



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



1153481

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

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

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

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

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | H & D Exploration LLC |
| Well Name | Fritzemeier 1 |
| Doc ID | 1153481 |

All Electric Logs Run

| |
|------------------|
| |
| Computer |
| Dual Compensated |
| Sonic |
| Dual Induction |
| Microresisivity |

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | H & D Exploration LLC |
| Well Name | Fritzemeier 1 |
| Doc ID | 1153481 |

Tops

| Name | Top | Datum |
|---------------|------|-------|
| Howard | 2987 | -1103 |
| Topeka | 3089 | -1205 |
| Heebner | 3416 | -1532 |
| Toront | 3435 | -1551 |
| Douglas | 3448 | -1564 |
| Brown Lime | 3569 | -1685 |
| Lansing | 3591 | -1707 |
| Base KC | 3882 | -1998 |
| Mississippi | 3978 | -2094 |
| Viola | 4032 | -2148 |
| Simpson Shale | 4113 | -2229 |
| Arbuckle | 4187 | -2303 |



Musgrove

**PETROLEUM
CORPORATION**
Clayton, Kansas

COMPANY: H&D Exploration LLC

LEASE: Fritzemeier #1

FIELD: wildcat

LOCATION: W2-NE NE NE (330' FNL & 425' FEL

SEC: 20 **TWSP:** 25s **RGE:** 12w

COUNTY: Stafford **STATE:** Kansas

KB: 1884 **GL:** 1874

API # 15-185-23816-00-00

CONTRACTOR: Southwind Drilling Company (Rig # 1)

Spud: 06-22-2013 **Comp:** 07-01-2013

RTD: 4240' **LTD:** 4239

Mud Up: 2800' **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: 2800'to RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @ 717

Production Casing: 5 1/2" @

Electronic Surveys: By Pioneer Energy Services

NOTES

After reviewing the electric logs and evaluating the drill stem test results, it was recommended by all parties involved in the Fritzemeier #1 to run 5 1/2" production casing to test the Mississippi and Lansing zones.

DST # 1

3600-3628

30-45-45-60

Blow; BOB in 10 seconds, GTS in 3 minutes

no blow back

Final; GTS thru out, stablilized at 255,000 MCF/D

no blow back

Recovery;

150' slightly oil cut gassy, watery, mud (5% oil, 15% gas, 15% water, 65% mud)

360' muddy water (20% gas, 80% water)

Pressure;

ISIP 1307

FSIP 1269

IFP 182-269

FFP 177-292

HSH 1776-1743

DST #2

3730-3825

30-45-45-60

Blow; BOB in 5 minutes

weak blow back

Final; BOB in 9 minutes

good blow back

Recovery;

250' GIP

120' oil gas cut mud (10% oil, 20% gas, 70% mud)

190' gas cut muddy water (10% gas, 15% mud, 75% water)

Pressures;

ISIP 1255

FSIP 1218

IFP 31-96

FFP 101-184

HSH 1862-1837

DST #3

30-30-30-45

3940-4000

Blow; Built to 4"

no blow back

Final; Built to 4"

no blow back

Recovery;

30' GIP

30' mud

Pressures;

ISIP 126

FSIP 283

IFP 20-22

FFP 20-24

HSH 1985-1916

H&D Exploration, LLC

Sample and Log Tops

DRILLING WELL

Fritzemeier #1

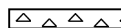








W2-NE-NE-NE

Sec: 20 Twp:25s Rge: 12w

1884 KB

| Formation | Sample | Sub-Sea | Log | Sub-Sea |
|---------------|--------|---------|------|---------|
| Howard | 2987 | -1103 | 2985 | -1101 |
| Topeka | 3089 | -1205 | 3076 | -1192 |
| Heebner | 3416 | -1532 | 3464 | -1580 |
| Toronto | 3435 | -1551 | 3431 | -1547 |
| Douglas | 3448 | -1564 | 3448 | -1564 |
| Brown Lime | 3569 | -1685 | 3565 | -1681 |
| Lansing | 3591 | -1707 | 3588 | -1704 |
| Base KC | 3882 | -1998 | 3876 | -1992 |
| Mississippi | 3978 | -2094 | 3978 | -2094 |
| Viola | 4032 | -2148 | 4032 | -2148 |
| Simpson Shale | 4113 | -2229 | 4112 | -2228 |
| Simpson Sand | 4132 | -2248 | 4130 | -2246 |
| Arbuckle | 4187 | -2303 | 4186 | -2302 |
| Total Depth | 4240 | -2356 | 4239 | -2355 |

