



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1241057  
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
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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: \_\_\_\_\_



1241057

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 <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  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
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Smith, Richard E. dba Smith Oil Operations
Well Name	FAIR SLEEPER TRUST 4
Doc ID	1241057

Tops

Name	Top	Datum
ANHYDRITE	474	1279
TOPEKA	2649	-896
HEEBNER	2936	-1183
TORONTO	2952	-1199
DOUGLAS	2964	-1211
BROWN LIME	3063	-1310
LANSING	3081	-1328
BASE KC	3317	-1564
SIMPSON	3347	-1594
ARBUCKLE	3375	-1622
T.D.	3452	-1699

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 866

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

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

Date <i>10-28-14</i>	Sec. <i>15</i>	Twp. <i>21</i>	Range <i>11</i>	County <i>Stafford</i>	State <i>KS</i>	On Location	Finish <i>1130</i>
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Location *Ellinwood S to county line 2 S to 190 4 1/2 SE S into*

Lease <i>Fair Sleeper trust</i>	Well No. <i>4</i>	Owner 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.
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Contractor <i>Fossil Drilling</i>	Type Job <i>Surface</i>	Charge To <i>Smith oil operation</i>
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Hole Size <i>12 1/4</i>	T.D. <i>253</i>	Street <i>PO BOX 550</i>
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Csg. <i>8 5/8</i>	Depth <i>251</i>	City <i>Hutchinson</i> State <i>KS 67504</i>
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Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
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Cement Left in Csg. <i>15'</i>	Shoe Joint <i>15'</i>	Cement Amount Ordered <i>275 <del>lb</del> 70/30 39cc</i>
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Meas Line	Displace <i>15</i>	<i>2% gel 1/16 flow seal</i>
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EQUIPMENT			Common
Pumptrk <i>16</i> No.	Cement Helper <i>Billy</i>		<i>192</i>
Bulktrk <i>3</i> No.	Driver <i>Lornie M</i>		Poz. Mix <i>83</i>
Bulktrk <i>pu</i> No.	Driver <i>Rick</i>		Gel. <i>5</i>
			Calcium <i>17</i>

JOB SERVICES & REMARKS		Hulls
------------------------	--	-------

Remarks: <i>Cement Die circulate</i>	Salt
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Rat Hole <i>in Celler</i>	Flowseal <i>137#</i>
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Mouse Hole	Kol-Seal
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Centralizers	Mud CLR 48
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Baskets	CFL-117 or CD110 CAF 38
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D/V or Port Collar	Sand
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	Handling <i>299</i>
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	Mileage
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FLOAT EQUIPMENT	
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	Guide Shoe
--	------------

	Centralizer
--	-------------

	Baskets
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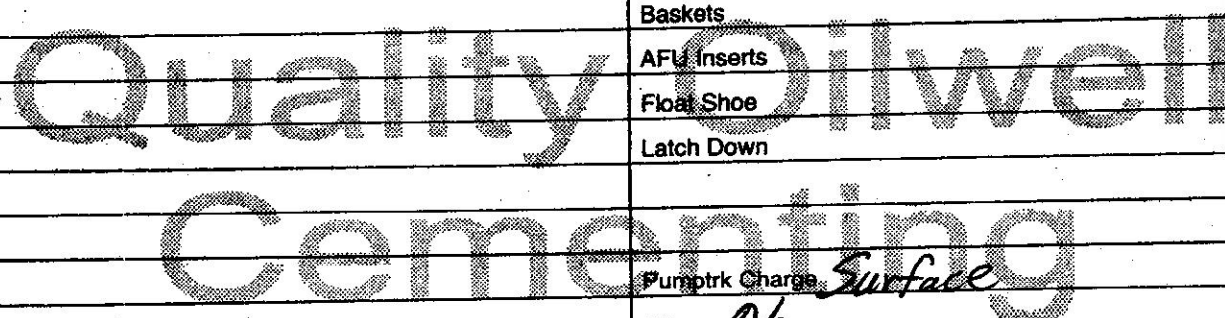
	AFL Inserts
--	-------------

