

# Timothy G. Pierce

## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY R & B Oil and Gas, Inc.

LEASE Anttrim #3

FIELD Spivey-Grabs-Basil

LOCATION N/2 NW SW

SEC 25 TWP 31 S RGE 9 W

COUNTY Harper STATE Kansas

CONTRACTOR Duke Drilling Rig # 1

SPUD 9-29-2004 COMP 10-06-2004

RTD 4500 LTD 4507

MUD UP 3250 TYPE MUD Chemical

SAMPLES SAVED FROM 3300 TO RTD

DRILLING TIME KEPT FROM 3300 TO RTD

SAMPLES EXAMINED FROM 3300 TO RTD

GEOLOGICAL SUPERVISION FROM 3750 to RTD

GEOLOGIST ON WELL Tim Pierce.

#### ELEVATIONS

KB 1571'

DF \_\_\_\_\_

GL 1560'

Measurements Are All  
From Kelly Bushing

#### CASING

CONDUCTOR \_\_\_\_\_

SURFACE 8-5/8" at 235'

PRODUCTION 5-1/2" at 4500'

#### ELECTRICAL SURVEYS

DIL / CN-CD

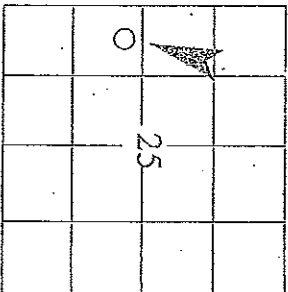
Log Tech \_\_\_\_\_

#### FORMATION TOPS

#### ELECTRIC LOG

#### SAMPLE

Heebner Shale	3412 (-1841)	3408 (-1837)
Lansing	3620 (-2049)	3615 (-2044)
Stark Shale	4068 (-2497)	4064 (-2493)
Cherokee Shale	4303 (-2732)	4298 (-2727)
Mississippi	4398 (-2827)	4394 (-2823)



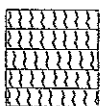
REMARKS Electric log and sample analysis indicate a productive zone in the top of the Mississippi. Production casing should be set to further test the well. The Kansas City Swope zone at 4082-4093 showed an increase on the gas detector, however no sample shows were observed. This zone is productive in Sec. 26-31S-9W and should be considered for perforating before this well is abandoned.