ROCK TYPES

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




ACCESSORIES

MINERAL





 Varicolored chert

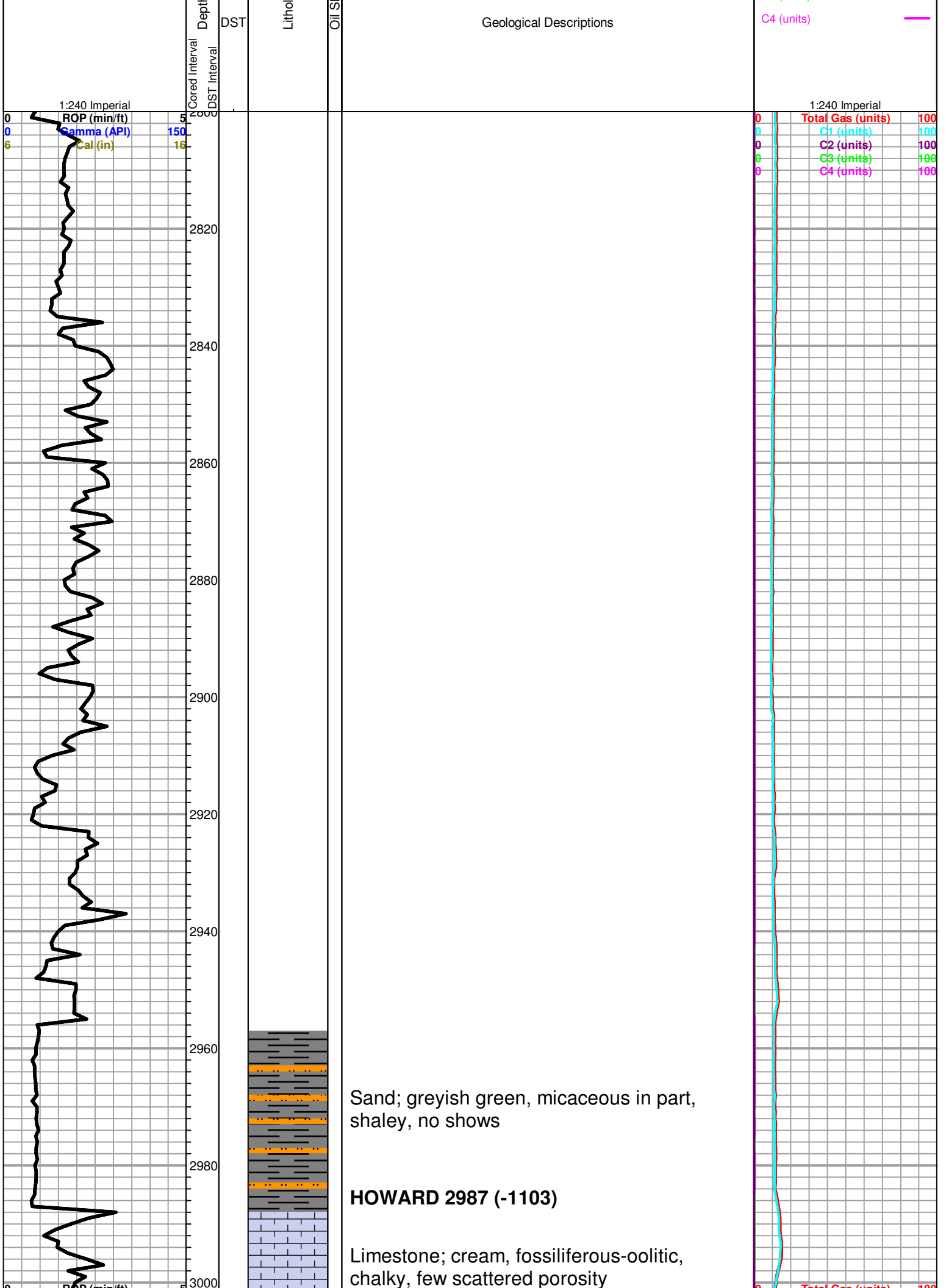
OTHER SYMBOLS

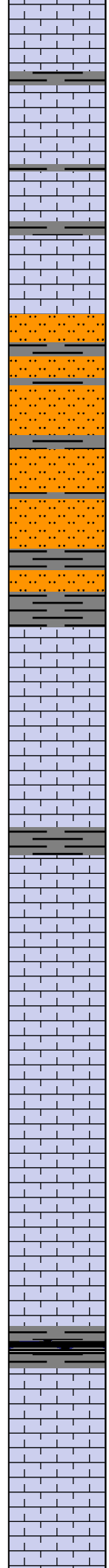
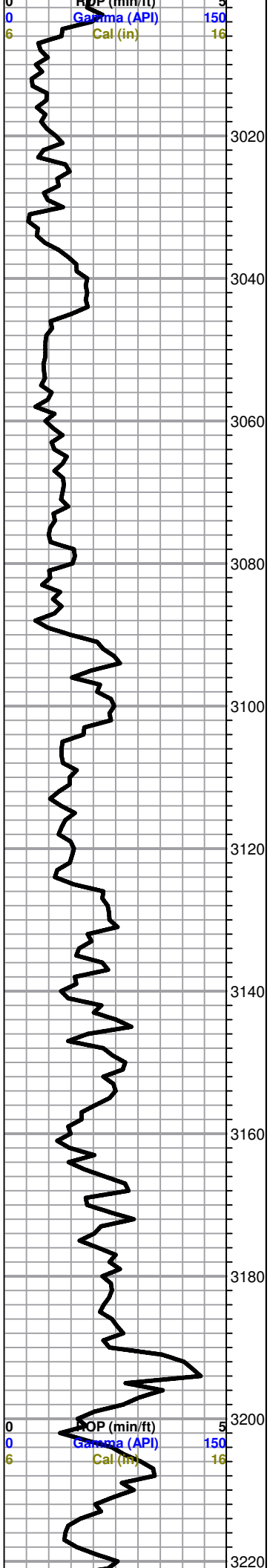
DST

 DST Int
 DST alt
 Core
 tail pipe

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

| Curve Track #1 | ROP (min/ft) | Gamma (API) | Cal (in) | Intervals | ogy | now | TG, C1 - C5 |
|----------------|---|---|---|-----------|-----|-----|---|
| |  |  |  | | | | Total Gas (units)  |
| | | | | | | | C1 (units)  |
| | | | | | | | C2 (units)  |
| | | | | | | | C3 (units)  |