	Float Shoe
--	------------

	Latch Down
--	------------

	Pumptrk Charge <i>Surface</i>	Tax
	Mileage <i>26</i>	Discount
		Total Charge

X Signature *[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. 867

Date	10-28-14	Sec.	15	Twp.	21	Range	11	County	Stafford	State	Ks	On Location		Finish	9:30 PM
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Lease: Fair Sleeper trust  
Well No. 4  
Location: Ellinwood, Ks - S to C.L. 25 to  
Owner: 190th Rd, 4 1/2 E, 34th

Contractor: Fossil Rig 2  
Type Job: 1" Surface casing  
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. 253'  
Charge To: Smith oil operations

Csg. 8 3/8" Depth 251'  
Street

Tbg. Size Depth City State

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

Cement Left in Csg. 15' Shoe Joint 15'  
Cement Amount Ordered 550 ex 70/30 3% CC  
Meas Line Displace A20 2% Gel 1/2 # Flo-seal used 355

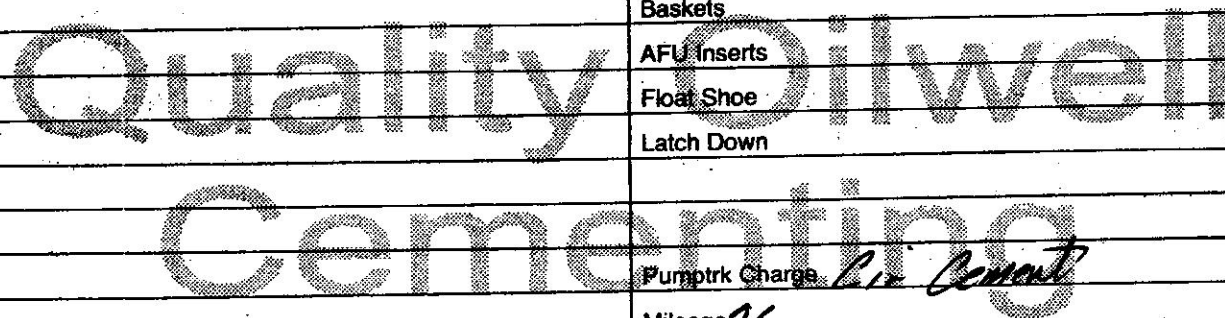
EQUIPMENT		Common
Pumptrk 17 No.	Cementor Helper Rick	248
Bulktrk 1+13 No.	Driver Tyle	Poz. Mix 107
Bulktrk pm. No.	Driver Travis	Gel. 7
		Calcium 13

**JOB SERVICES & REMARKS**

Remarks:  
Rat Hole: Cement fell back to  
Mouse Hole: 90' Run 85' of  
Centralizers: 1" pipe down backside  
Baskets: + mix 355 ex 70/30  
DNV or Port Collar: 3% CC 2% Gel 1/2 # Flo-seal  
Cement did Circulate

