



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1186424
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1186424

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Electric Log Run | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| List All E. Logs Run: | | | | |

| CASING RECORD <input 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

| 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 |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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: <input type="checkbox"/> Vented <input 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 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 <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|--------------------------|
| Form | ACO1 - Well Completion |
| Operator | Rama Operating Co., Inc. |
| Well Name | LICHOLAT 1-27 |
| Doc ID | 1186424 |

Tops

| Name | Top | Datum |
|---------------|------|-------|
| Heebner | 3348 | -1468 |
| Toronto | 3364 | -1484 |
| Douglas | 3388 | -1508 |
| Brown Lime | 3502 | -1622 |
| Lansing | 3524 | -1644 |
| Viola | 3942 | -2062 |
| Simpson Shale | 4061 | -2181 |
| Arbuckle | 4123 | -2243 |
| RTD | 4184 | -2304 |

BASIC

energy services, L.P.

TREATMENT REPORT

| | | |
|--------------------------------------|----------------------------|--------------------------------------|
| Customer <i>RAMIA</i> | Lease No. | Date <i>01-26-14</i> |
| Lease <i>LICKLAT</i> | Well # <i>1-27</i> | |
| Field Order # <i>3790</i> | Station <i>PRATT KS</i> | Casing <i>8 7/8</i> |
| Type Job <i>CNW 8 7/8 Surface</i> | Depth <i>354'</i> | County <i>STAFFORD</i> |
| | Formation | State <i>KS</i> |
| | | Legal Description <i>27-29-12</i> |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|--------------------------------|--------------|------------------|----|------------|------------|------------------|-------|------------------|
| Casing Size <i>8 7/8</i> | Tubing Size | Shots/Ft | | Acid | | RATE | PRESS | ISIP |
| Depth <i>354</i> | Depth | From | To | Pre Pad | Max | | | 5 Min. |
| Volume <i>21</i> | Volume | From | To | Pad | Min | | | 10 Min. |
| Max Press <i>300</i> | Max Press | From | To | Frac | Avg | | | 15 Min. |
| Well Connection <i>P.C.</i> | Annulus Vol. | From | To | | HHP Used | | | Annulus Pressure |
| Plug Depth <i>354'</i> | Packer Depth | From | To | Flush | Gas Volume | | | Total Load |

| | | |
|---|--------------------------------------|----------------------------------|
| Customer Representative | Station Manager <i>DAVE SCOTT</i> | Treater <i>Robert Lillard</i> |
| Service Units <i>37900 33708 20920 19826 73268</i> | | |
| Driver Names <i>Sullivan Graves Young</i> | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-----------------|-----------------|-----------------|--------------|------------|--|
| <i>12:00 AM</i> | | | | | <i>on to sdg, next</i> |
| | | | | | <i>Run 8 7/8 Surface csg.</i> |
| <i>2:25</i> | | | | | <i>CASING ON BOTTOM</i> |
| <i>2:35</i> | | | | | <i>Hook by circ csg.</i> |
| <i>2:40</i> | | | <i>3</i> | <i>3</i> | <i>st spacer</i> |
| | | | <i>65</i> | <i>4.5</i> | <i>mix A-COD CNT 150 sk 3%cc 1/4cf</i> |
| | | | <i>21</i> | | <i>mix Tail CNT 100 sk comwd 3%cc 2%pd 1/4cf</i> |
| | | | | | <i>cnt mix D shut down</i> |
| | | | | | <i>Release Plug</i> |
| | | | | | <i>st Plug</i> |
| <i>3:15</i> | <i>200</i> | | <i>21</i> | | <i>Plug down</i> |
| | | | | | <i>circ 15 BBL cnt PIT</i> |
| | | | | | <i>JOB Complete</i> |
| | | | | | <i>THANK YOU</i> |

| | | |
|--------------------------------------|--------------------------|------------------------------------|
| Customer Rama Operating Co., Inc. | Lease No. Well # 1-27 | Date 1-31-14 |
| Lease Licholat | | |
| Field Order # 1853 | Station Pratt, Kansas | Casing 4 1/2" Drill Pipe |
| Type Job C.N.W. Plug To Abandon | Formation | County Stafford State Kansas |
| | | Legal Description 27-245-12W |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | | |
|-----------------|--------------|------------------|------|------------|-------|------------------------------|------------|----------|------------------|
| Casing Size | Tubing Size | Shots/Ft | From | To | With | Acid | RATE | PRESS | ISIP |
| | 12" Drill | 220 sacs | | | | 60/40 Poz cement | | | 5 Min. |
| Depth | Depth | From | To | With | | 48 Total Gal | Max | | |
| Volume | Volume | From | To | 13.8L | | 6.1 Gal., 6.92 Gal. | Min | 1.43 CU. | 10 Min./sk |
| Max Press | Max Press | From | To | | | | Avg | | 15 Min. |
| Well Connection | Annulus Vol. | From | To | | | | HHP Used | | Annulus Pressure |
| X- Hole | | | | | | | | | |
| Plug Depth | Packer Depth | From | To | | Flush | Drilling mud and fresh water | Gas Volume | | Total Load |