questionable trace golden brown stain, NSFO

Limestone; cream-lt. grey, fine xln, chalky, fossiliferous, poor visible porosity

Limestone; as above

Shale; grey-greish green, silty in part

Shale as above plus Sand; greyish green, shaley, no shows

TOPEKA 3089 (-1205)

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

grey-dark grey shale

Limestone; cream-tan, fine-medium xln, fossiliferous, granular in part, fair inter xln-fossil cast type porosity

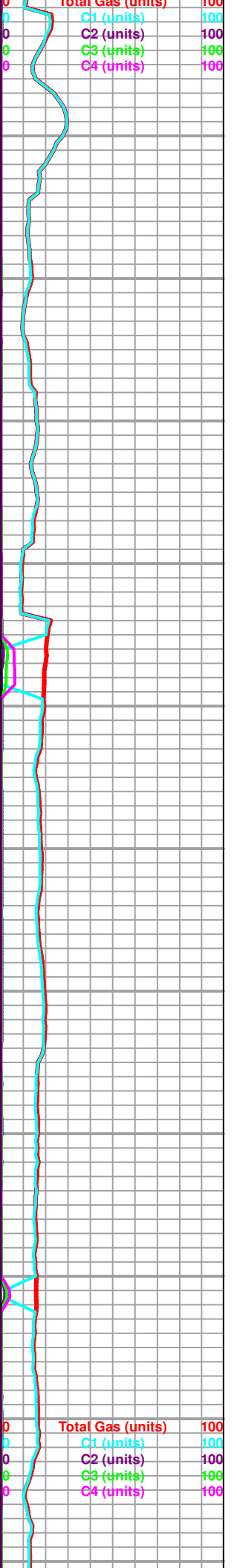
Limestone; as above

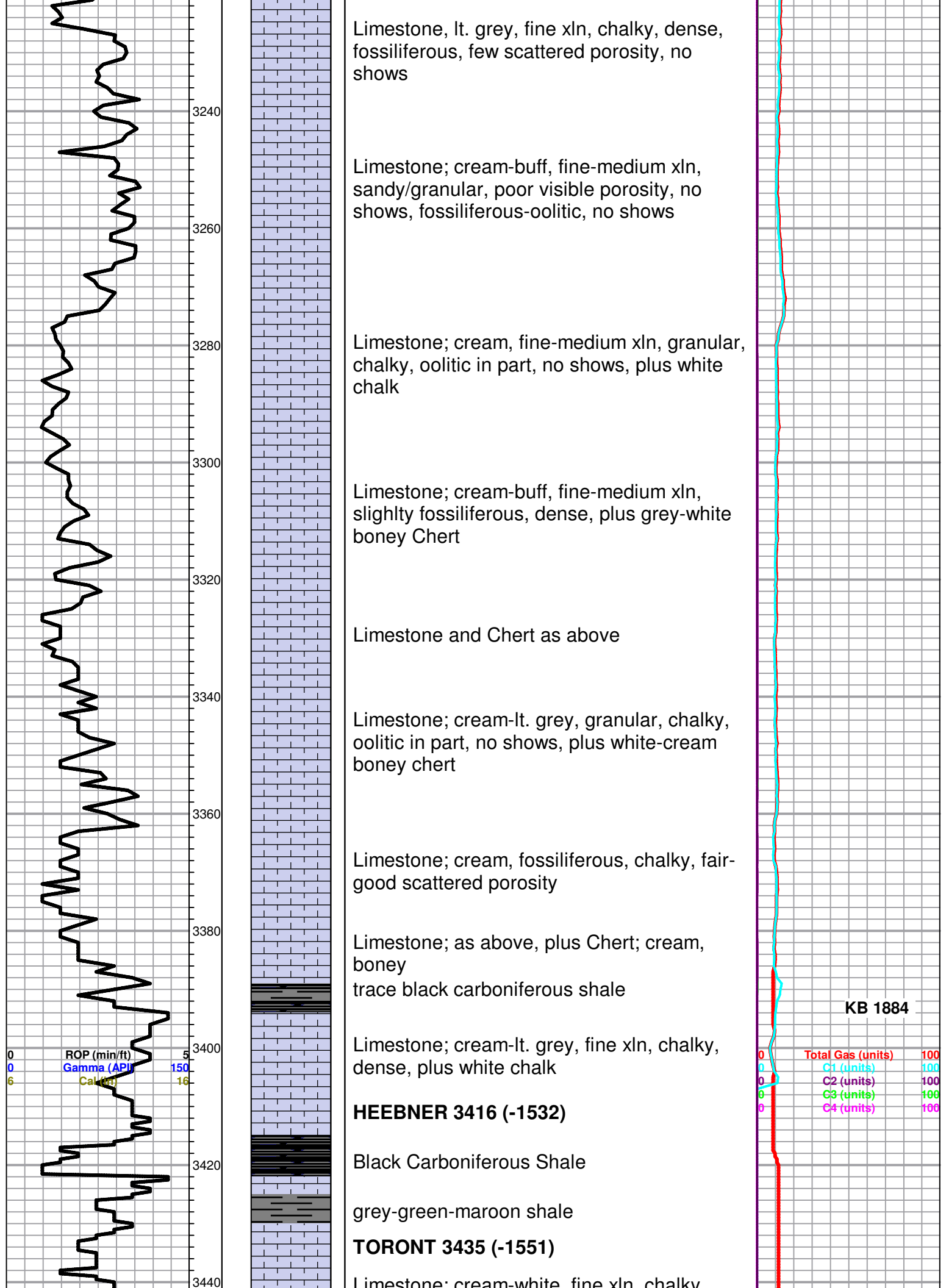
Limestone; cream, fossiliferous, chalky, dense, no shows