*Timothy G. Pierce*

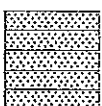
Timothy G. Pierce

*Timothy G. Pierce  
10/26/04*

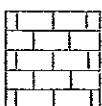
### LEGEND



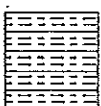
Anhydrite



Sandstone



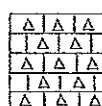
Limestone



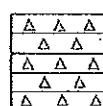
Shale



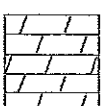
Carb Sh



Cherty LS



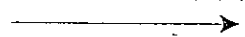
Chert



Dolomite

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Decreases



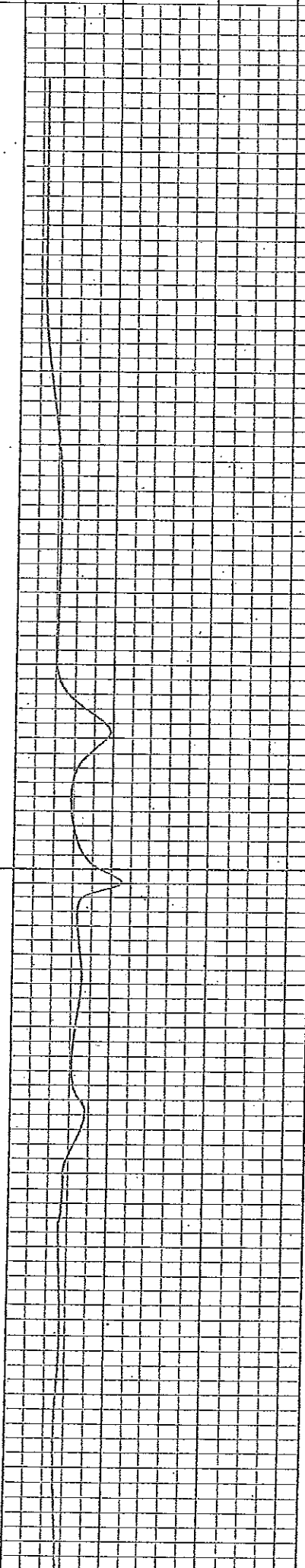
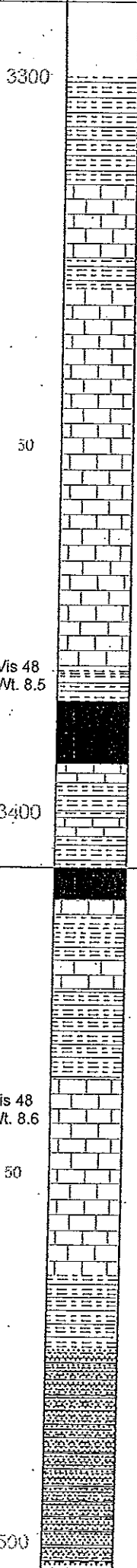
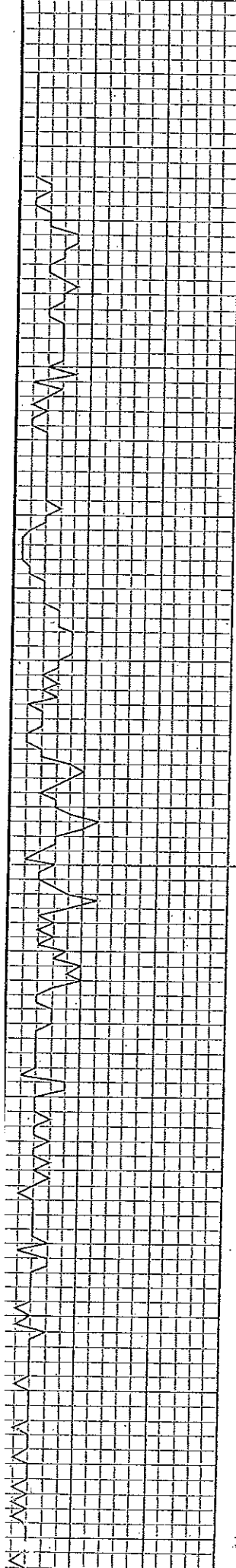
DEPT

LITHOLG

GAS SCALE

SAMPLE DESCRIPTION

REMARKS



**Surveys**  
 1/2 degree @ 236'  
 3/4 degree @ 720'  
 3/4 degree @ 1254'  
 3/4 degree @ 2226'  
 3/4 degree @ 2785'  
 3/4 degree @ 3285'  
 1 degree @ 3721'  
 3/4 degree @ 4500'  
 Displace Mud 3250'  
 LS - tan-crm-wht, fn xtlr, dense  
  
 LS - crm-wht, fn xtlr, chalky to dense  
  
 LS - tan-wht, fn-med xtlr, slt fos, dense to chalky  
  
 Sh - gr to blk carb  
  
 LS - gr-tan, fn xtlr, dense w/ Sh-gr-blk  
  
 Sh - blk carb  
 LS - tan-brn-gr, dense  
  
 Sh - blk-gr  
 LS - tan-gr, fn xtlr, dense  
  
 Sh - gr-blk  
  
 LS - tan-crm, fn xtlr, dense to chalky  
  
 Sh - gr-blk  
  
 Sh - gr-blk, w/ SS - gr, fn grained tightly cem, no vis por, no show

9-29-04 - MIRT, RU  
 Spud @ 6:15 PM, set  
 6 jts 8-5/8"X 28#  
 @ 238' w/ 180 sx  
 60/40 Poz, 2% gel,  
 2% cc.  
 PD @ 11:30 PM  
  
 9-30-04 - 7:00 AM  
 236' WOC'  
  
 10-01-04 - 7:00 AM  
 drlg @ 1328'  
  
 10-02-04 - 7:00 AM  
 drlg @ 2088'  
  