**FLOAT EQUIPMENT**

Guide Shoe  
Centralizer  
Baskets  
AFU Inserts  
Float Shoe  
Latch Down



Pumptrk Charge: P. Cement  
Mileage: 26

Signature: [Handwritten Signature]  
Tax  
Discount  
Total Charge

# QUALITY OILWELL CEMENTING, INC.

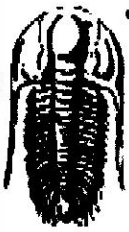
Federal Tax I.D.# 20-2886107

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

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

No. 873

Date	11-3-14	Sec.	15	Twp.	21	Range	11	County	Stafford	State	Ks	On Location		Finish	11:00 AM
Fair sleeper trust								Location Ellinwood, Ks - 3 to C.L. 25 to 190 Rd							
Lease				Well No.	4			Owner 4 1/2 E, 5 1/4 N 10							
Contractor	Fossil #2			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	Longstring			Charge To Smith oil operations											
Hole Size	7 7/8"			T.D.	3455'			Street							
Csg.	14# New 5 1/2"			Depth	3443.59'			City							
Tbg. Size				Depth				State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	41' <del>40'</del>			Shoe Joint	41'			Cement Amount Ordered 220 60/40 10% Salt 2% Gel							
Meas Line	Displace 83 BLS			500 gal mud Clear 48											
EQUIPMENT												Common 132			
Pumptrk	18	No.	Cement Helper	Billy			Poz. Mix 88								
Bulktrk	15	No.	Driver	Tusori			Gel. 4								
Bulktrk	p.u.	No.	Driver	Rick			Calcium								
JOB SERVICES & REMARKS												Hulls			
Remarks:												Salt 19			
Rat Hole												Flowseal			
Mouse Hole												Kol-Seal			
Centralizers	1, 2, 4, 6, 8, 10											Mud CLR 48 500 gal			
Baskets												CFL-117 or CD110 CAF 38			
D/V or Port Collar	pipe on bottom break Circ.											Sand			
Pump	500 gal mud Clear 48, plug											Handling 243			
Rat hole	w/ 30X, Hook to 1500											Mileage			
Casing	+ mix 1905X Cement shut down											FLOAT EQUIPMENT			
wash pump	+ lines Released plug											Guide Shoe			
+ Displaced	w/ 83 BLS H2O,											Centralizer 6			
Released + held												Baskets 2			
Left pressure	1000 #											AFU Inserts			
Land plug	to 1500 #											Float Shoe			
												Latch Down			
												50' Rotating sccatcher's Rotating head Assy			
												Pumptrk Charge pool string			
												Mileage 26			
Signature <i>Chris Clark</i>												Tax			
												Discount			
												Total Charge			



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67506  
ATTN: Josh Austin

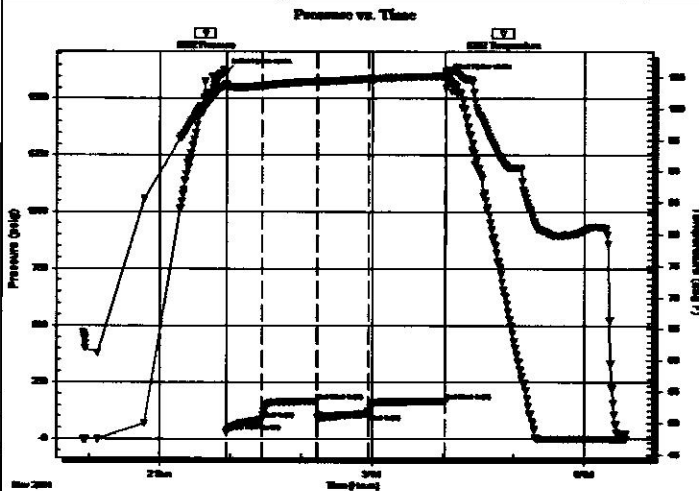
**Fair Sleeper Trust #4**  
**15-21-11 Stafford, KS**  
Job Ticket: 57870      **DST#: 1**  
Test Start: 2014.11.01 @ 22:54:53

## GENERAL INFORMATION:

Formation: **Simpson Sd.**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 00:56:23  
Time Test Ended: 06:34:53  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gary Pevoteaux  
Unit No: 56  
Interval: **3331.00 ft (KB) To 3372.00 ft (KB) (TVD)**  
Reference Elevations: 1753.00 ft (KB)  
Total Depth: 3372.00 ft (KB) (TVD)                      1745.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair                      KB to GR/CF: 8.00 ft

**Serial #: 8352      Outside**  
Press@RunDepth: 111.68 psig @ 3332.00 ft (KB)                      Capacity: 8000.00 psig  
Start Date: 2014.11.01      End Date: 2014.11.02      Last Calib.: 2014.11.02  
Start Time: 22:54:58      End Time: 06:34:52      Time On Btm: 2014.11.02 @ 00:55:23  
Time Off Btm: 2014.11.02 @ 04:02:53

**TEST COMMENT:** IF: Strong blow . B.O.B. in 95 secs.  
IS: Weak blow . (surface)  
FF: Strong blow . B.O.B. in 1 min.  
FS: Weak blow . 1 - 3 1/2".