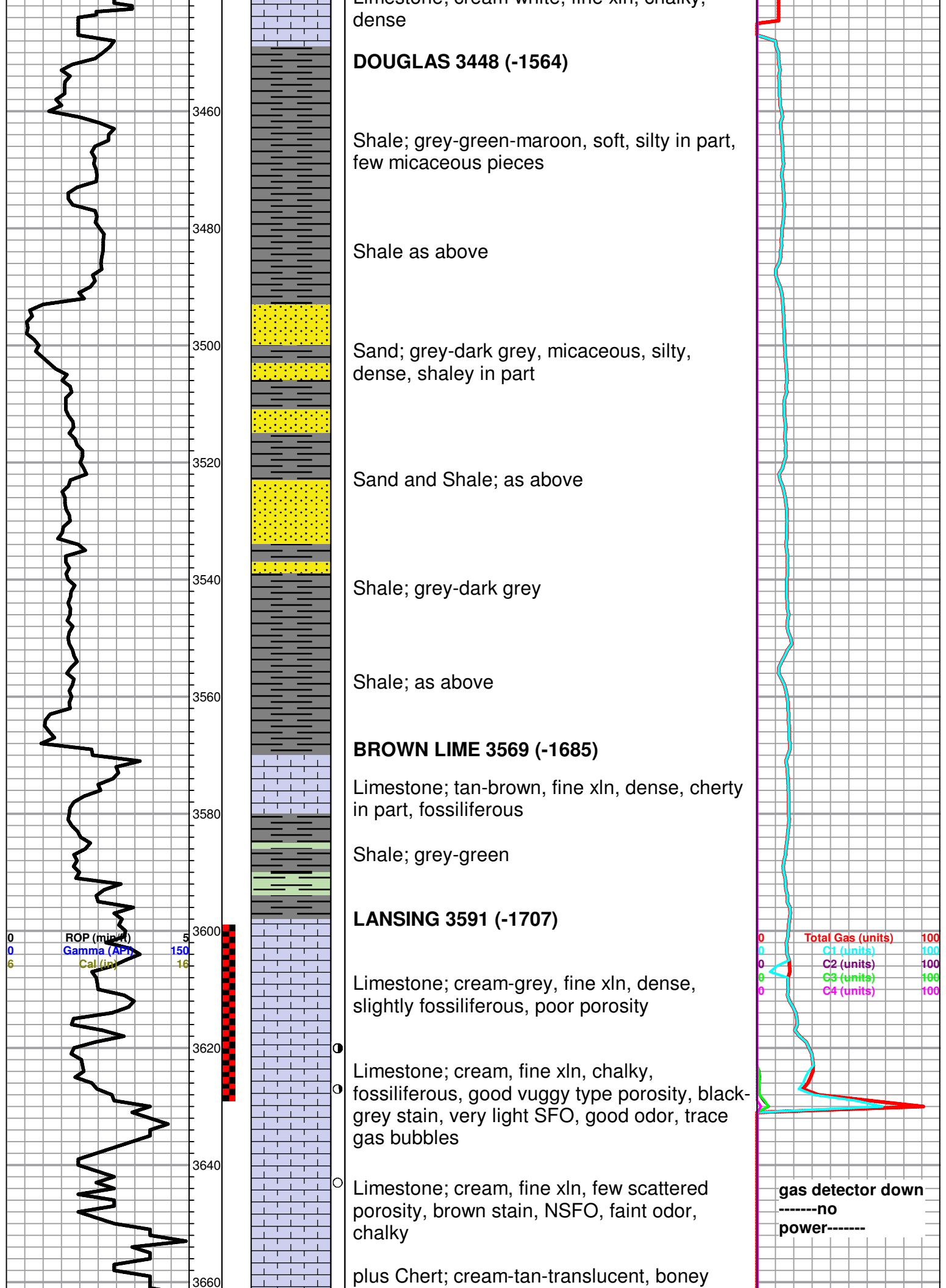
grey-balck shale

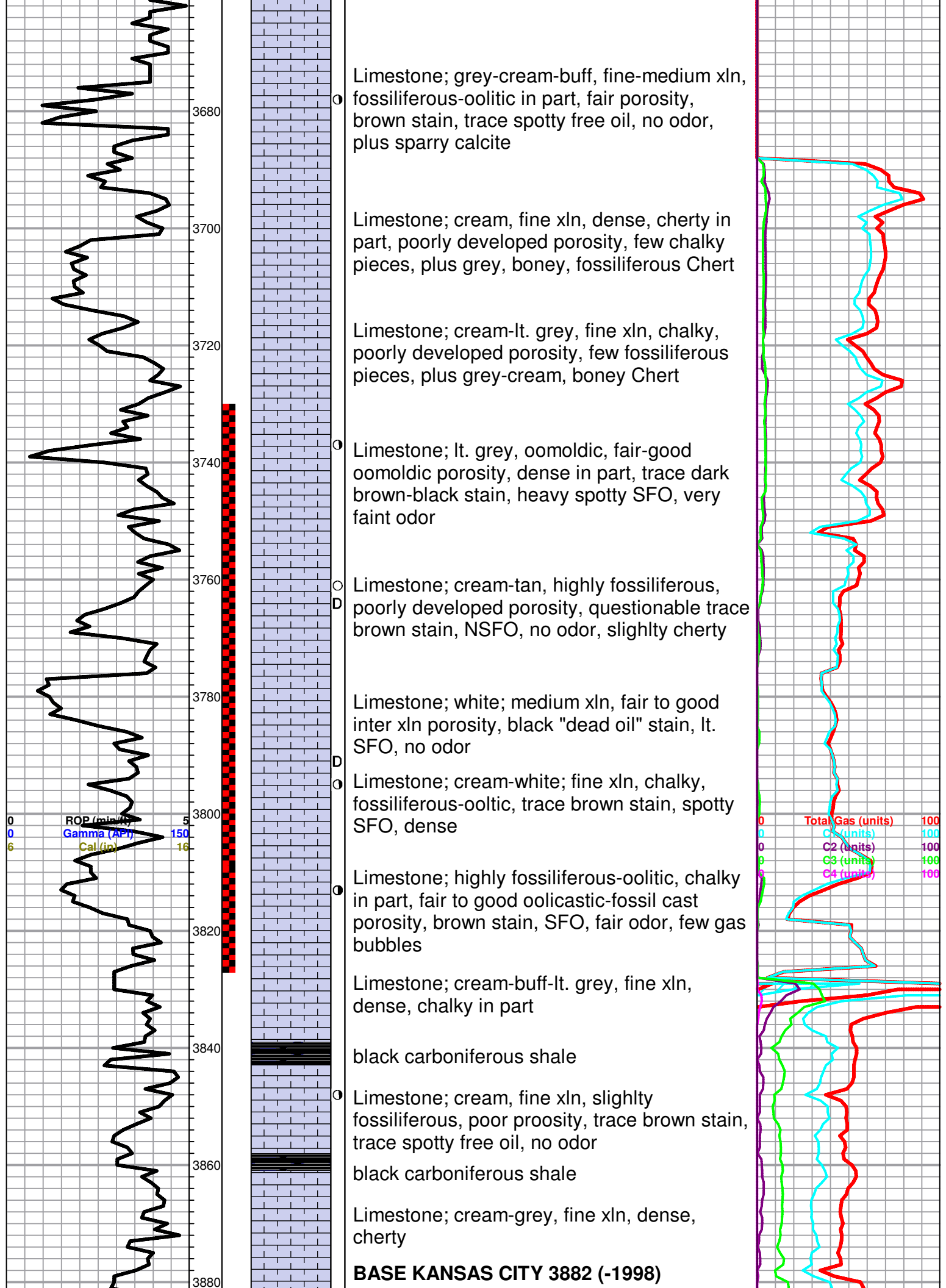
Limestone; white-chalky, dense

grey shale









Limestone; grey-cream-buff, fine-medium xln, fossiliferous-oolitic in part, fair porosity, brown stain, trace spotty free oil, no odor, plus sparry calcite

Limestone; cream, fine xln, dense, cherty in part, poorly developed porosity, few chalky pieces, plus grey, boney, fossiliferous Chert

Limestone; cream-lt. grey, fine xln, chalky, poorly developed porosity, few fossiliferous pieces, plus grey-cream, boney Chert

Limestone; lt. grey, oomoldic, fair-good oomoldic porosity, dense in part, trace dark brown-black stain, heavy spotty SFO, very faint odor

Limestone; cream-tan, highly fossiliferous, poorly developed porosity, questionable trace brown stain, NSFO, no odor, slightly cherty

Limestone; white; medium xln, fair to good inter xln porosity, black "dead oil" stain, lt. SFO, no odor

Limestone; cream-white; fine xln, chalky, fossiliferous-oolitic, trace brown stain, spotty SFO, dense

Limestone; highly fossiliferous-oolitic, chalky in part, fair to good oolitic-fossil cast porosity, brown stain, SFO, fair odor, few gas bubbles