| | | |
|----------------------------------|----------------------------------|--------------------------------|
| Customer Representative Allen | Station Manager Kevin Gordley | Treater Clarence R. Messick |
|----------------------------------|----------------------------------|--------------------------------|

| | | | | | |
|---------------|---------|--------|--------|--------|--------|
| Service Units | 28,443 | 77,686 | 19,905 | 70,959 | 19,918 |
| Driver Names | Messick | McGraw | Phye | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-------|-----------------|-----------------|--------------|------|--|
| 10:30 | | | | | Trucks on location and hold safety meeting |
| | | | | | 1 st / Plug 4,125 Feet - 50 sacs cement |
| 11:03 | | 500 | | 6 | Start Fresh water Pre-Flush. |
| | | | 20 | 5 | Start Mixing cement |
| | | | 32 | 5 | Start Fresh water Displacement. |
| | | 500 | 42 | 5 | Start Drilling mud Displacement. |
| 11:19 | | -0- | 95 | | Stop pumping. |
| | | | | | 2 nd / Plug 720 Feet - 50 sacs cement |
| 1:19 | | 300 | | 5 | Start Fresh water Pre-Flush. |
| | | " | 8 | 5 | Start Mixing cement. |
| | | 300 | 20 | 5 | Start Fresh water Displacement. |
| 1:24 | | -0- | 24 | | Stop pumping. |
| | | | | | 3 rd / Plug 390 Feet - 50 sacs cement. |
| 1:41 | | 200 | | 5 | Start Mixing cement. |
| | | 200 | 12 | 5 | Start Fresh water Displacement. |
| 1:44 | | -0- | 14 | | Stop pumping. |
| | | | | | 4 th / Plug 60 Feet - 20 sacs cement. |
| 2:50 | | 100 | | 3 | Start Mixing cement. |
| 2:52 | | | 5 | | Cement circulated to surface. Stop pumping. |
| 3:10 | | | 7-5 | 3 | Plug Rat and Mouse holes. |
| | | | | | Wash up pump truck. |
| 3:30 | | | | | Job Complete. |



Joshua R. Austin

Petroleum Geologist

report for

RAMA Operating CO., Inc



COMPANY: RAMA Operating Company, Inc.

LEASE: Licholat #1-27

FIELD: North Star

LOCATION: SW-NE-SE-SE (700' FSL & 350' FEL)

SEC: 27 TWSP: 24s RGE: 12w

COUNTY: Stafford STATE: Kansas

KB: 1880' GL: 1867'

API # 15-185-23857-00-00

CONTRACTOR: Sterling Drilling (rig #5)

Spud: 01/25/2014 Comp: 01/31/2014

RTD: 4180 LTD: 4184

Mud Up: 2900' Type Mud: Chemical was displaced

Samples Saved From: 2800' to RTD
 Drilling Time Kept From: 2800' to RTD
 Samples Examined From: 2800' to RTD
 Geological Supervision From: 3200' to RTD
 Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @356'
 Production Casing: None

Electronic Surveys: By Pioneer Energy Services

NOTES

On the basis of the poor structural position, lack of shows and after evaluating the electric logs, it was recommended by all parties involved to plug and abandon the Licholat #1-27 at the rotary total depth 4180'.

