# White Exploration, Inc.

## Carr #2-34

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

| | | | |
|---|---|---|---|
| **Well Name:** | **Carr #2-34** | | |
| **Location:** | **C E/2 SW of Section 34-T29S-R41W** | | |
| **License Number:** | **API 15-187-21205** | **Region:** | **Stanton Co., KS** |
| **Spud Date:** | **2/23/2012** | **Drilling Completed:** | **3/1/2012** |
| **Surface Coordinates:** | **1,320' FSL & 1,980' FWL** | | |
| **Bottom Hole Coordinates:** | **1,320' FSL & 1,980' FWL** | | |
| **Ground Elevation (ft):** | **3,383'** | **K.B. Elevation (ft):** | **3,394'** |
| **Logged Interval (ft):** | **4,200' To: 5,520'** | **Total Depth (ft):** | **5,520'** |
| **Formation:** | **Mississippian** | | |
| **Type of Drilling Fluid:** | **Chemical** | | |

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

### OPERATOR

**Company:** White Exploration, Inc
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Wichita, KS 67220

### 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 |
|---|---|---|
| Cherokee Shale | 4462 (-1068) | 4463 (-1069) |
| Atoka Shale | 4831 (-1437) | 4833 (-1439) |
| Morrow Shale | 4960 (-1566) | 4964 (-1570) |
| L. Mrw. Mkr. Sand | 5297 (-1903) | 5300 (-1906) |
| Keyes Sand Porosity | 5385 (-1991) | 5393 (-1999) |
| Ste. Genevieve | 5420 (-2026) | 5423 (-2029) |