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1617.39	103.80	Initial Hydro-static
1	28.93	103.41	Open To Flow (1)
31	83.77	103.59	Shut-In(1)
78	164.30	104.29	End Shut-In(1)
78	90.57	104.26	Open To Flow (2)
122	111.68	104.70	Shut-In(2)
187	164.70	105.25	End Shut-In(2)
188	1592.65	105.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
290.00	GMCO 11%g 34%m 55%o	2.66
0.00	2240 ft.of GIP	0.00

## Gas Rates

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



# Joshua R. Austin

**Petroleum Geologist**  
report for  
**Smith Oil Operations**



COMPANY: Smith Oil Operations

LEASE: Fair Sleeper Trust #4

FIELD: Snider South

LOCATION: Sw-Sw-Ne-Nw (1175' FNL & 1560' FWL)

SEC: 15 TWSP: 21s RGE: 11w

COUNTY: Stafford STATE: Kansas

KB: 1753 GL: 1745

API # 15-185-23913-00-00

CONTRACTOR: Fossil Drilling, Inc (rig #2)

Spud: 10/28/2014 Comp: 11/02/2014

RTD: 3455' LTD: 3452'

Mud Up: 2600' Type Mud: Chemical was displaced

Samples Saved From: 2500'to RTD

Drilling Time Kept From: 2500' to RTD

Samples Examined From: 2500' to RTD

Geological Supervision From: 2800' to RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @ 246'

Production Casing: 5 1/2" @ 3452'

Electronic Surveys: Gemini Wireline CDL/CNL, DIL

#### NOTES

On the basis of the positive structural position, drill stem test and after reviewing the electric logs it was recommended by all parties involved in the Fair Sleeper Trust #4 to run 5 1/2" production casing to further test the Arbuckle and Simpson. The Lansing J, I, H, should be tested before plugging this well.

**Smith Oil Operations**  
**well comparison sheet**



DRILLING WELL

Fair-Sleeper Trust NW #4

1753 KB

Formation	Sample	Sub-Sea	Log	Sub-Sea
Anhydrite	472	1281	474	1279
Topeka	2655	-902	2649	-896
Heebner	2939	-1186	2936	-1183
Toronto	2958	-1205	2952	-1199
Douglas	2970	-1217	2964	-1211
Brown Lime	3068	-1315	3063	-1310
Lansing	3086	-1333	3081	-1328
Base KC	3320	-1567	3317	-1564
Simpson Sand	3353	-1600	3347	-1594
Arbuckle	3380	-1627	3375	-1622
Total Depth	3455	-1702	3452	-1699

COMPARISON WELL

Fair-Sleeper Trust NW #1

1763 KB

Structural Relationship		Log	Sub-Sea
Sample	Log	492	1271
10	8	2669	-906
4	10	2952	-1189
3	6	2971	-1208
3	9	2982	-1219
2	8	3082	-1319
4	9	3100	-1337
4	9	3332	-1569
2	5	3360	-1597
-3	3	3390	-1627
0	5	3475	-1712

COMPARISON WELL

Sleeper #1-15

1755 KB

Structural Relationship		Log	Sub-Sea
Sample	Log	469	1286
-5	-7	2644	-889
-13	-7	2928	-1173
-13	-10		
-14	-8	2958	-1203
-8		3057	-1302
-13	-8	3074	-1319
-14	-9	3308	-1553
-14	-11		
-26	-21	3356	-1601
-21		3520	-1765



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Smith Oil Operations

15-21s-11w Stfford Ks

410 N. Adsms, P.O. Box 550  
Hutchinson Ks. 67506

Fair Sleeper Trust#4

ATTN: Josh Austin

Job Ticket: 57870 DST#: 1

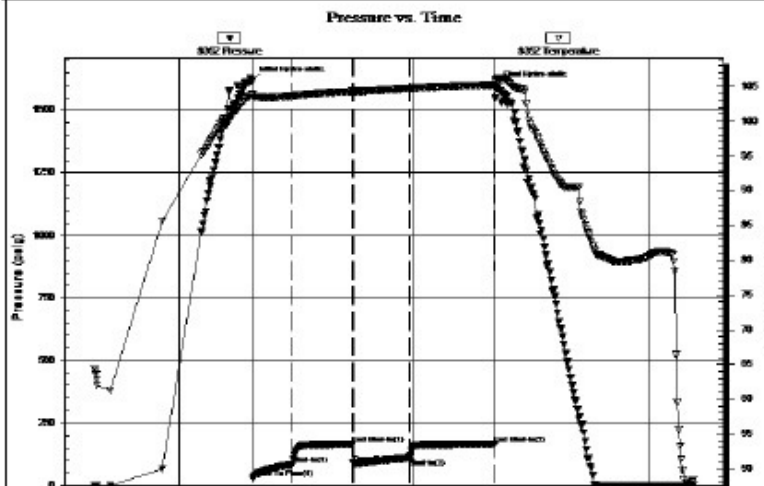
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 Start Time: 22:54:58 End Time: 06:34:52  
 Capacity: 8000.00 psig  
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 IS: Weak blow . (surface)  
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78	164.30	104.29	End Shut-In(1)
78	90.57	104.26	Open To Flow (2)
122	111.68	104.70	Shut-In(2)
187	164.70	105.25	End Shut-In(2)
188	1592.65	105.99	Final Hydro-static