RAMA Operating Co., Inc.


well comparison sheet

DRILLING WELL

COMPARISON WELL

COMPARISON WELL

| Licholat 1-27 | | | | | Dale #1 | | | | Budde #3 | | | | | | | |
|---------------|--------|---------|------|---------|---------|---------|--------|-----|-------------------------|---------|---------|-----|-----|--|-------------------------|--|
| 1880 KB | | | | | 1872 KB | | | | Structural Relationship | | 1882 KB | | | | Structural Relationship | |
| Formation | Sample | Sub-Sea | Log | Sub-Sea | Log | Sub-Sea | Sample | Log | Log | Sub-Sea | Sample | Log | | | | |
| Heebner | 3344 | -1464 | 3348 | -1468 | | | | | | 3338 | -1456 | -8 | -12 | | | |
| Toronto | 3355 | -1475 | 3364 | -1484 | | | | | | | | | | | | |
| Douglas | 3378 | -1498 | 3388 | -1508 | | | | | | 3390 | -1508 | 10 | 0 | | | |
| Brown Lime | 3500 | -1620 | 3502 | -1622 | | | | | | 3501 | -1619 | -1 | -3 | | | |
| Lansing | 3528 | -1648 | 3524 | -1644 | 3520 | -1648 | 0 | 4 | | 3521 | -1639 | -9 | -5 | | | |
| Viola | 3942 | -2062 | 3942 | -2062 | 3950 | -2078 | 16 | 16 | | 3934 | -2052 | -10 | -10 | | | |
| Simpson Shale | 4060 | -2180 | 4061 | -2181 | 4061 | -2189 | 9 | 8 | | 4058 | -2176 | -4 | -5 | | | |
| Arbuckle | 4125 | -2245 | 4123 | -2243 | 4124 | -2252 | 7 | 9 | | | | | | | | |
| Total Depth | 4180 | -2300 | 4184 | -2304 | 4151 | -2279 | | | | 4082 | -2200 | | | | | |



DRILL STEM TEST REPORT

Rama Oper. Co. Inc. 27-24s-12w Stafford co.

101 S. Main St. Licholat #1-27

Stafford, Ks. 67578 Job Ticket: 51929 DST#: 1

ATTN: Josh Austin Test Start: 2014.01.30 @ 00:18:51

GENERAL INFORMATION:

Formation: **Lansing "L"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 02:30:21

Time Test Ended: 06:51:06

Interval: **3750.00 ft (KB) To 3780.00 ft (KB) (TVD)**

Total Depth: 3780.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 53

Reference Elevations: 1880.00 ft (KB)

1867.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6719 Outside

Press@RunDepth: 56.45 psig @ 3751.00 ft (KB)

Start Date: 2014.01.30 End Date: 2014.01.30

Start Time: 00:18:56 End Time: 06:51:05

Capacity: 8000.00 psig

Last Calib.: 2014.01.30

Time On Btm: 2014.01.30 @ 02:28:21

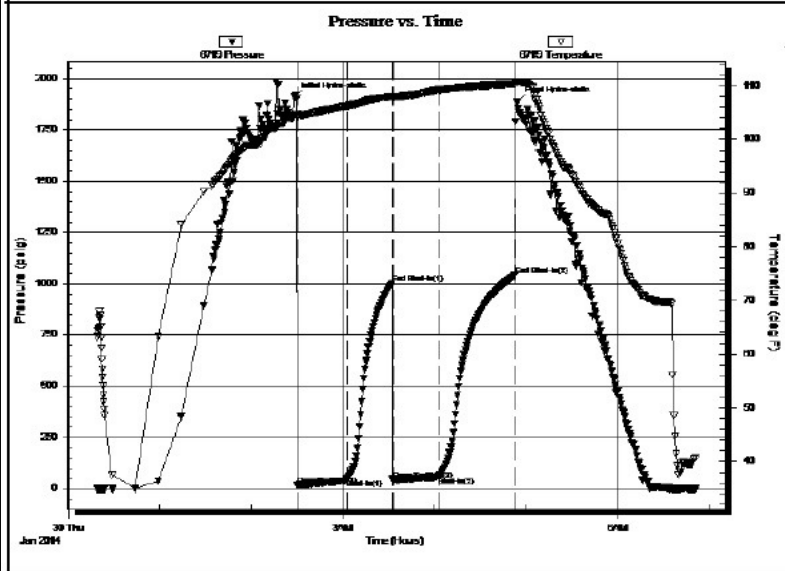
Time Off Btm: 2014.01.30 @ 04:54:51

TEST COMMENT: IF: Weak blow . Surf. - 3 in.

IS: No blow .

FF: Weak blow . Surf. - 2 in.

FSI: No blow .



