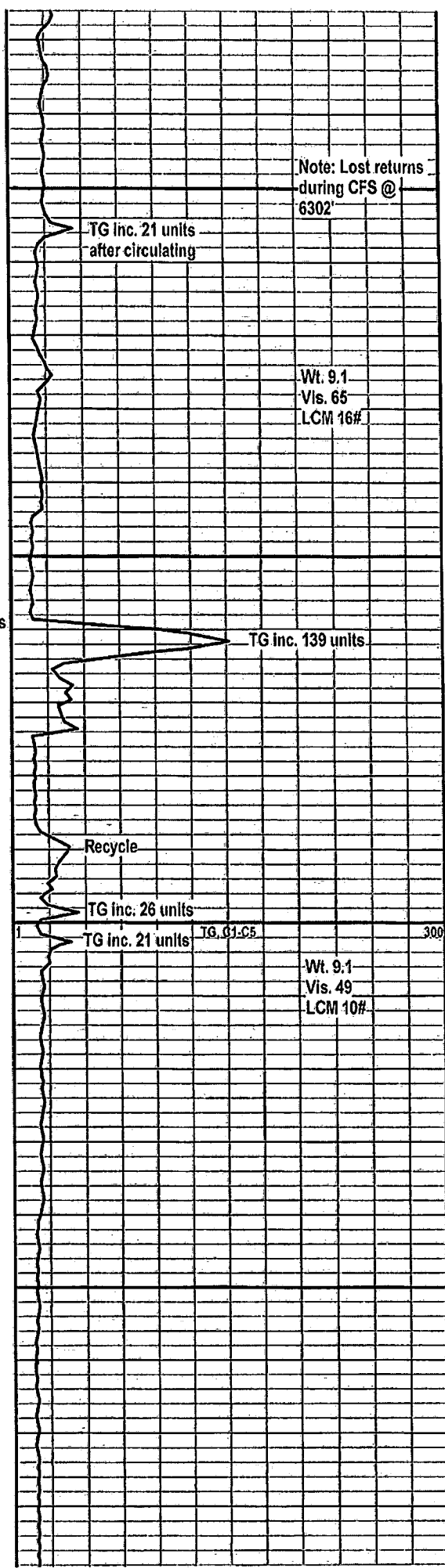
Sh, med. to drk. gry, fissle, with trace of pyrite.

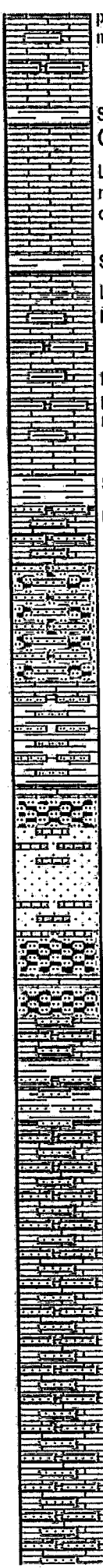
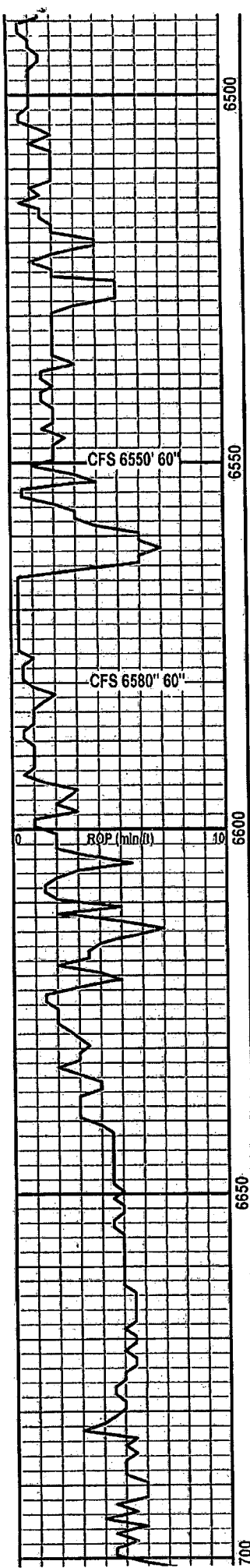
Ls, buff, c. xln, v. dns, glauc., with v.c sand grains. no vis. porositv. no show.