### Recovery

Length (ft)	Description	Volume (bbl)
290.00	GMCO 11%g 34%m 55%o	2.66
0.00	2240 ft.of GIP	0.00

### Gas Rates

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

### ROCK TYPES

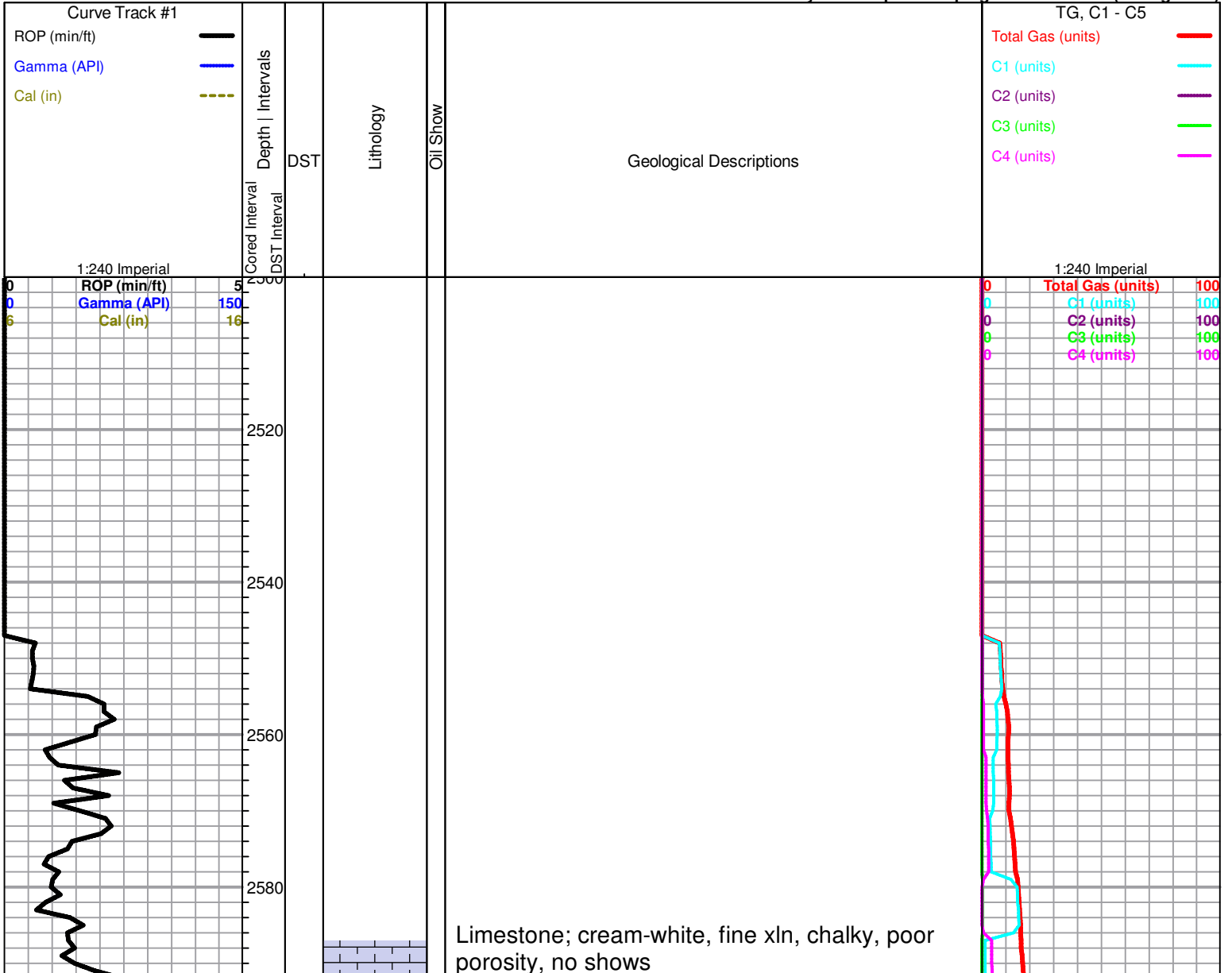
 Dolsec	 shale, grn	 Carbon Sh	 Slst
 Lmst fw7>	 shale, gry	 Ss	