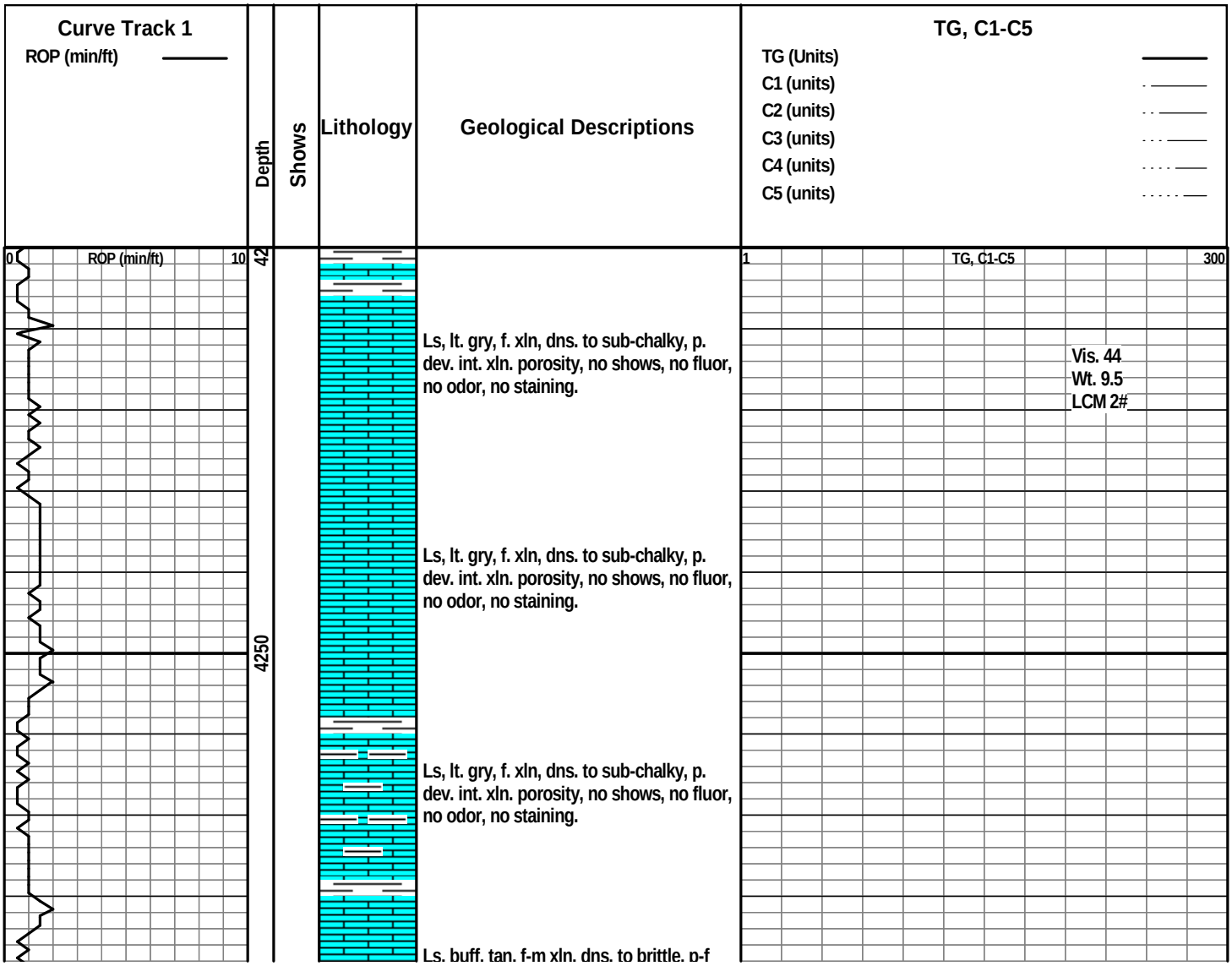
## DSTs

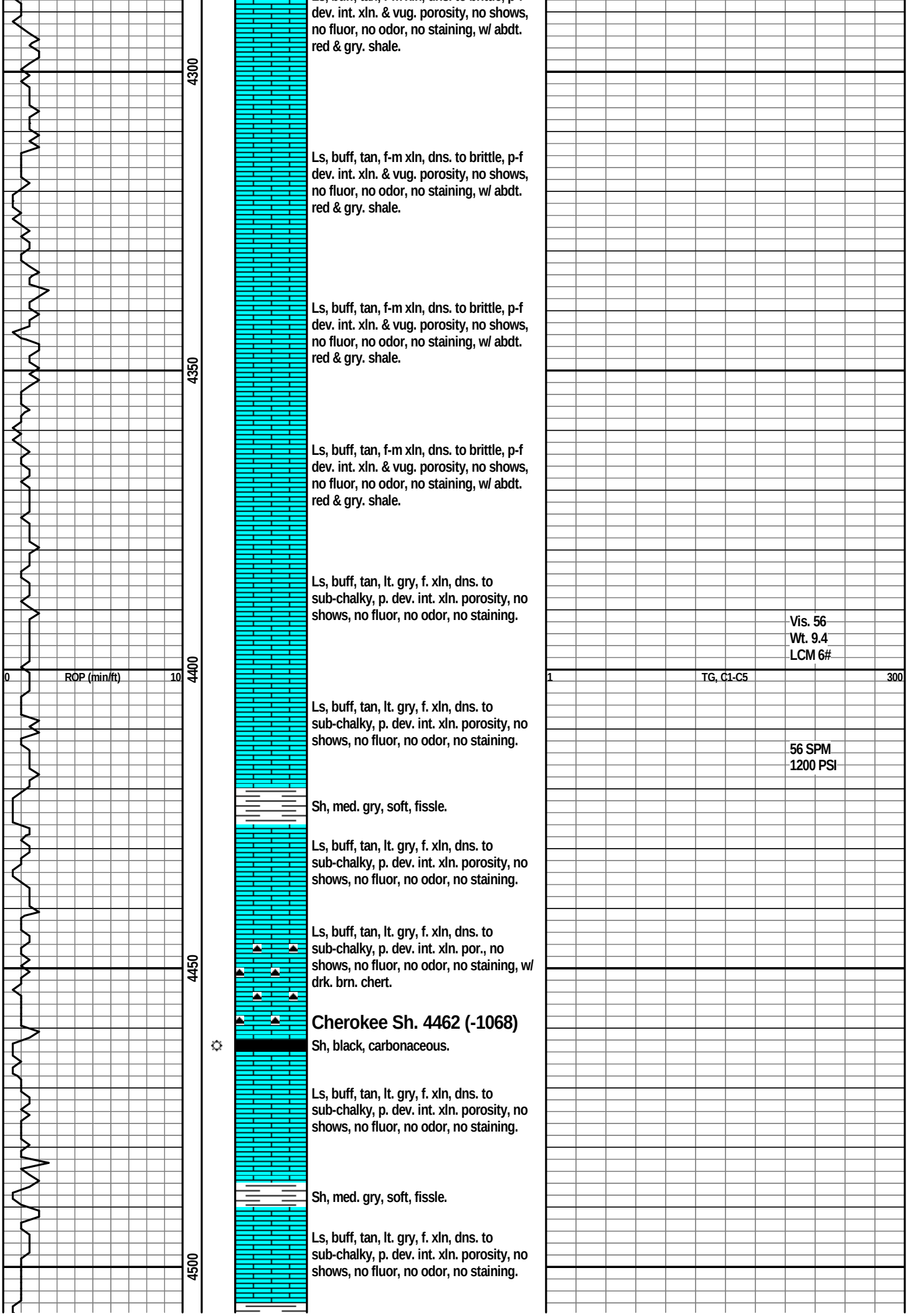
None

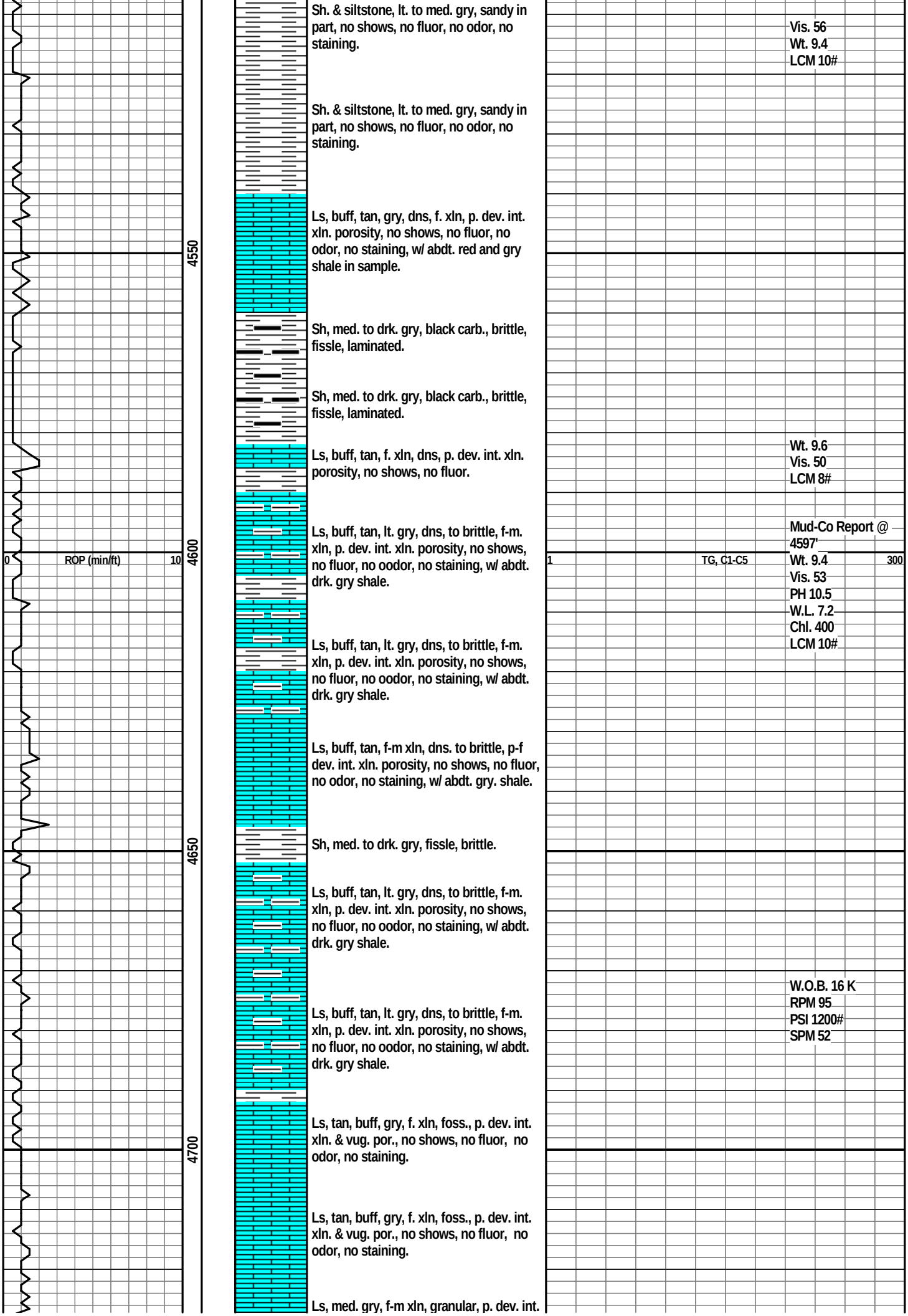