Limestone; cream-buff-lt. grey, fine xln, dense, chalky in part

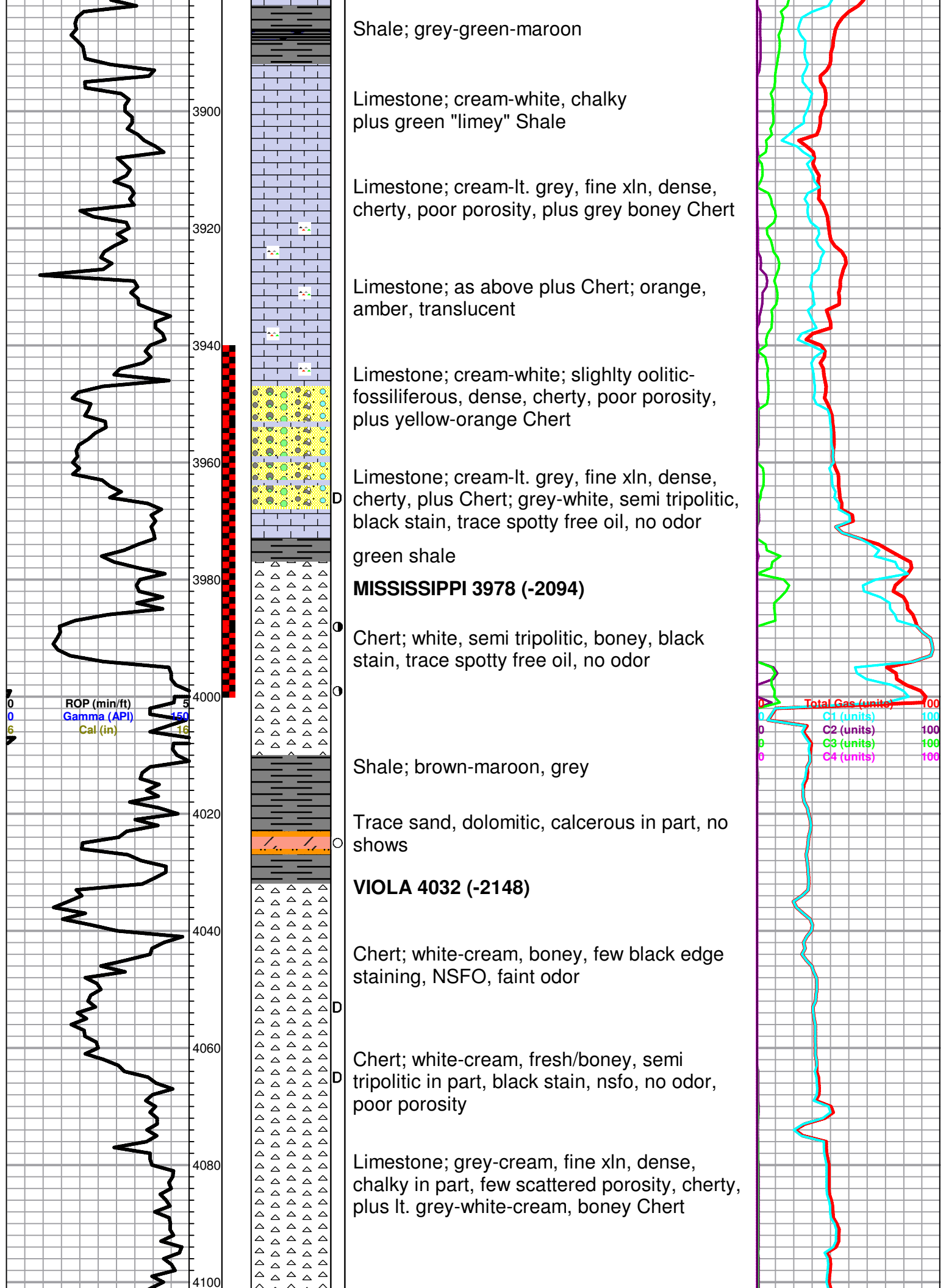
black carboniferous shale

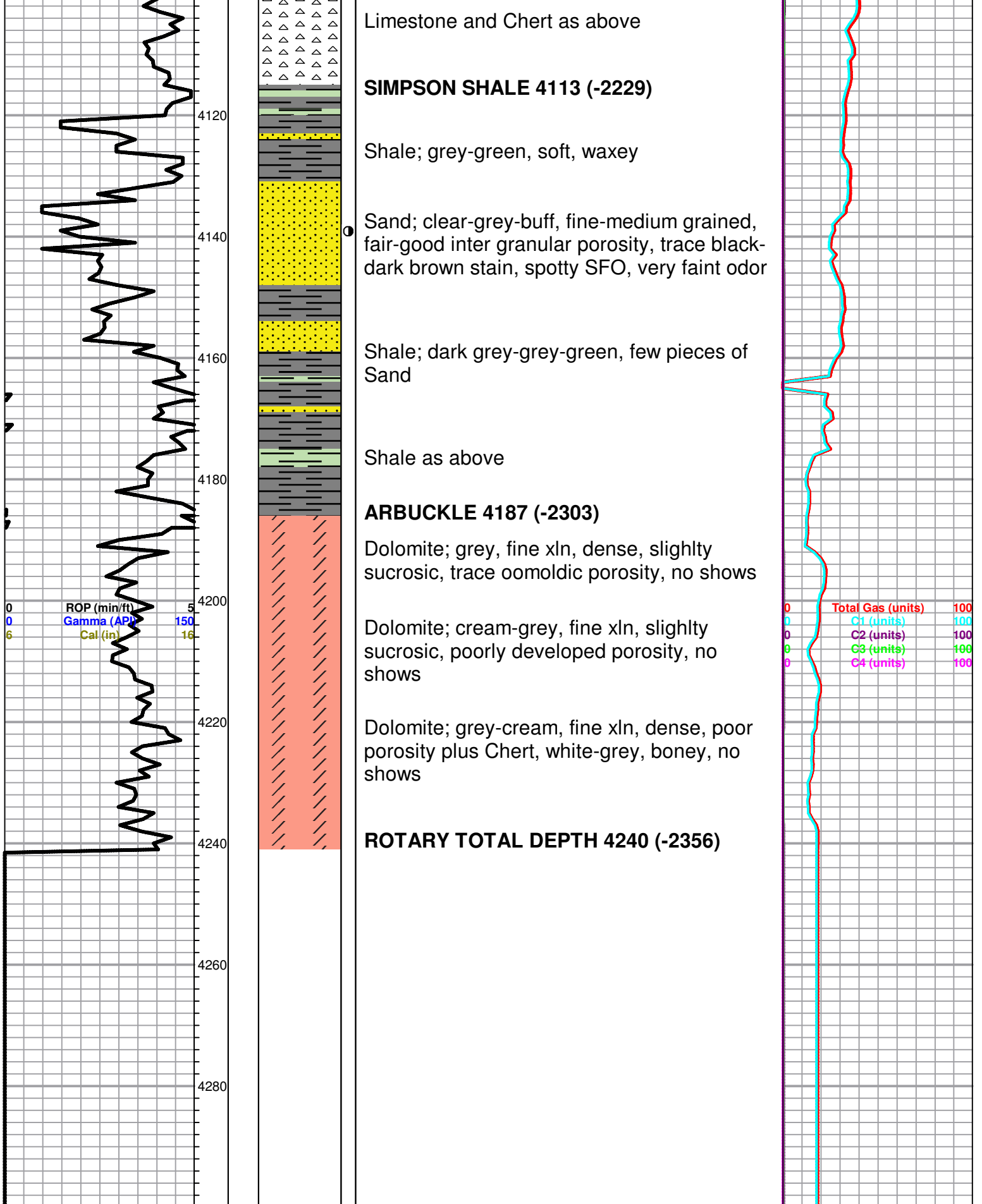
Limestone; cream, fine xln, slightly fossiliferous, poor proosity, trace brown stain, trace spotty free oil, no odor

black carboniferous shale

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

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





GENERAL INFORMATION

Client Information:

Company: H+D EXPLORARION LLC

Contact: ALAN HOFFMAN

Phone: Fax: e-mail:

Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

Well Information:

Name: FRITZENEMEIER #1

Operator: H+D EXPLORATION LLC

Location-Downhole:

Location-Surface: S20/25S/12W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D1330

Test Unit:

Start Date: 2013/06/27 Start Time: 20:00:00

End Date: 2013/06/28 End Time: 02:05:00

Report Date: 2013/06/28 Prepared By: JOHN RIEDL

Remarks: Qualified By: JOSH AUSTIN

RECOVERY: GAS TO SURFACE STABIIZING @ 255 MCF/D, 150' SLIGHTLYOIL CUT GASSY WATERY MUD



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Fritzemeier1dst1

TIME ON: 20:00 06/27/13
TIME OFF: 02:05 06/28/13

Company H+D EXPL. LLC Lease & Well No. FRITZEMEIER #1
Contractor SOUTHWIND RIG 1 Charge to H+D EXPLORATION LLC
Elevation 1884 K.B Formation LKC "A+B" Effective Pay _____ Ft. Ticket No. D1330
Date 6/27/13 Sec. 20 Twp. 25 S Range 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative JOHN RIEDL

Formation Test No. 1 Interval Tested from 3600 ft. to 3628 ft. Total Depth 3628 ft.
Packer Depth 3595 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3600 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3603 ft. Recorder Number 30046 Cap. 6000 P.S.I.
Bottom Recorder Depth (Outside) 3625 ft. Recorder Number 11073 Cap. 4000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 30 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 10.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 9,500 P.P.M. Drill Pipe Length 3545 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 22 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 28 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 10 SEC. GTS 3 MIN.) STABILIZED @ 250 MCF/D NO BB
2nd Open: STRONG (B.O.B 10 SEC. GTS THROUGHOUT) STABILIZED @ 255 MCF/D NO BB

Recovered 150 ft. of SLOGGWM (5%OIL 15%GAS 15% WATER 675%MUD)
Recovered 360 ft. of MW (20%GAS 80%WATER)
Recovered _____ ft. of _____
Recovered _____ ft. of _____