no fluor, no odor, no stn.
 Sh lt.-med. gry, fissle, laminated.
L. Mrw. Lm 6284 (-3263)
 Ls, buff, c. xln, v. dns, glauc., with v.c sand grains, no vis. porosity, no show, no fluor, no odor, no stn.
 SS, wh, lt. gry, med. gr., sub-rd, well dev. int. gr. porosity, v. sli. shw gas, no fluor, no odor, no stn.
 Sh lt.-med. gry, fissle, laminated.
 Ls, buff, tan, f. xln, no vis. porosity
 Sh lt.-med. gry, fissle, laminated.
 Ls, buff, tan, v. dns, f. xln, foss, no vis. porosity, no show, no fluor.
 Sh lt. gry, soft, fissle, laminated.
 Sh lt. gry, soft, fissle, laminated.
Chester 'C' 6353 (-3332)
 Ls, buff, crm-wh, m. xln, v. foss, pell, well dev. int. foss. porosity, good shows of gas, med. gold fluor, sli. odor, no staining.
 Ls, buff, tan, f. xln, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining.
 Sh lt. gry, soft, fissle, laminated.
 Ls, buff, tan, f. xln, v. dns, no vis. por., no shw, no fluor, no staining.
 Sh lt. gry, soft, fissle, laminated.
 Ls, buff, tan, f. xln, v. dns, no vis. por., no shw, no fluor, no staining.
 Sh lt. gry, soft, fissle, laminated.
Chester 'B' 6413 (-3392)
 Ls, buff, tan, f. xln, v. dns, no vis. por., no shw, no fluor, no staining.
 Sh lt. gry, soft, fissle, laminated.
 Ls, buff, tan, f. xln, v. dns, no vis. por., no shw, no fluor, no staining.
 Sh, lt. gry, fissle to non-fissle.
 Ls, buff, tan, f. xln, v. dns, no vis. por., no shw, no fluor, no odor, no stn.
 Sh, lt. gry, fissle to non-fissle.
 Sh, lt. gry, fissle to non-fissle.
 Ls, lt. gry, f. xln, arg. & shaley, no vis. porosity, no shows, no fluor, no odor, no staining, /w gry. shale.
 Ls, lt. gry, f. xln, arg. & shaley, no vis. porosity, no shows, no fluor, no odor, no staining, /w gry. shale.
 Ls, lt. gry, f. xln, arg. & shaley, no vis.





porosity, no shows, no fluor, no odor, no staining, /w gry. shale.

Sh, drk. gry to black, brittle, fissle.
Chester 'A' 6507 (-3486)

Ls, buff, green, f. xln. to micritic, v. dns, no vis. porosity, no shows, no fluor., no odor, no staining.

Sh, drk. gry to black, brittle, fissle.

Ls, buff, f. xln. to micritic, v. dns, no vis. porosity, no show, no fluor.

Ls, lt. gry, f. xln, arg. & shaley, no vis. porosity, no shows, no fluor, no odor, no staining, /w gry. shale.

Sh, lt. gry, fissle to non-fissle.

Ls, buff, f. xln, w/ f. gr. sd, no vis. por., no show, no fluor, no stain.

Siltstone, tan, gry, sandy to shaley, w/ f-m gr. sand, sil. shw. gas, no shw. oil, no fluor, no odor, no stn.

Sh. & Siltstone, tan, red, brown, gry, no shows, no fluor, no odor, no staining.

Siltstone, brick-red, brown, no show, no fluor, no odor, no stn.

SS, green, f-m gr, fair sort, sub-rd, poorly dev. int. gr. por., no shows, no fluor, no odor, no staining.

Siltstone, brick-red, brown, no show, no fluor, no odor, no stn.

Siltstone, brick-red, brown, no show, no fluor, no odor, no stn.

Ls, red-brown, sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.

Sh, gry, dns, fissle, silty to sandy.
Ste. Gen 6640 (-3619)