## Comments

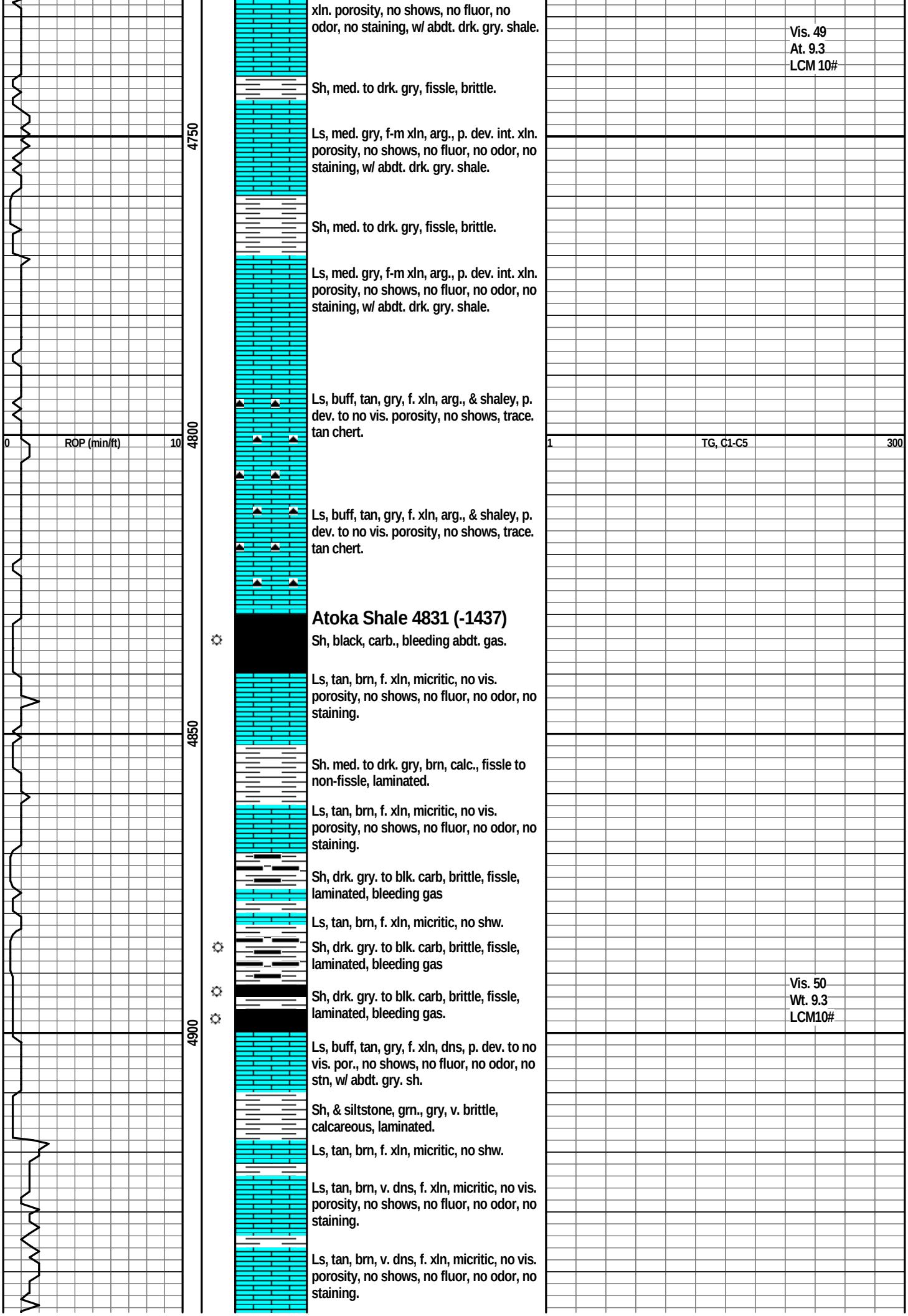
Due to the good shows of oil observed in the Keyes Sand, well developed porosity and positive structural position, it was decided to further test the Carr #2-34 through production casing.