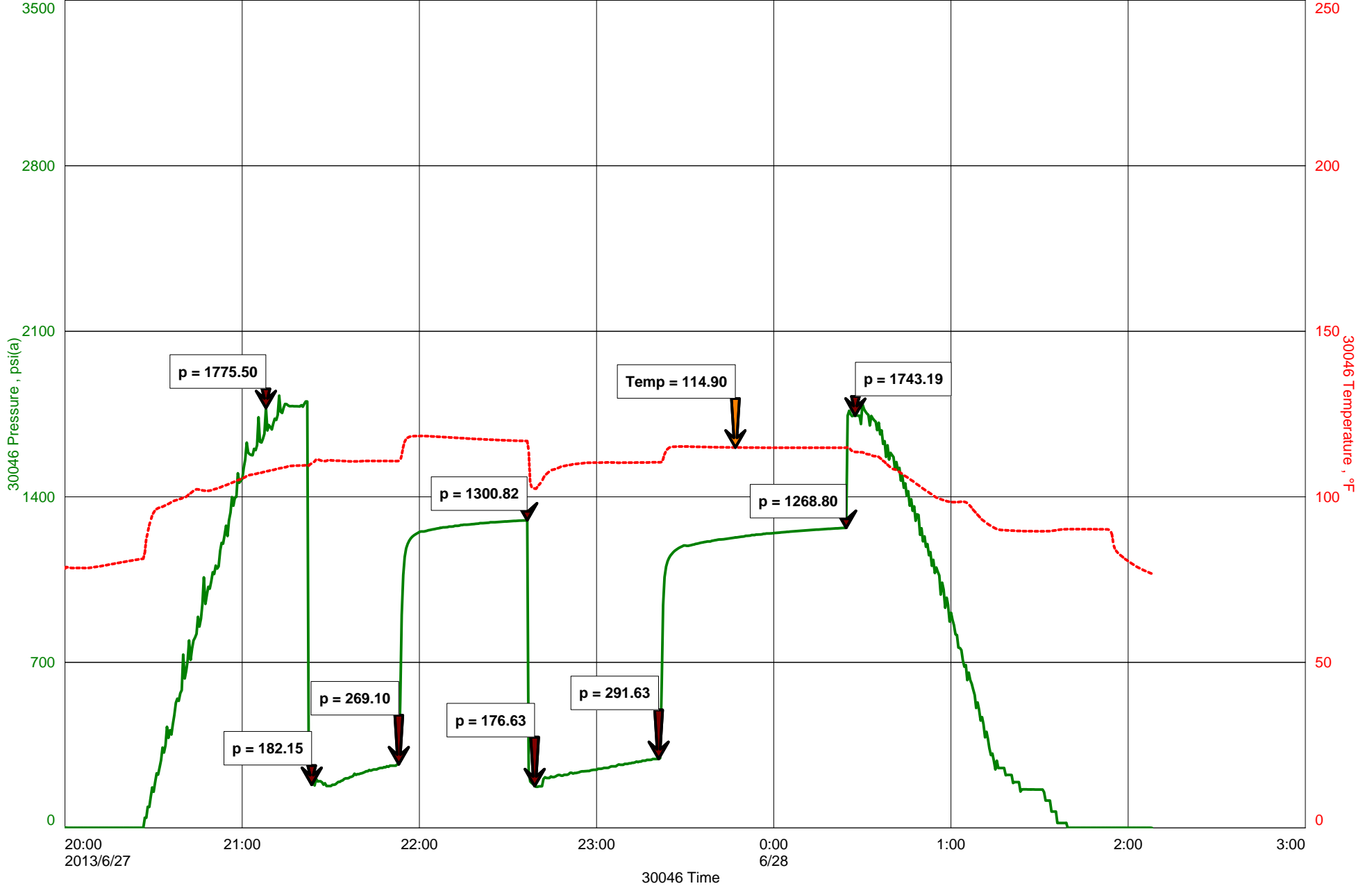
| | |
|--|---------------|
| Recovered _____ ft. of _____ | Price Job |
| Recovered _____ ft. of _____ | Other Charges |
| Remarks: <u>TOTAL FLUID RECOVERY:510'(480' IN DRILL PIPE 30' IN COLLARS</u> | Insurance |
| <u>TOOL SAMPLE GRINDOUT: 5%GAS 95%WATER</u> | Total |

Time Set Packer(s) 9:20 P.M ^{A.M.}/_{P.M.} Time Started Off Bottom 12:20 A.M ^{A.M.}/_{P.M.} Maximum Temperature 115

Initial Hydrostatic Pressure..... (A) 1776 P.S.I.
Initial Flow Period..... Minutes 30 (B) 182 P.S.I. to (C) 269 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1307 P.S.I.
Final Flow Period..... Minutes 45 (E) 177 P.S.I. to (F) 292 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1269 P.S.I.
Final Hydrostatic Pressure..... (H) 1743 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

FRITZENEMEIER #1



GENERAL INFORMATION

Client Information:

Company: H+D EXPLORATION LLC

Contact: ALAN HOFFMAN

Phone: Fax: e-mail:

Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

Well Information:

Name: FRITZEMEIER #1

Operator: H+D EXPLORATION LLC

Location-Downhole:

Location-Surface: S20/25S/12W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D1332

Test Unit:

Start Date: 2013/06/29 Start Time: 19:10:00

End Date: 2013/06/30 End Time: 20:00:00

Report Date: 2013/06/30 Prepared By: JOHN RIEDL

Qualified By: JOSH AUSTIN

Remarks:

RECOVERY: 30' GAS IN PIPE, 30' MUD



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Fritzemeier1dst3

TIME ON: 19:10 06/29/13
TIME OFF: 00:20 06/30/13

Company H+D EXPL. LLC Lease & Well No. FRITZEMEIER #1
Contractor SOUTHWIND RIG 1 Charge to H+D EXPLORATION LLC
Elevation 1884 K.B Formation MISS Effective Pay _____ Ft. Ticket No. D1332
Date 6/29/13 Sec. 20 Twp. 25 S Range 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative JOHN RIEDL

Formation Test No. 3 Interval Tested from 3940 ft. to 4000 ft. Total Depth 4000 ft.
Packer Depth 3935 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3940 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3943 ft. Recorder Number 30046 Cap. 6000 P.S.I.
Bottom Recorder Depth (Outside) 3997 ft. Recorder Number 11073 Cap. 4000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 Drill Collar Length 30 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 10,000 P.P.M. Drill Pipe Length 3888 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 22 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 60 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 30' DRILL PIPE Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: FAIR (4") NO BB
2nd Open: FAIR (4") NO BB

Recovered 30 ft. of GIP
Recovered 30 ft. of MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