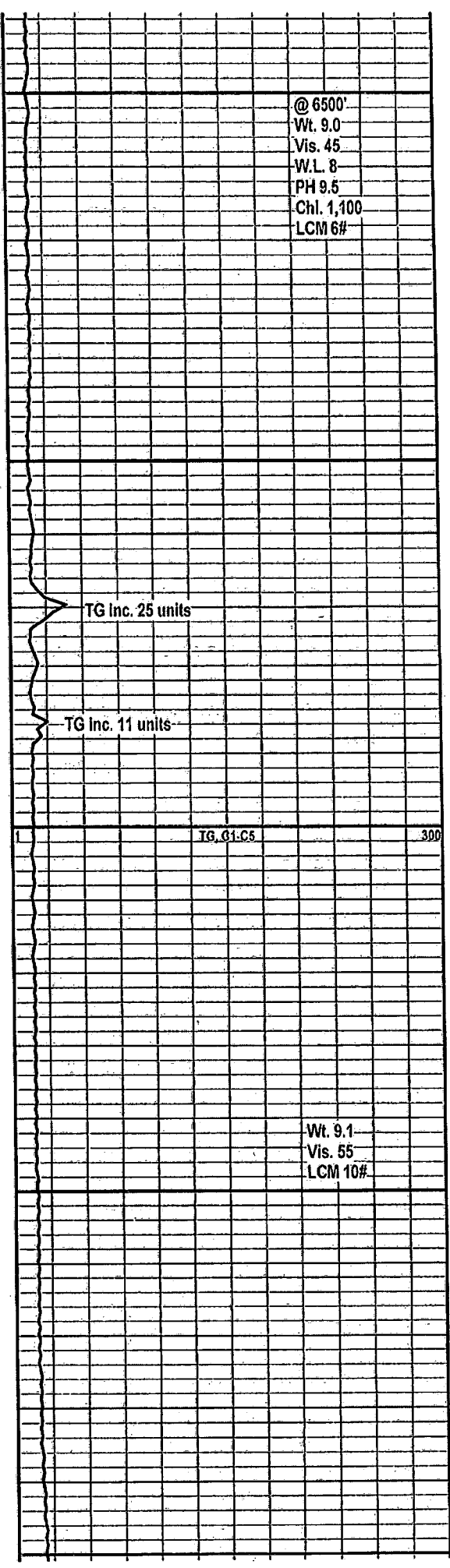
Ls, red-brown, sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, buff-wh, red-brown, sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no stn.

Ls, buff, tan, f. xln, v. sandy w/ f. gr. sand, no vis. porosity, no shows, no fluoro, no odor, no staining.

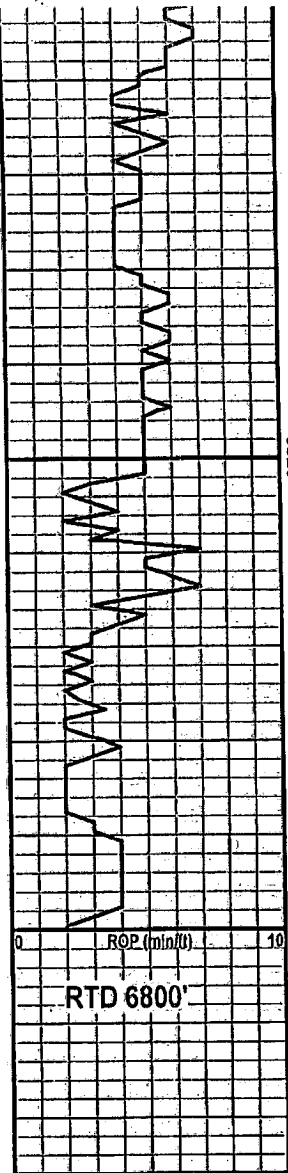
Ls, buff, tan, f. xln, v. sandy w/ f. gr. sand, no vis. porosity, no shows, no fluoro, no odor, no staining.

Ls, buff, tan, f. xln, v. sandy w/ f. gr. sand, no vis. porosity, no shows, no fluoro, no odor, no staining.



@ 6500'
Wt. 9.0
Vis. 45
W.L. 8
PH 9.5
Chl. 1,100
LCM 6#

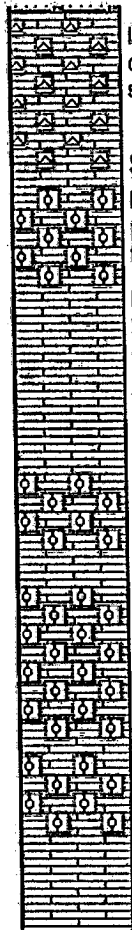
Wt. 9.1
Vis. 55
LCM 10#



6750

6800

RTD 6800'



Ls, buff, tan, f. xln, micritic, w/ fresh chert, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.

St. Louis 6720 (-3699)

Ls, wh, buff, f. xln. to micritic, oolitic & pell., p. dev. to no vis. por., no shw, no fluor, no odor, no stn.

Ls, lt. gry, buff, f. xln. to micritic, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, lt. gry, buff, f. xln. to micritic, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, wh, buff, f. xln. foss., oolitic & pell., fair dev. int. xln. & vug. por., no shw, no fluor, no odor, no stn.

Ls, crm. wh, buff, f-m xln, foss., oolitic & pell., dns. to chalky, tr. fresh chert, fair dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

Ls, crm. wh, buff, f-m xln, foss., oolitic & pell., dns. to chalky, tr. fresh chert, fair dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, f. xln, v. dns, no vis. por., no shows, no fluor, no staining.

Wt. 9.1
Vis. 50
LCM 8#

Wt. 9.0
Vis. 52
LCM 4#

JG, G1-C5

300