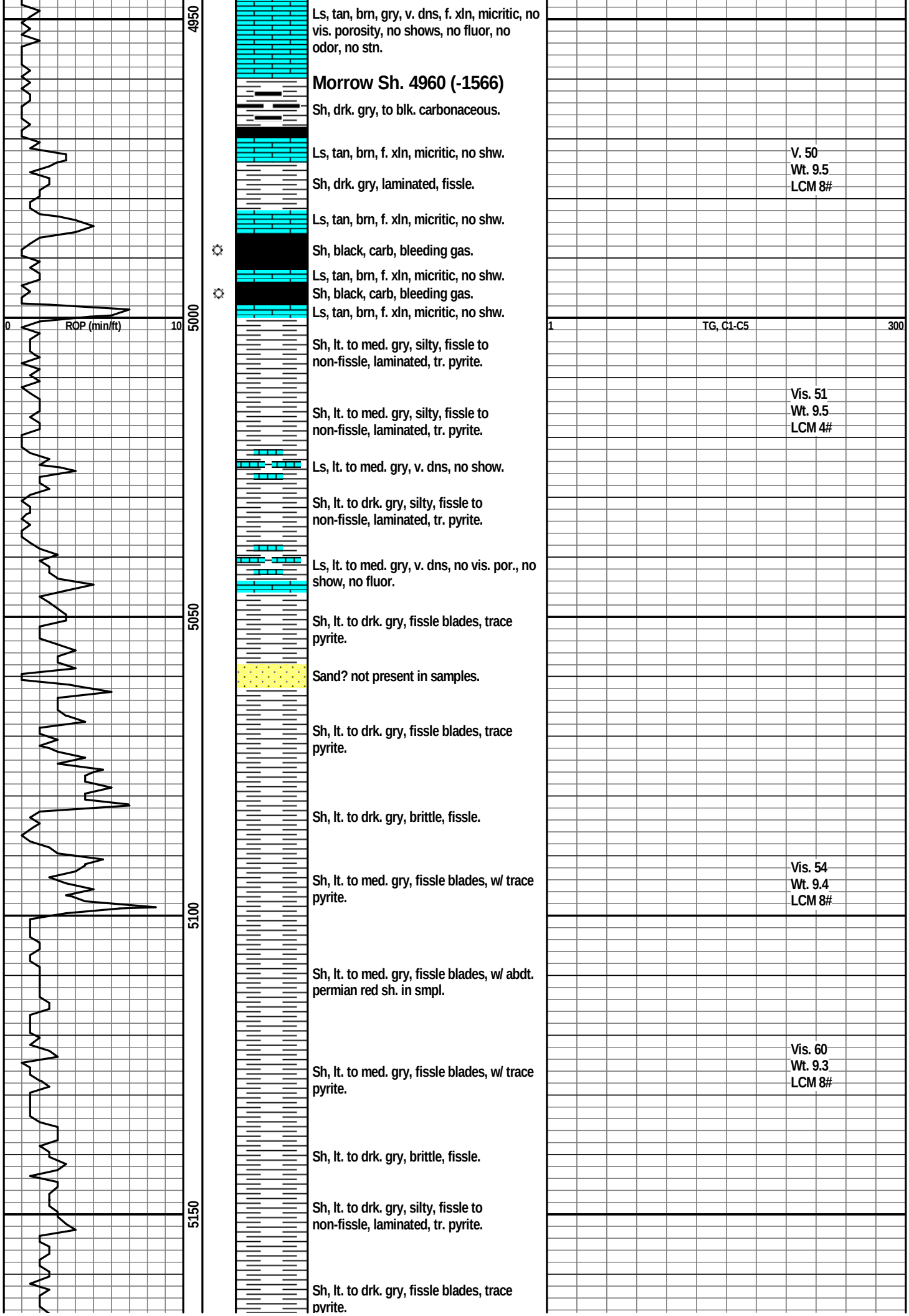
## ROCK TYPES

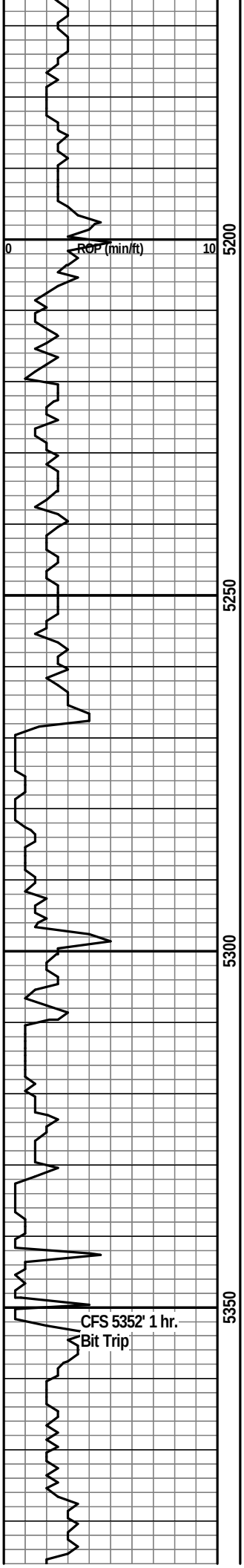



dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining, w/ abdt. red & gry. shale.
Ls, buff, tan, f-m xln, dns. to brittle, p-f dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining, w/ abdt. red & gry. shale.
Ls, buff, tan, f-m xln, dns. to brittle, p-f dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining, w/ abdt. red & gry. shale.
Ls, buff, tan, f-m xln, dns. to brittle, p-f dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining, w/ abdt. red & gry. shale.
Ls, buff, tan, lt. gry, f. xln, dns. to sub-chalky, p. dev. int. xln. porosity, no shows, no fluor, no odor, no staining.
Vis. 56
Wt. 9.4
LCM 6#
4300
4350
4400
4450
4500
0
ROP (min/ft)
10
1
TG, C1-C5
300
Ls, buff, tan, lt. gry, f. xln, dns. to sub-chalky, p. dev. int. xln. porosity, no shows, no fluor, no odor, no staining.
56 SPM
1200 PSI
Sh, med. gry, soft, fissle.
Ls, buff, tan, lt. gry, f. xln, dns. to sub-chalky, p. dev. int. xln. porosity, no shows, no fluor, no odor, no staining.
Ls, buff, tan, lt. gry, f. xln, dns. to sub-chalky, p. dev. int. xln. por., no shows, no fluor, no odor, no staining, w/ drk. brn. chert.
Cherokee Sh. 4462 (-1068)
Sh, black, carbonaceous.
Ls, buff, tan, lt. gry, f. xln, dns. to sub-chalky, p. dev. int. xln. porosity, no shows, no fluor, no odor, no staining.
Sh, med. gry, soft, fissle.
Ls, buff, tan, lt. gry, f. xln, dns. to sub-chalky, p. dev. int. xln. porosity, no shows, no fluor, no odor, no staining.