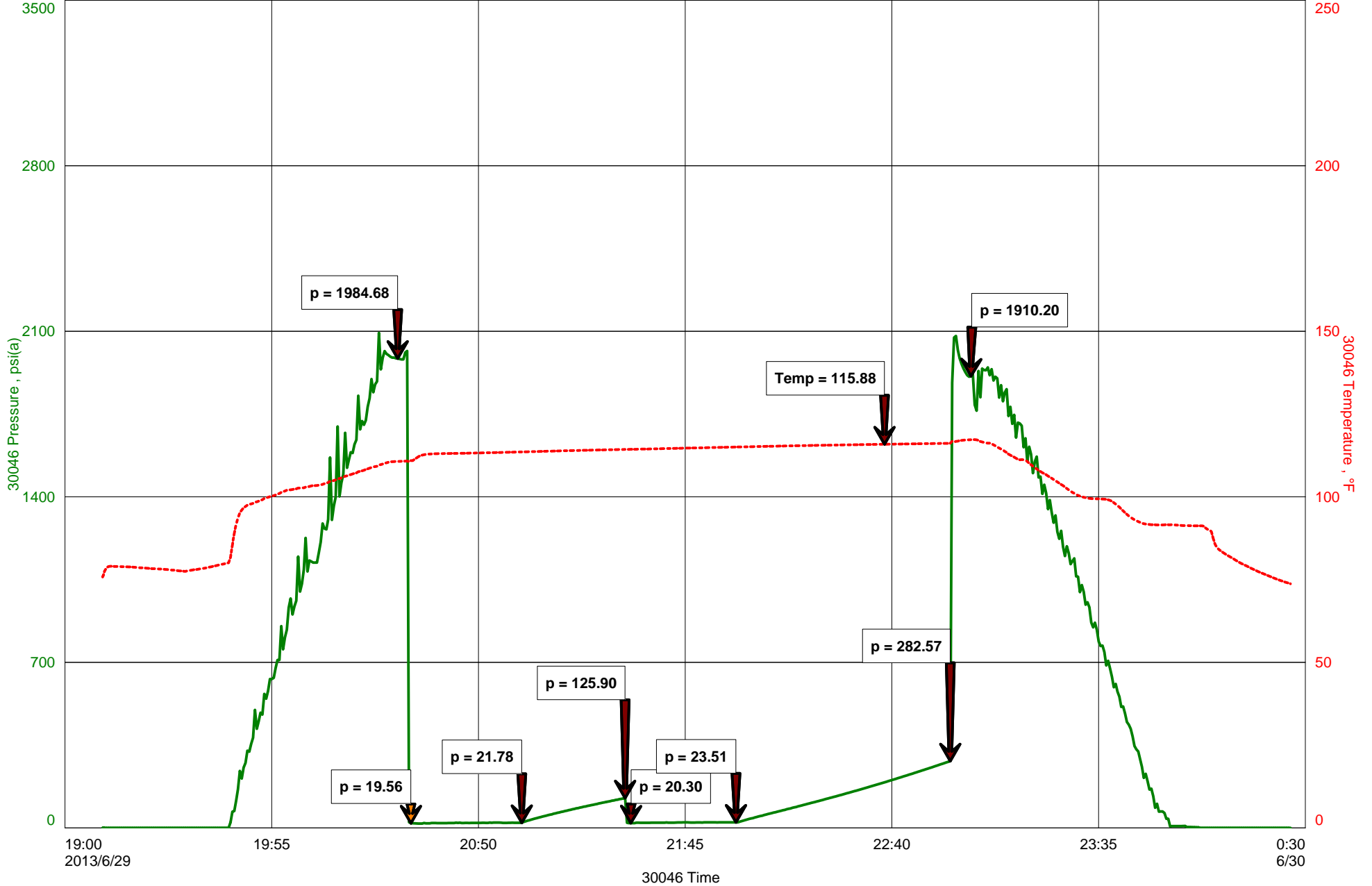
| | |
|---|---------------|
| Remarks: <u>TOTAL FLUID RECOVERY:30' IN COLLARS)</u> <u>TOOL SAMPLE GRINDOUT: 100% MUD</u> | Price Job |
| | Other Charges |
| | Insurance |
| | Total |

Time Set Packer(s) 8:30 P.M A.M. Time Started Off Bottom 10:45 P.M P.M. Maximum Temperature 116

Initial Hydrostatic Pressure..... (A) 1985 P.S.I.
Initial Flow Period..... Minutes 30 (B) 20 P.S.I. to (C) 22 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 126 P.S.I.
Final Flow Period..... Minutes 30 (E) 20 P.S.I. to (F) 24 P.S.I.
Final Closed In Period..... Minutes 45 (G) 283 P.S.I.
Final Hydrostatic Pressure..... (H) 1916 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

FRITZEMEIER #1



GENERAL INFORMATION

Client Information:

Company: H+D EXPLORATION LLC

Contact: ALAN HOFFMAN

Phone: Fax: e-mail:

Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

Well Information:

Name: FRITZIMEIER #1

Operator: H+D EXPLORATION LLC

Location-Downhole:

Location-Surface: S20/25S/12W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D1331

Test Unit:

Start Date: 2013/06/28 Start Time: 20:00:00

End Date: 2013/05/29 End Time: 01:45:00

Report Date: 2013/06/29 Prepared By: JOHN RIEDL

Remarks: Qualified By: JOSH AUSTIN

RECOVERY: 250' GIP, 120' OIL+GAS CUT MUD, 190' GAS CUT MUDDYWATER



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Fritzmeier1dst2

TIME ON: 20:00 06/28/13
TIME OFF: 01:45 06/29/13

Company H+D EXPL. LLC Lease & Well No. FRITZIMEIER #1
Contractor SOUTHWIND RIG 1 Charge to H+D EXPLORATION LLC
Elevation 1884 K.B Formation LKC "H+J" Effective Pay _____ Ft. Ticket No. D1331
Date 6/28/13 Sec. 20 Twp. 25 S Range 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative JOHN RIEDL

Formation Test No. 2 Interval Tested from 3730 ft. to 3825 ft. Total Depth 3825 ft.

Packer Depth 3725 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3730 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3733 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3822 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 30 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 10 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 10,000 P.P.M. Drill Pipe Length 3698 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 22 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 95 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 63' DRILL PIPE Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: STRONG (B.O.B 5 MIN.) WEAK BB

2nd Open: STRONG (B.O.B 9 MIN.) GOOD BB

Recovered 250 ft. of GAS IN PIPE

Recovered 120 ft. of O+GCM (10%OIL 20%GAS 70%MUD)

Recovered 190 ft. of GMW (10%GAS 15%MUD 75%WATER)

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID RECOVERY:310' (280' IN DRILL PIPE 30' IN COLLARS)

TOOL SAMPLE GRINDOUT: 5%GAS 95%WATER

Time Set Packer(s) 9:05 P.M A.M. P.M. Time Started Off Bottom 12:05 A.M A.M. P.M. Maximum Temperature 118

Initial Hydrostatic Pressure..... (A) 1862 P.S.I.

Initial Flow Period..... Minutes 30 (B) 31 P.S.I. to (C) 96 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1255 P.S.I.

Final Flow Period..... Minutes 45 (E) 101 P.S.I. to (F) 184 P.S.I.