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| 0 | 1908.43 | 104.31 | Initial Hydro-static |
| 2 | 15.14 | 103.88 | Open To Flow (1) |
| 35 | 45.55 | 106.19 | Shut-In(1) |
| 65 | 1000.49 | 107.99 | End Shut-In(1) |
| 65 | 41.81 | 107.80 | Open To Flow (2) |
| 95 | 56.45 | 109.18 | Shut-In(2) |
| 145 | 1039.76 | 110.34 | End Shut-In(2) |
| 147 | 1883.90 | 110.74 | Final Hydro-static |

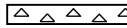







Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 70.00 | SOCM 2%o 98%g | 0.34 |
| 0.00 | Trace of GIP | 0.00 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |

ROCK TYPES

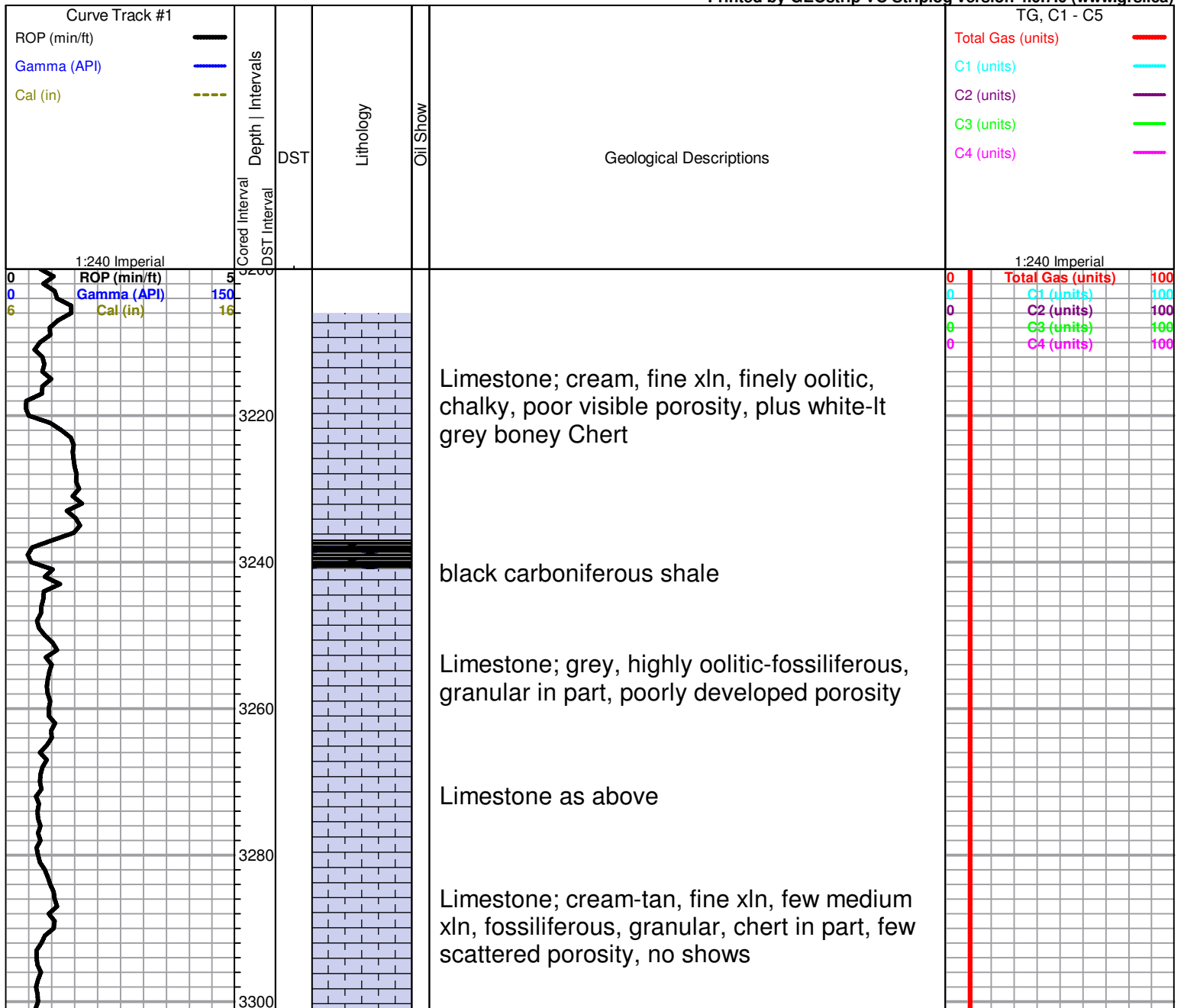
| | | | |
|---|--|--|---|
|  Cht |  Lmst fw7> |  shale, gry |  shale, red |
|  Dolsec |  shale, grn |  Carbon Sh |  Ss |