 10-03-04 - 7:00 AM  
 drlg @ 2950'  
  
 10-04-04 - 7:00 AM  
 drlg @ 3710'  
  
 10-05-04 - 7:00 AM  
 drlg @ 4169'  
  
 10-06-04 - 7:00 AM  
 RTD-4500' Logging  
  
 Heebner Sh.  
 3408 (-1837)

3300

50

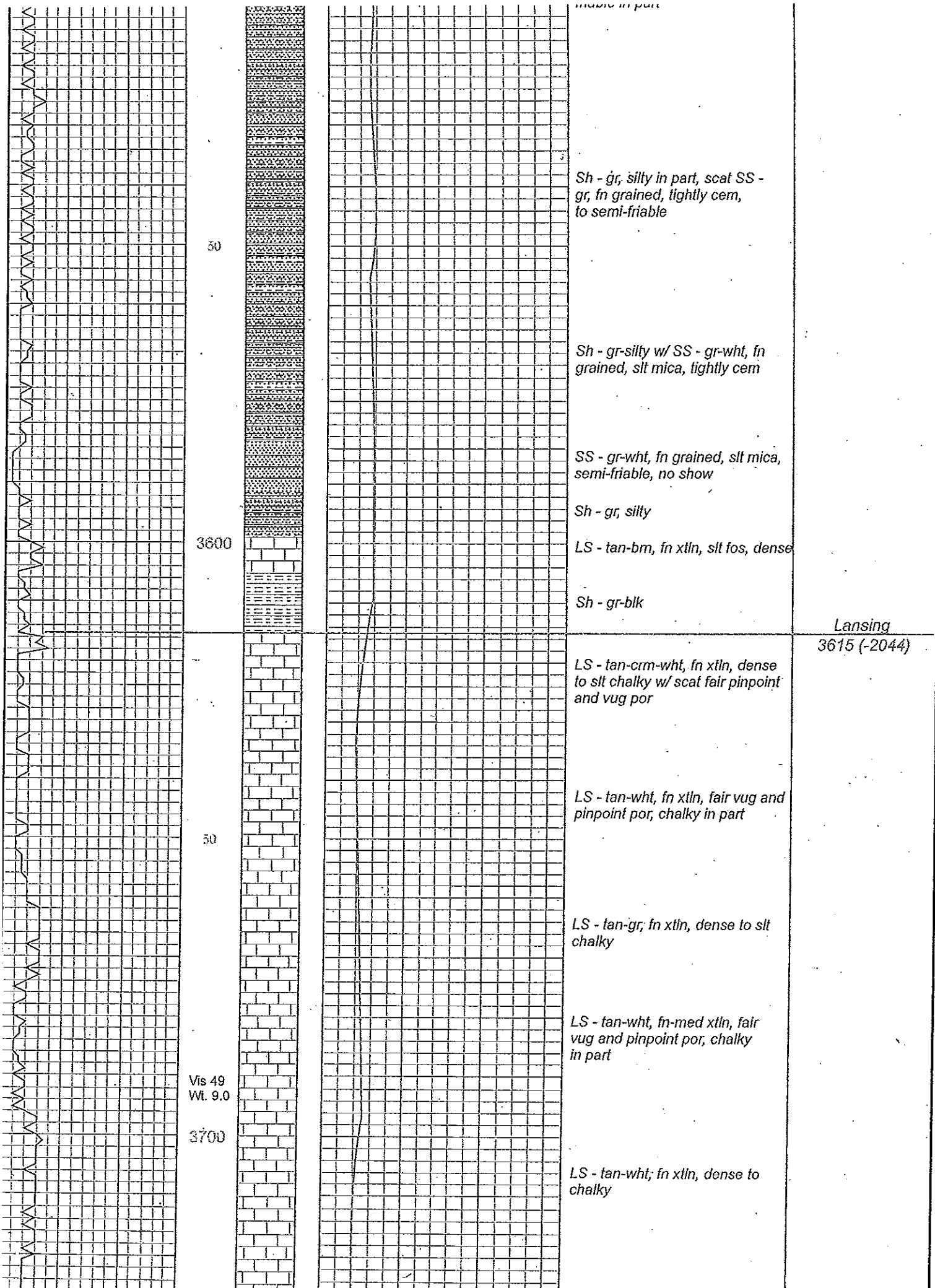
Vis 48  
Wt. 8.5

3400

Vis 48  
Wt. 8.6

50

3500



*Sh - gr, silty in part, scat SS - gr, fn grained, tightly cem, to semi-friable*

*Sh - gr-silty w/ SS - gr-wht, fn grained, slt mica, tightly cem*

*SS - gr-wht, fn grained, slt mica, semi-friable, no show*

*Sh - gr, silty*

*LS - tan-bm, fn xtlr, slt fos, dense*

*Sh - gr-blk*

*Lansing  
3615 (-2044)*

*LS - tan-crm-wht, fn xtlr, dense to slt chalky w/ scat fair pinpoint and vug por*