Sh. & siltstone, lt. to med. gry, sandy in part, no shows, no fluor, no odor, no staining.
Sh. & siltstone, lt. to med. gry, sandy in part, no shows, no fluor, no odor, no staining.
Ls, buff, tan, gry, dns, f. xln, p. dev. int. xln. porosity, no shows, no fluor, no odor, no staining, w/ abdt. red and gry shale in sample.
Sh, med. to drk. gry, black carb., brittle, fissle, laminated.
Sh, med. to drk. gry, black carb., brittle, fissle, laminated.
Ls, buff, tan, f. xln, dns, p. dev. int. xln. porosity, no shows, no fluor.
Ls, buff, tan, lt. gry, dns, to brittle, f-m. xln, p. dev. int. xln. porosity, no shows, no fluor, no oodor, no staining, w/ abdt. drk. gry shale.
Ls, buff, tan, lt. gry, dns, to brittle, f-m. xln, p. dev. int. xln. porosity, no shows, no fluor, no oodor, no staining, w/ abdt. drk. gry shale.
Ls, buff, tan, f-m xln, dns. to brittle, p-f dev. int. xln. porosity, no shows, no fluor, no odor, no staining, w/ abdt. gry. shale.
Sh, med. to drk. gry, fissle, brittle.
Ls, buff, tan, lt. gry, dns, to brittle, f-m. xln, p. dev. int. xln. porosity, no shows, no fluor, no oodor, no staining, w/ abdt. drk. gry shale.
Ls, buff, tan, lt. gry, dns, to brittle, f-m. xln, p. dev. int. xln. porosity, no shows, no fluor, no oodor, no staining, w/ abdt. drk. gry shale.
Ls, tan, buff, gry, f. xln, foss., p. dev. int. xln. & vug. por., no shows, no fluor, no odor, no staining.
Ls, tan, buff, gry, f. xln, foss., p. dev. int. xln. & vug. por., no shows, no fluor, no odor, no staining.
Ls, med. gry, f-m xln, granular, p. dev. int.
4550
4600
4650
4700
0
ROP (min/ft)
10
1
TG, C1-C5
300
Vis. 56
Wt. 9.4
LCM 10#
Wt. 9.6
Vis. 50
LCM 8#
Mud-Co Report @ 4597'
Wt. 9.4
Vis. 53
PH 10.5
W.L. 7.2
Chl. 400
LCM 10#
W.O.B. 16 K
RPM 95
PSI 1200#
SPM 52


xln. porosity, no shows, no fluor, no odor, no staining, w/ abdt. drk. gry. shale.
Vis. 49
At. 9.3
LCM 10#
Sh, med. to drk. gry, fissle, brittle.
Ls, med. gry, f-m xln, arg., p. dev. int. xln. porosity, no shows, no fluor, no odor, no staining, w/ abdt. drk. gry. shale.
Sh, med. to drk. gry, fissle, brittle.
Ls, med. gry, f-m xln, arg., p. dev. int. xln. porosity, no shows, no fluor, no odor, no staining, w/ abdt. drk. gry. shale.
Ls, buff, tan, gry, f. xln, arg., & shaley, p. dev. to no vis. porosity, no shows, trace. tan chert.
4750
4800
4850
4900
0
ROP (min/ft)
10
1
TG, C1-C5
300
Ls, buff, tan, gry, f. xln, arg., & shaley, p. dev. to no vis. porosity, no shows, trace. tan chert.
Atoka Shale 4831 (-1437)
Sh, black, carb., bleeding abdt. gas.
Ls, tan, brn, f. xln, micritic, no vis. porosity, no shows, no fluor, no odor, no staining.
Sh. med. to drk. gry, brn, calc., fissle to non-fissle, laminated.
Ls, tan, brn, f. xln, micritic, no vis. porosity, no shows, no fluor, no odor, no staining.
Sh, drk. gry. to blk. carb, brittle, fissle, laminated, bleeding gas
Ls, tan, brn, f. xln, micritic, no shw.
Sh, drk. gry. to blk. carb, brittle, fissle, laminated, bleeding gas
Sh, drk. gry. to blk. carb, brittle, fissle, laminated, bleeding gas.
Vis. 50
Wt. 9.3
LCM10#
Ls, buff, tan, gry, f. xln, dns, p. dev. to no vis. por., no shows, no fluor, no odor, no stn, w/ abdt. gry. sh.
Sh, & siltstone, grn., gry, v. brittle, calcareous, laminated.
Ls, tan, brn, f. xln, micritic, no shw.
Ls, tan, brn, v. dns, f. xln, micritic, no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, tan, brn, v. dns, f. xln, micritic, no vis. porosity, no shows, no fluor, no odor, no staining.