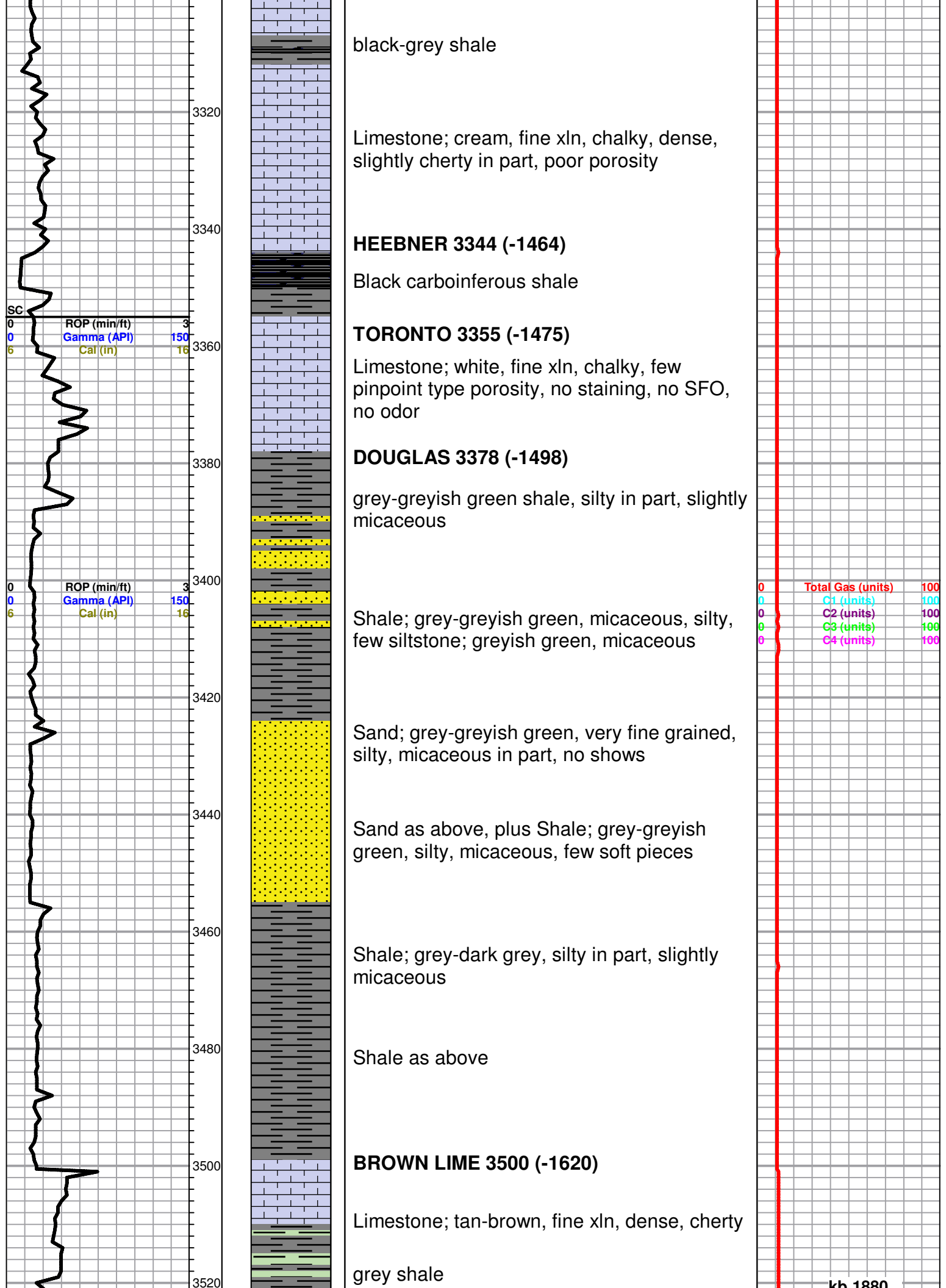
OTHER SYMBOLS

DST

| | |
|---|-----------|
|  | DST Int |
|  | DST alt |
|  | Core |
|  | tail pipe |

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





black-grey shale

Limestone; cream, fine xln, chalky, dense, slightly cherty in part, poor porosity

HEEBNER 3344 (-1464)

Black carboinferous shale

TORONTO 3355 (-1475)

Limestone; white, fine xln, chalky, few pinpoint type porosity, no staining, no SFO, no odor

DOUGLAS 3378 (-1498)

grey-greyish green shale, silty in part, slightly micaceous

Shale; grey-greyish green, micaceous, silty, few siltstone; greyish green, micaceous