*LS - tan-wht, fn xtlr, fair vug and pinpoint por, chalky in part*

*LS - tan-gr, fn xtlr, dense to slt chalky*

*LS - tan-wht, fn-med xtlr, fair vug and pinpoint por, chalky in part*

*LS - tan-wht, fn xtlr, dense to chalky*

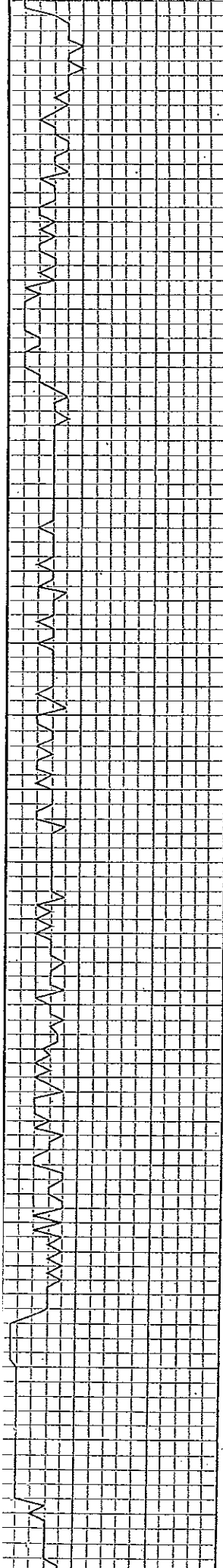
50

3600

50

Vis 49  
Wt. 9.0

3700



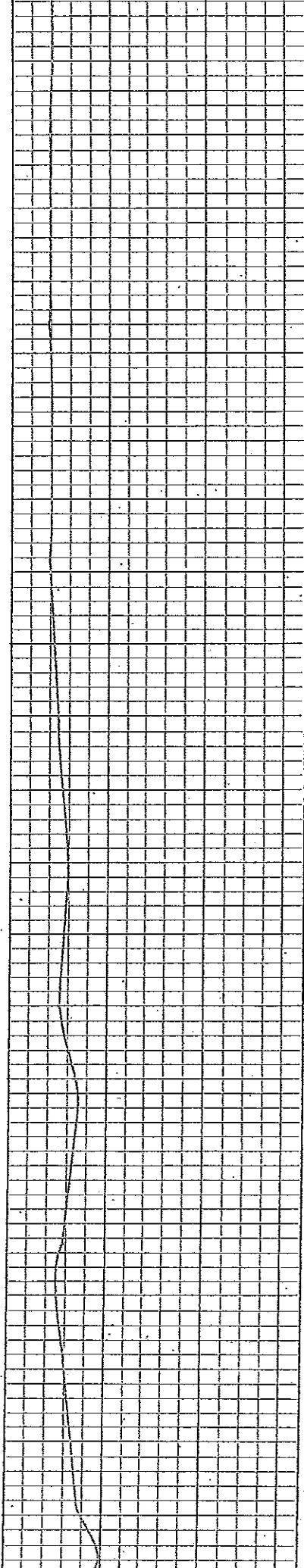