4950
5000
5050
5100
5150
0
ROP (min/ft)
10
1
TG, C1-C5
300
Ls, tan, brn, gry, v. dns, f. xln, micritic, no vis. porosity, no shows, no fluor, no odor, no stn.
Morrow Sh. 4960 (-1566)
Sh, drk. gry, to blk. carbonaceous.
Ls, tan, brn, f. xln, micritic, no shw.
Sh, drk. gry, laminated, fissle.
Ls, tan, brn, f. xln, micritic, no shw.
Sh, black, carb, bleeding gas.
Ls, tan, brn, f. xln, micritic, no shw.
Sh, black, carb, bleeding gas.
Ls, tan, brn, f. xln, micritic, no shw.
Sh, lt. to med. gry, silty, fissle to non-fissle, laminated, tr. pyrite.
Sh, lt. to med. gry, silty, fissle to non-fissle, laminated, tr. pyrite.
Ls, lt. to med. gry, v. dns, no show.
Sh, lt. to drk. gry, silty, fissle to non-fissle, laminated, tr. pyrite.
Ls, lt. to med. gry, v. dns, no vis. por., no show, no fluor.
Sh, lt. to drk. gry, fissle blades, trace pyrite.
Sand? not present in samples.
Sh, lt. to drk. gry, fissle blades, trace pyrite.
Sh, lt. to drk. gry, brittle, fissle.
Sh, lt. to med. gry, fissle blades, w/ trace pyrite.
Sh, lt. to med. gry, fissle blades, w/ abdt. permian red sh. in smpl.
Sh, lt. to med. gry, fissle blades, w/ trace pyrite.
Sh, lt. to drk. gry, brittle, fissle.
Sh, lt. to drk. gry, silty, fissle to non-fissle, laminated, tr. pyrite.
Sh, lt. to drk. gry, fissle blades, trace pyrite.
V. 50
Wt. 9.5
LCM 8#
Vis. 51
Wt. 9.5
LCM 4#
Vis. 54
Wt. 9.4
LCM 8#
Vis. 60
Wt. 9.3
LCM 8#




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

Sh, lt. to drk. gry, fissle blades, trace pyrite.

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

Sh, lt. to drk. gry, silty, fissle laminated, tr. pyrite.

Sh, lt. to med. gry, fissle blades, w/ abdt. permian red sh. in smpl.

Sh, lt. to drk. gry, silty, fissle laminated, tr. pyrite.

Sh, lt. to med. gry, fissle blades, w/ abdt. permian red sh. in smpl.

Sh, lt. to drk. gry, silty, fissle laminated, tr. pyrite.

Sh, lt. to drk. gry, fissle blades, trace pyrite.

**L Mrw Mkr Sd 5297 (-1903)**

SS, tan, calcareous, grading to sandy limestone, c-vc gr. sand in tray, sub-rd. to sub-ang, glauc., no shows, no fluor, no odor, no stn.

Sh, med. to drk. gry, fissle blades, trace pyrite.

Ls, buff, tan, v. sandy w/ c-vc gr. sand in tray, no shows, no fluor, no odor, no staining.

Sh, med. to drk. gry, fissle blades, trace pyrite, w/ abdt. c-vc gr. sand.

Sh, med. to drk. gry, fissle blades, trace pyrite, w/ abdt. c-vc gr. sand.

Sh, med. to drk gry, laminated.

Sh, med. to drk. gry, fissle blades.