Sand; grey-greyish green, very fine grained, silty, micaceous in part, no shows

Sand as above, plus Shale; grey-greyish green, silty, micaceous, few soft pieces

Shale; grey-dark grey, silty in part, slightly micaceous

Shale as above

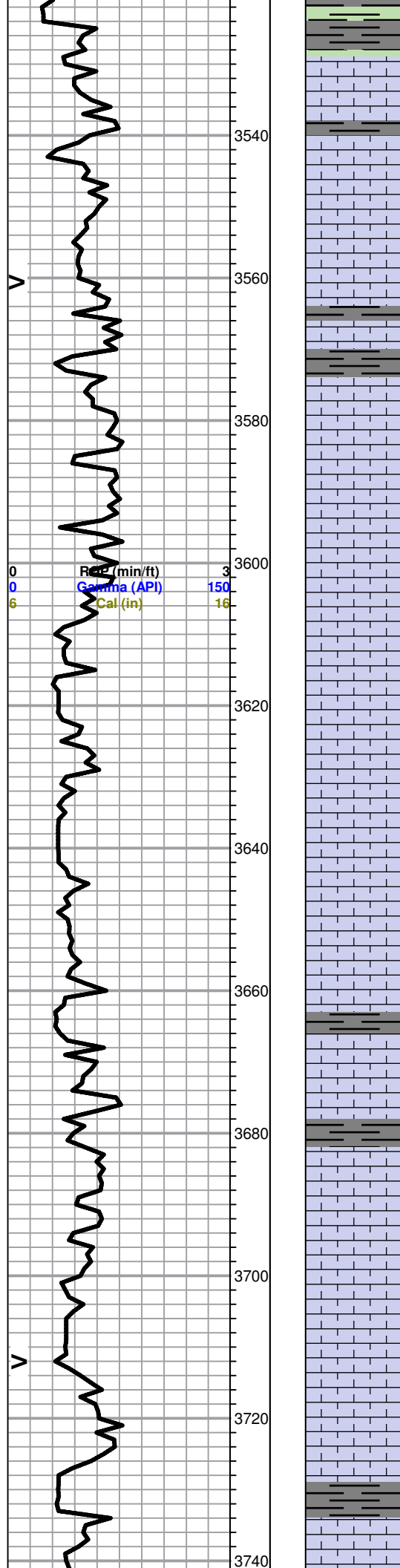
BROWN LIME 3500 (-1620)

Limestone; tan-brown, fine xln, dense, cherty

grey shale

0 Total Gas (units) 100
 0 C1 (units) 100
 0 C2 (units) 100
 0 C3 (units) 100
 0 C4 (units) 100

LANSING 3528 (-1648)



Limestone; cream-grey, fine xln, chalky, dense

Limestone; cream, fine xln, slightly fossiliferous chalky, few scattered inter xln porosity, trace brown stain, trace spotty free oil, faint odor

grey shale

Limestone; lt. grey-white-cream, fine xln, chalky, dense, fossiliferous, poor porosity, no shows

Limestone; buff, fine-medium xln, granular in part, chalky, few scattered inter xln-vuggy type porosity, brown stain, NSFO, faint odor

Limestone; cream-grey, fine-medium xln, chalky in part, slightly granular, fossiliferous poorly developed porosity, no shows

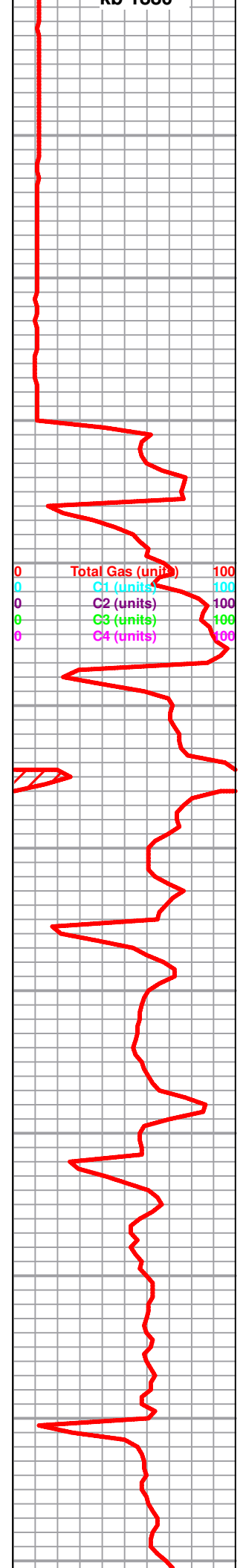
Limestone; lt. grey-white, fine xln, chalky in part, dense, plus white-grey boney Chert