50

3800

50

3900

Vis 45  
Wt. 9.2



LS - tan-gr-wht, fn xtlr, dense

LS - tan-wht, fn xtlr, dense to  
chalky in part

LS - gr-wht-tan, fn xtlr, fair  
pinpoint por to chalky

LS - gr-tan, fn xtlr, dense

Sh - blk-gr

Sh - blk-gr

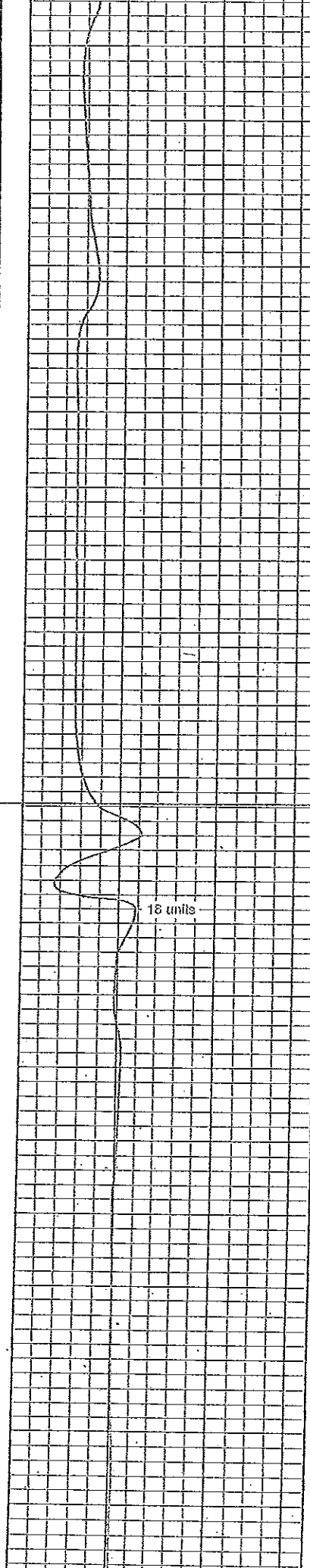
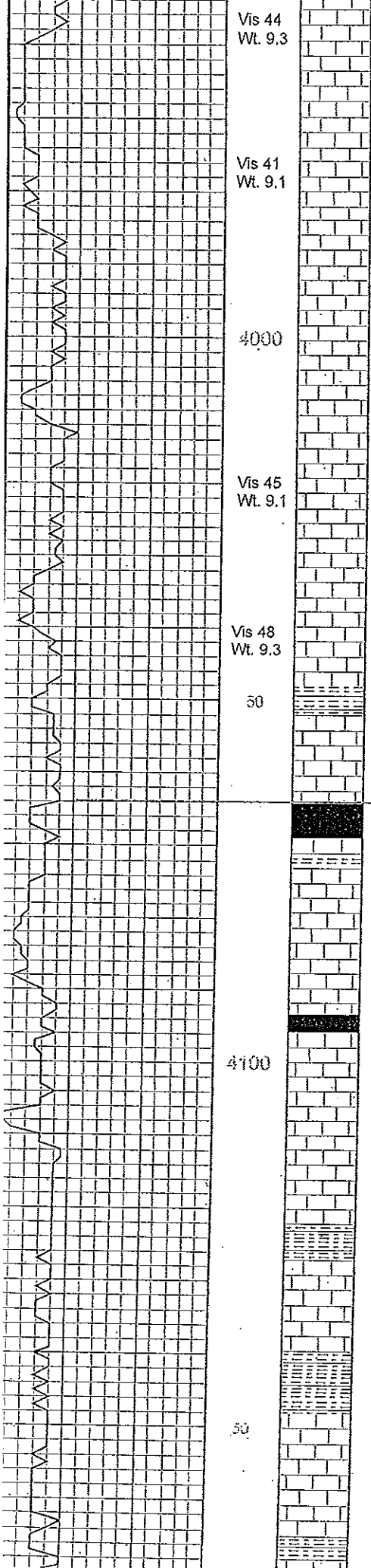
Sh - blk-gr