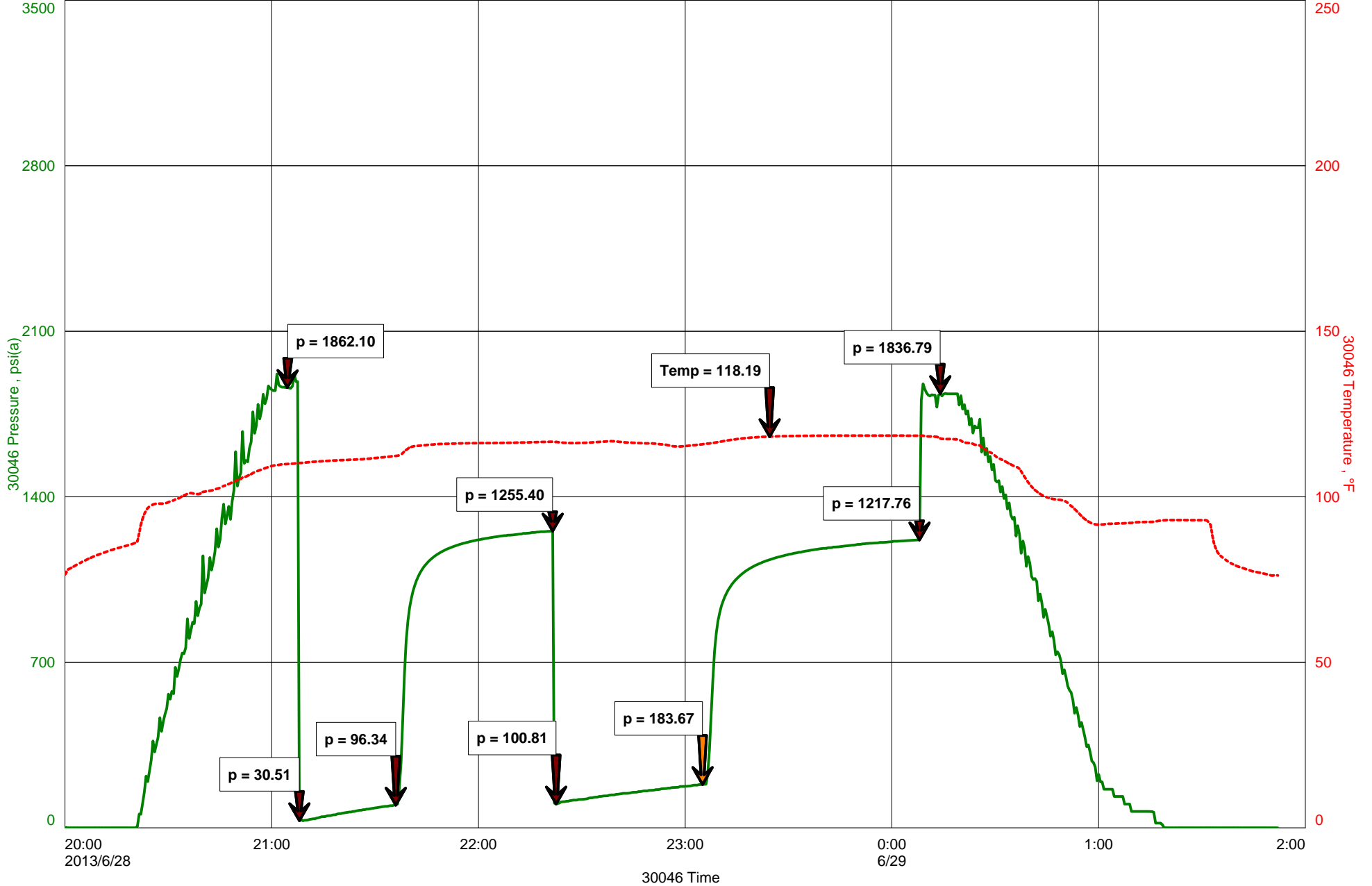
Final Closed In Period..... Minutes 60 (G) 1218 P.S.I.

Final Hydrostatic Pressure..... (H) 1837 P.S.I.

| |
|---------------|
| Price Job |
| Other Charges |
| Insurance |
| Total |

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

FRITZIMEIER #1



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6707

| | | | | | | | | | | | | | | | |
|------------------------|--------|------|----|------|----|-------|----|--|----------|---------------------------|----|-------------|--|--------|---------|
| Date | 7-1-13 | Sec. | 20 | Twp. | 25 | Range | 12 | County | Steffens | State | KS | On Location | | Finish | 7:30 AM |
| Lease | | | | | | | | Well No. | | Location | | | | | |
| Fritz 2 - misc | | | | | | | | 4 | | Steffens 69 2 1/4 W Sinto | | | | | |
| Contractor | | | | | | | | To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. | | | | | | | |
| Type Job | | | | | | | | Charge To | | | | | | | |
| Hole Size | | | | | | | | T.D. | | | | | | | |
| Csg. | | | | | | | | Depth | | | | | | | |
| Tbg. Size | | | | | | | | City | | | | | | | |
| Tool | | | | | | | | State | | | | | | | |
| Cement Left in Csg. | | | | | | | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | | | |
| Meas Line | | | | | | | | Cement Amount Ordered | | | | | | | |
| EQUIPMENT | | | | | | | | Common | | | | | | | |
| Pumptrk | | | | | | | | Poz. Mix | | | | | | | |
| Bulktrk | | | | | | | | Gel. | | | | | | | |
| Bulktrk | | | | | | | | Calcium | | | | | | | |
| JOB SERVICES & REMARKS | | | | | | | | Hulls | | | | | | | |
| Remarks: | | | | | | | | Salt | | | | | | | |
| Rat Hole | | | | | | | | Flowseal | | | | | | | |
| Mouse Hole | | | | | | | | Kol-Seal | | | | | | | |
| Centralizers | | | | | | | | Mud CLR 48 | | | | | | | |
| Baskets | | | | | | | | CFL-117 or CD110 CAF 38 | | | | | | | |
| D/V or Port Collar | | | | | | | | Sand | | | | | | | |
| Handling | | | | | | | | Mileage | | | | | | | |
| FLOAT EQUIPMENT | | | | | | | | Guide Shoe | | | | | | | |
| Centralizer | | | | | | | | AFU Inserts | | | | | | | |
| Baskets | | | | | | | | Float Shoe | | | | | | | |
| Latch Down | | | | | | | | Pumptrk Charge | | | | | | | |
| Mileage | | | | | | | | Tax | | | | | | | |
| Discount | | | | | | | | Total Charge | | | | | | | |
| Signature | | | | | | | | | | | | | | | |

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7922
6-23-13

| | | | | | | | | | | | | | | | |
|------|---------|------|----|------|----|-------|----|--------|----------|-------|----|-------------|--|--------|----------|
| Date | 6-22-13 | Sec. | 20 | Twp. | 25 | Range | 12 | County | Stafford | State | Ks | On Location | | Finish | 12:45 AM |
|------|---------|------|----|------|----|-------|----|--------|----------|-------|----|-------------|--|--------|----------|

Lease Fritzmeier Well No. 1 Location 281 + 50 Jct, 3E, 4S, 2E, 25, 1/2 W

Contractor Southwind #1 Owner S/Into

Type Job Surface Charge To H-D Exploration
To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 717' Street _____ City _____ State _____

Csg. 8 5/8" Depth 715' Street _____ City _____ State _____

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 41.91' Shoe Joint 41.91' Cement Amount Ordered 450 sy Common 3% cc

Meas Line _____ Displace 42 3/4 BLS 27.6 gal 1/2 # Flow Seal

| EQUIPMENT | | | | Common |
|-----------|-------------|-----|-------------------------|----------|
| Pumptrk | <u>16</u> | No. | Cementer | Poz. Mix |
| | | | Helper <u>Lannie W.</u> | |
| Bulktrk | <u>13</u> | No. | Driver | Gel. |
| | | | Driver <u>David L.</u> | |
| Bulktrk | <u>p.u.</u> | No. | Driver | Calcium |
| | | | Driver <u>Rick</u> | |

JOB SERVICES & REMARKS

Remarks: Cement did Circulate Hulls _____

Rat Hole _____ Salt _____

Mouse Hole In Cellar. Flowseal _____

Centralizers _____ Kol-Seal _____

Baskets _____ Mud CLR 48 _____

D/V or Port Collar _____ CFL-117 or CD110 CAF 38 _____

_____ Sand _____

_____ Handling _____

_____ Mileage _____

FLOAT EQUIPMENT

Guide Shoe _____

Centralizer _____

Baskets 1 _____

AFU Inserts _____

Float Shoe _____

Latch Down _____

1 - Baffle plate _____

1 - Rubber plug _____

Pumptrk Charge _____

Mileage _____

Signature [Signature] Tax _____

Discount _____
Total Charge _____