Limestone; cream-white, very chalky, poorly deviated porosity, brown spotty stain, trace spotty free oil, very faint odor

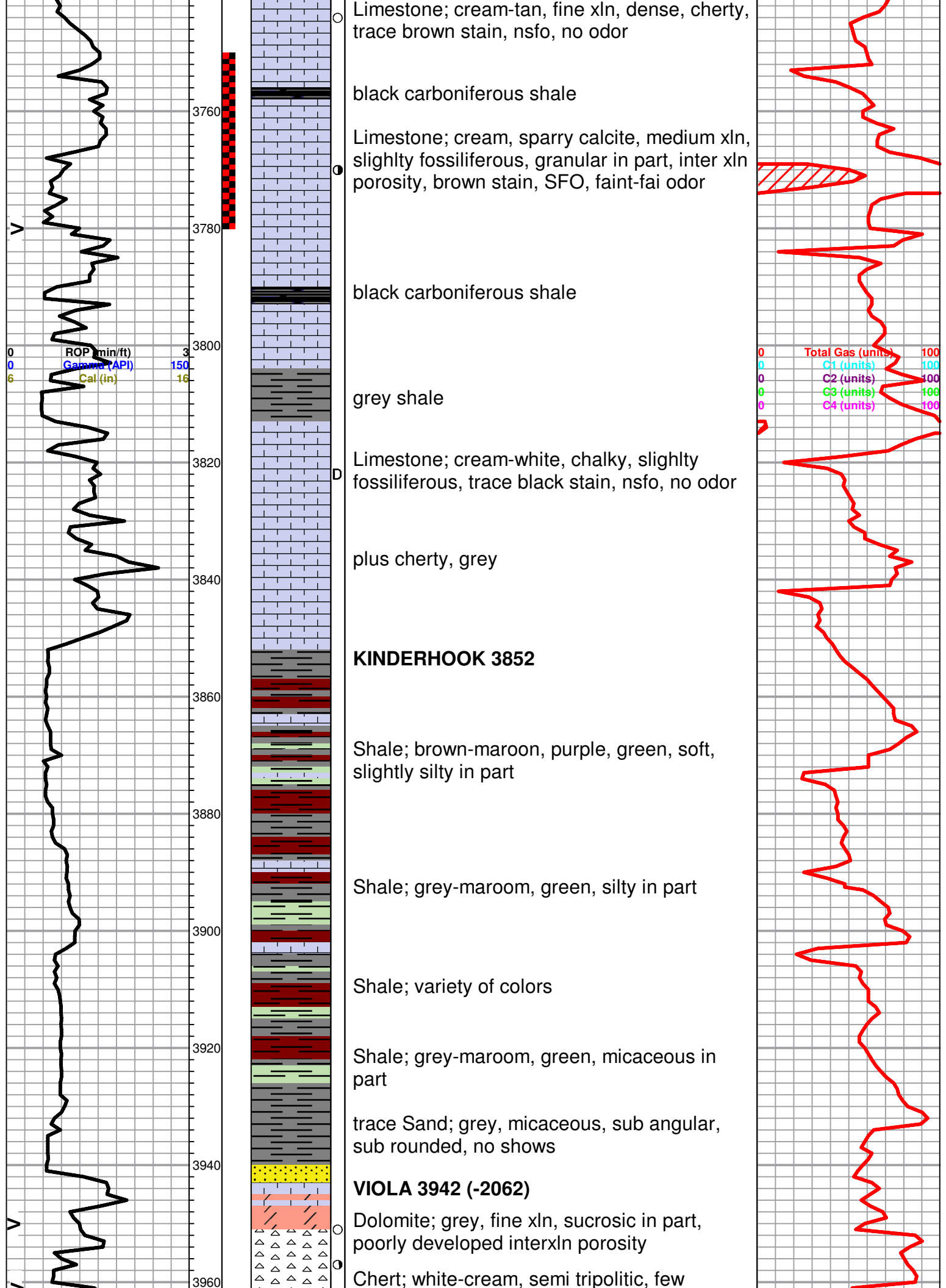
Limestone; cream, fine xln, chalky, dense, no shows