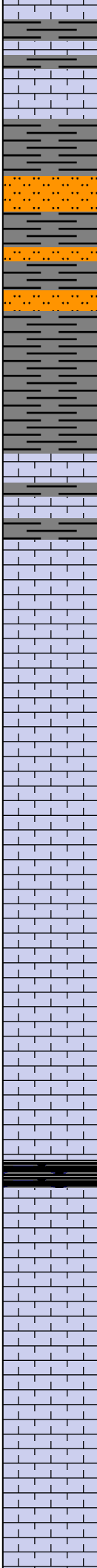
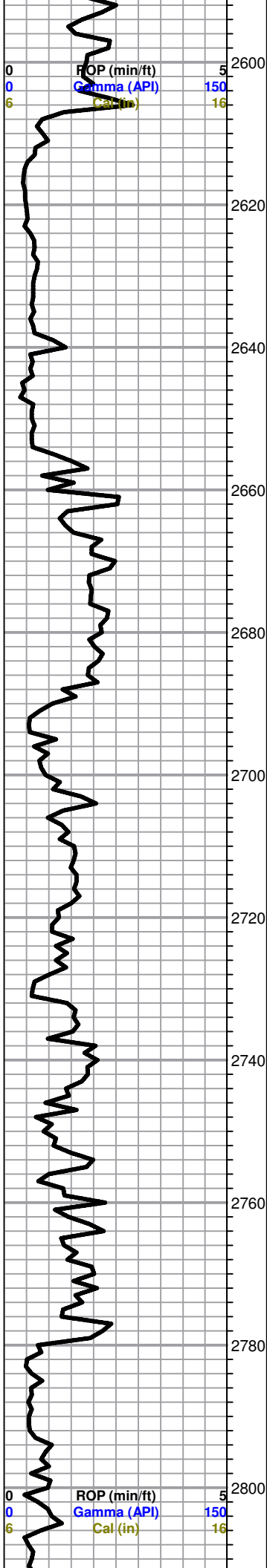
### OTHER SYMBOLS

#### DST

-  DST Int
-  DST alt
-  Core
-  tail pipe

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





**SEVERY SAND 2606 (-853)**

Sand; greyish green, silty, micaceous in part, no shows

as above plus grey-greyish green, silty shale

few greyish green siltstone, no shows, plus grey-green shale, soft, silty

**TOPEKA 2655 (-902)**

Limestone; cream, fossiliferous, chalky in part, dense, poorly developed porosity, no shows  
grey shale

Limestone; cream-buff-white, fine xln, fossiliferous in part, no shows

Limestone; cream-buff, fossiliferous, granular, cherty in part, no shows, trace white Chert

Limestone; as above

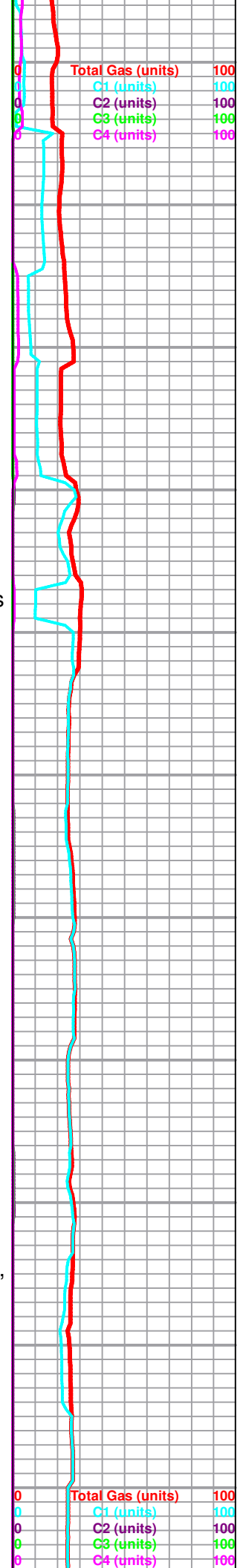
Limestone; cream-grey, fine-medium xln, fossiliferous, granular, no shows, fair inter xln porosity, no shows