LS - gr-tan, dense

Sh - gr-blk

LS - tan-wht, fn-med xtlr, fair-gd  
vug and int xtlr por, chalky in  
part

Sh - blk-gr



LS - tan-gr, fn xtlr, dense

LS - tan-wht, fn-med xtlr, gd vug and int xtlr por, chalky in part, no show

LS - tan-crm-wht, fn xtlr, dense

LS - tan-crm, fn xtlr, gd vug and int xtlr por, no show

LS - tan-gr, fn xtlr, dense

LS - tan-gr, fn-med xtlr, fair vug and int xtlr por, to chalky in part

Sh - gr-blk

LS - tan, fn xtlr, dense, pyritic in part

Sh - blk carb

LS - tan-brn-gr, fn-med xtlr, fair vug por, to chalky in part, no vis show or stain, no odor

Sh - blk carb

LS - tan-gr, fn xtlr, dense

LS - brn, fn xtlr, gd oolitic por no show

LS - tan-brn-gr, fn xtlr, dense to slt chalky

Sh - blk-gr

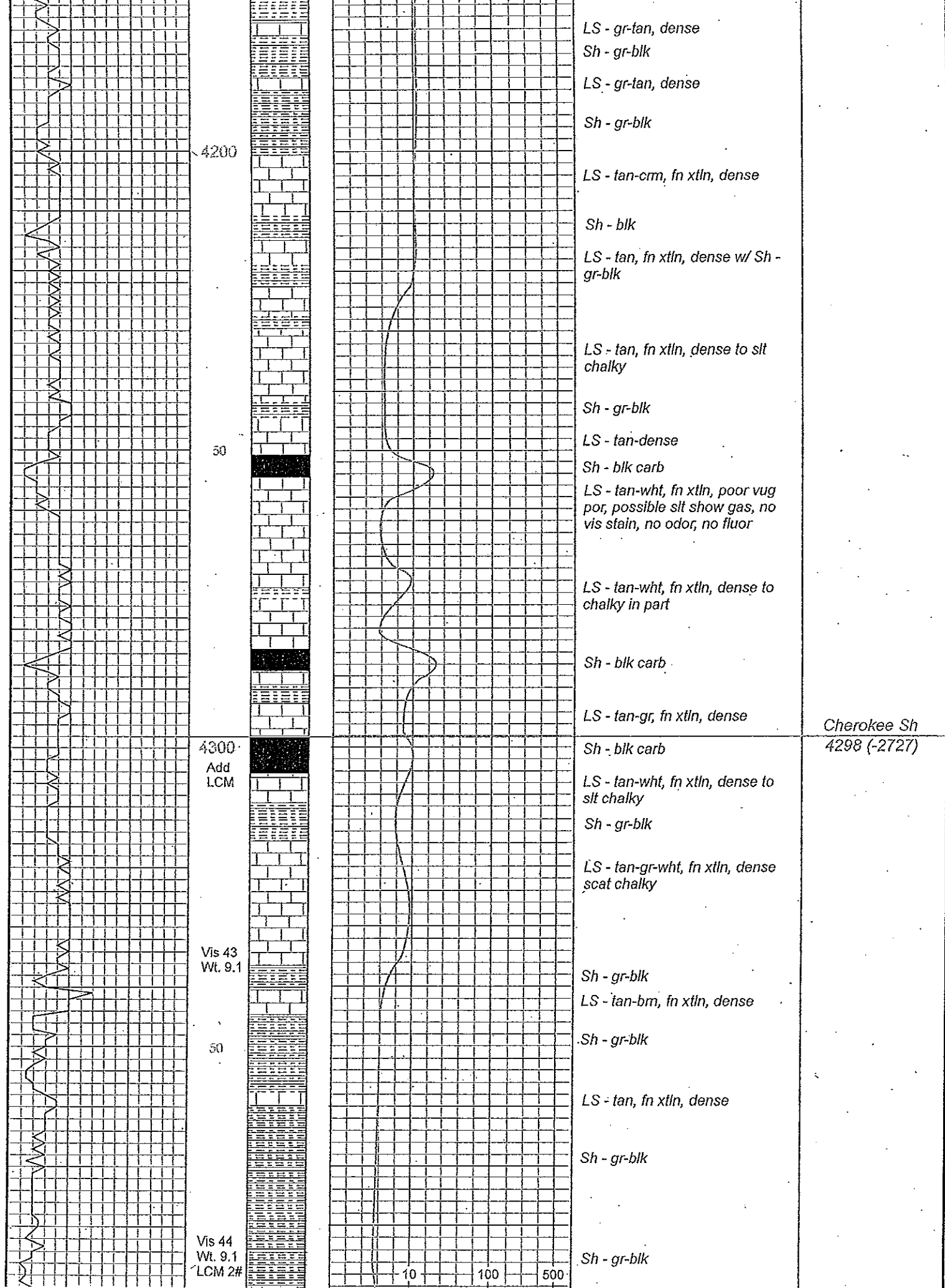
LS - tan-gr, fn xtlr, dense

Sh - blk-gr

LS - gr-tan, dense

Sh - blk

Stark Shale  
4064 (-2493)



4200

50

4300  
Add  
LCM

Vis 43  
Wt. 9.1

50

Vis 44  
Wt. 9.1  
LCM 2#

LS - gr-tan, dense

Sh - gr-blk

LS - gr-tan, dense

Sh - gr-blk

LS - tan-cm, fn xtl, dense

Sh - blk

LS - tan, fn xtl, dense w/ Sh -  
gr-blk

LS - tan, fn xtl, dense to slt  
chalky

Sh - gr-blk

LS - tan-dense

Sh - blk carb

LS - tan-wht, fn xtl, poor vug  
por, possible slt show gas, no  
vis stain, no odor, no fluor

LS - tan-wht, fn xtl, dense to  