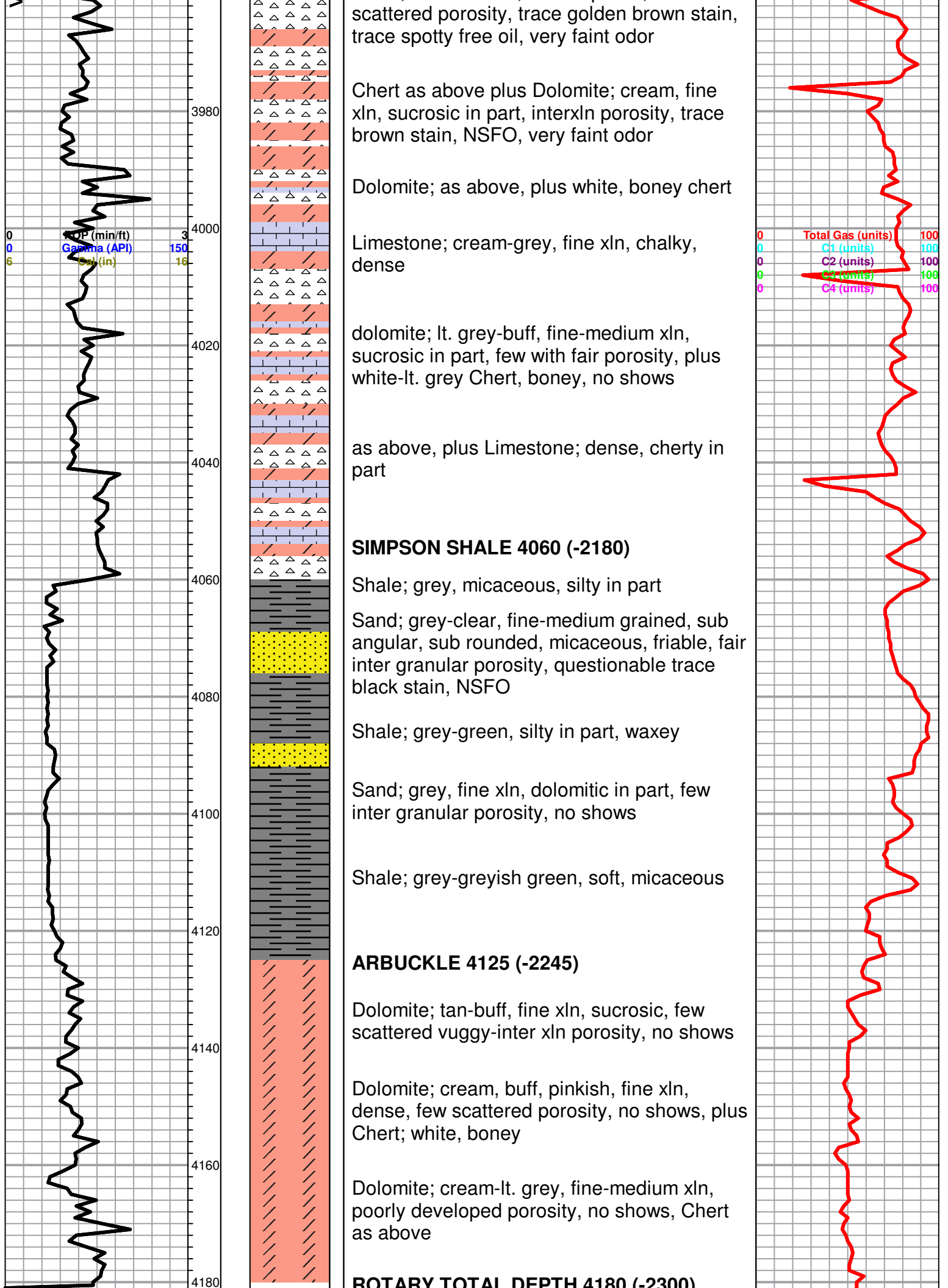
Limestone; cream, oolitic/oomoldic, chalky in part, fair oomoldic porosity, no shows

grey-green shale

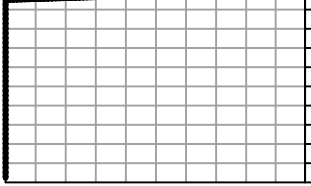
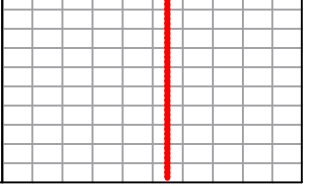


| | | |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units) | 100 |
| 0 | C2 (units) | 100 |
| 0 | C3 (units) | 100 |
| 0 | C4 (units) | 100 |





TOTAL TOTAL DEF 114133 (-2500)

| | | | | |
|--|--|--|--|---|
|  | | | |  |
|--|--|--|--|---|