**Keyes Sd Por. 5385 (-1991)**

SS, gry, tan, f. gr, sub-ang. to sub-rd, well

1 TG, C1-C5 300

Vis. 60
Wt. 9.4
LCM 8#

Vis. 62
Wt. 9.4
LCM 9#

Vis. 55
Wt. 9.4
LCM 9#

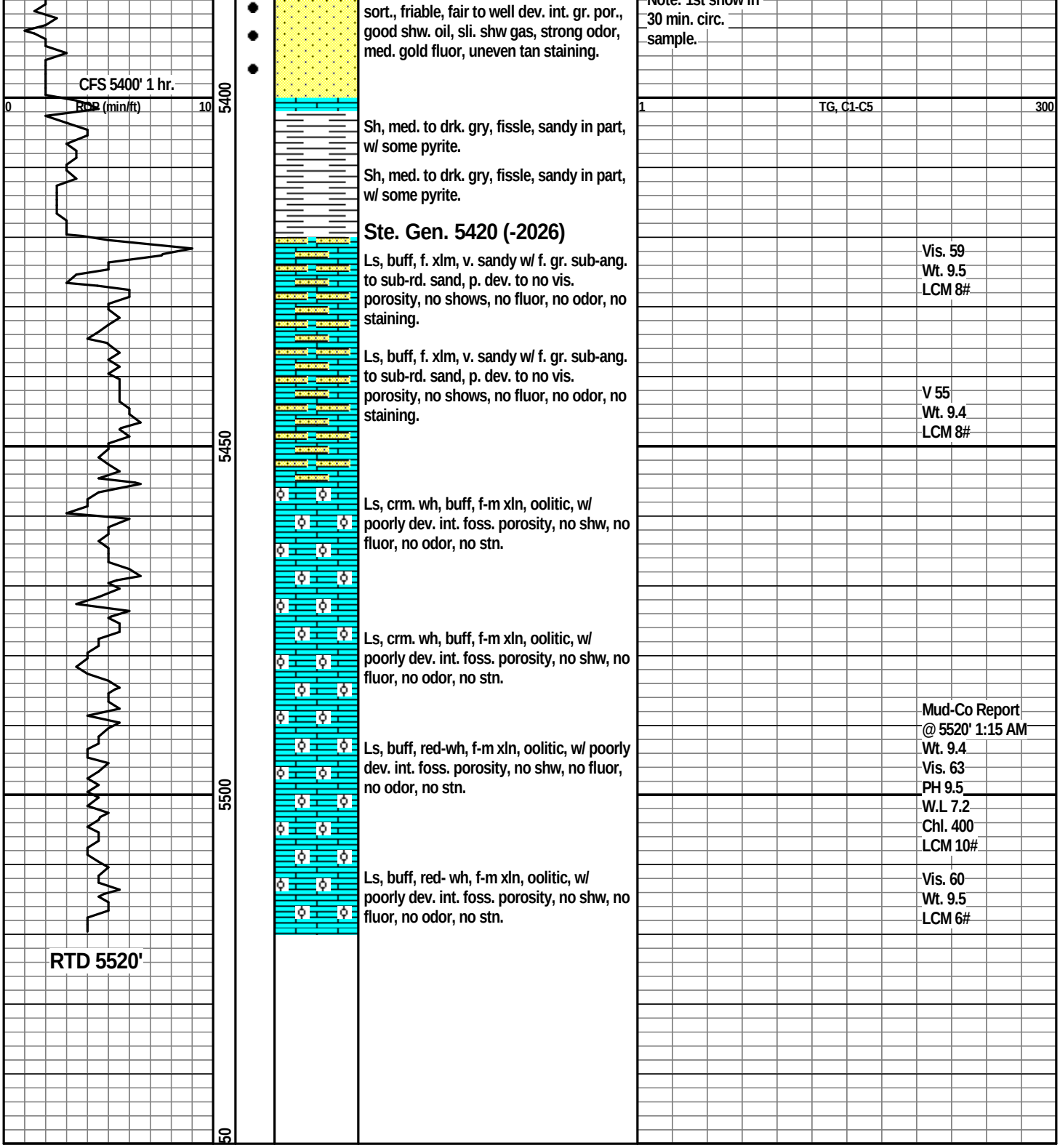
50 SPM
1200 PSI

Mud-Co report
@ 5311'
Wt. 9.5
Vis. 54
PH 10.0
W.L. 8.0
Chl. 400
LCM 10#

Strap 2.13' short to board.
Survey 2 3/4 degrees.

Vis. 60
Wt. 9.3
LCM 8#

Note: 1st show in


CFS 5400' 1 hr.
0
ROP (min/ft)
10
5400
5450
5500
50
RTD 5520'
sort., friable, fair to well dev. int. gr. por., good shw. oil, sli. shw gas, strong odor, med. gold fluor, uneven tan staining.
Sh, med. to drk. gry, fissle, sandy in part, w/ some pyrite.
Sh, med. to drk. gry, fissle, sandy in part, w/ some pyrite.
Ste. Gen. 5420 (-2026)
Ls, buff, f. xlm, v. sandy w/ f. gr. sub-ang. to sub-rd. sand, p. dev. to no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, buff, f. xlm, v. sandy w/ f. gr. sub-ang. to sub-rd. sand, p. dev. to no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, crm. wh, buff, f-m xln, oolitic, w/ poorly dev. int. foss. porosity, no shw, no fluor, no odor, no stn.
Ls, crm. wh, buff, f-m xln, oolitic, w/ poorly dev. int. foss. porosity, no shw, no fluor, no odor, no stn.
Ls, buff, red-wh, f-m xln, oolitic, w/ poorly dev. int. foss. porosity, no shw, no fluor, no odor, no stn.
Ls, buff, red- wh, f-m xln, oolitic, w/ poorly dev. int. foss. porosity, no shw, no fluor, no odor, no stn.
Note: 1st show in 30 min. circ. sample.
1
TG, C1-C5
300
Vis. 59
Wt. 9.5
LCM 8#
V 55
Wt. 9.4
LCM 8#
Mud-Co Report
@ 5520' 1:15 AM
Wt. 9.4
Vis. 63
PH 9.5
W.L 7.2
Chl. 400
LCM 10#
Vis. 60
Wt. 9.5
LCM 6#