chalky in part

Sh - blk carb

LS - tan-gr, fn xtl, dense

Cherokee Sh  
4298 (-2727)

Sh - blk carb

LS - tan-wht, fn xtl, dense to  
slt chalky

Sh - gr-blk

LS - tan-gr-wht, fn xtl, dense  
scat chalky

Sh - gr-blk

LS - tan-bm, fn xtl, dense

Sh - gr-blk

LS - tan, fn xtl, dense

Sh - gr-blk

Sh - gr-blk

10 100 500

4400

CFS

CFS

50

Vis 48  
Wt. 9.0  
LCM 2#

RTD 4500'

4500

50

4600

210 units

244 units

tripolitic in part, gd vug por,  
gd show free oil and gas  
bubbles, strong odor, spotty  
light stain to saturated stain

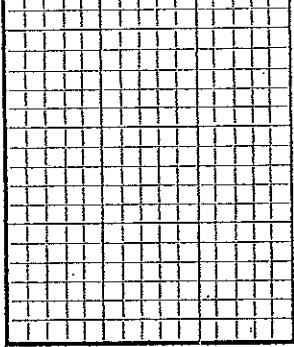
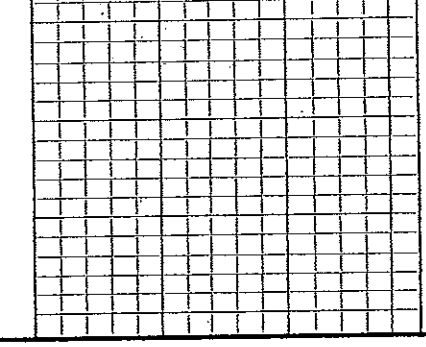
Chert - wht, gd weathered por,  
fair-gd vug por, tripolitic in part,  
vgd show free oil and gas,  
strong odor, spotty to saturated  
stain

Chert - wht, gd weathered por,  
f-gd vug por, tripolitic in part,  
gd show free oil and gas, gd  
odor, spotty to saturated stain

Chert - wht, f-gd weathered por,  
fair vug por, trip in part, fair-gd  
show oil and gas, spotty to sat  
stain

Chert - wht, good weathered por,  
tripolitic in part, gd show oil film,  
fair-gd odor, spotty to sat brn  
stain

Chert - wht, gd weathered por  
to tripolitic, gd vug por, gd show  
oily film, gd odor, spotty to sat  
brn stain

					
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