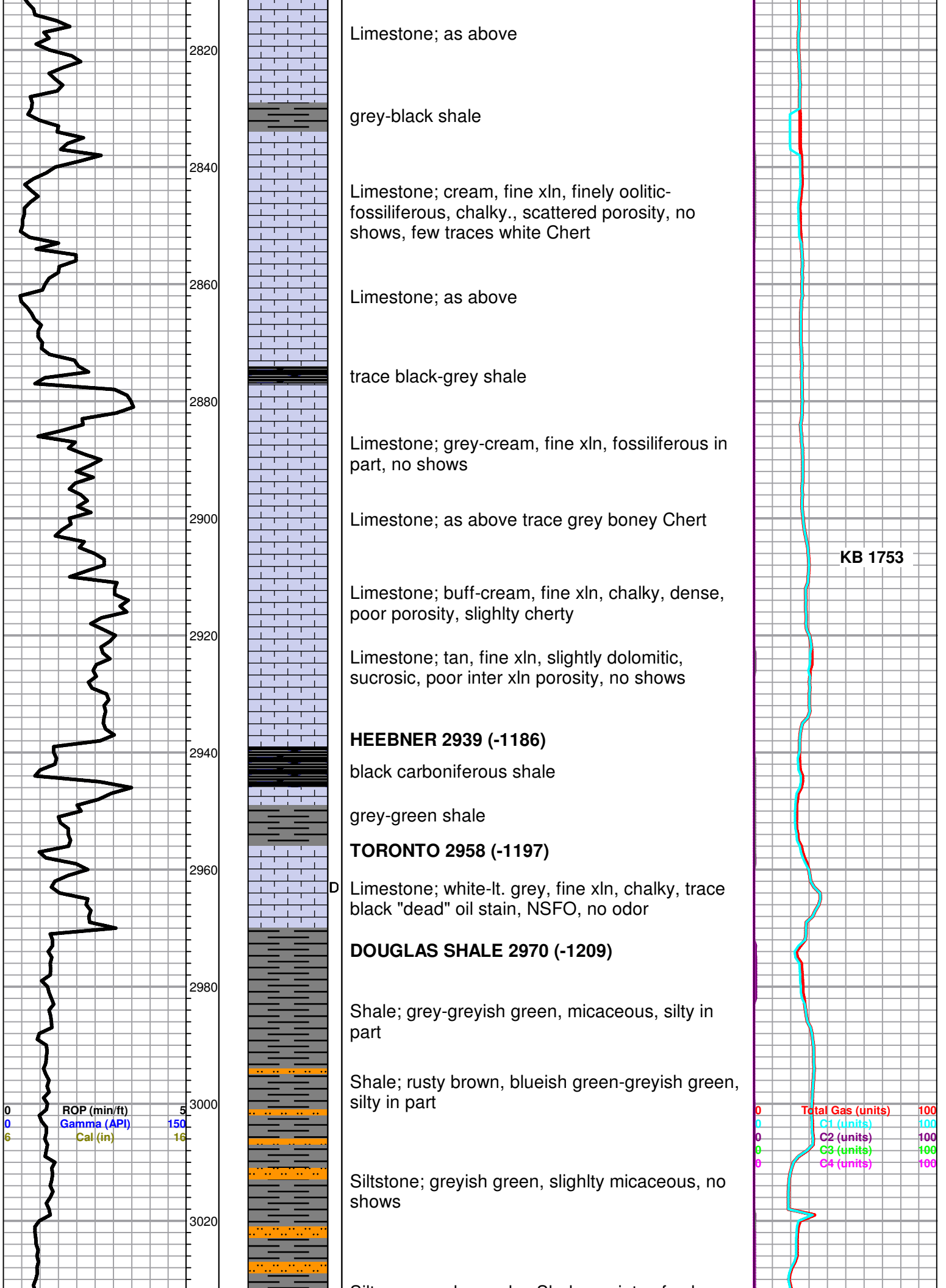
Limestone; tan-cream, granular, few fossils-fine oolites, chalky in part, no shows

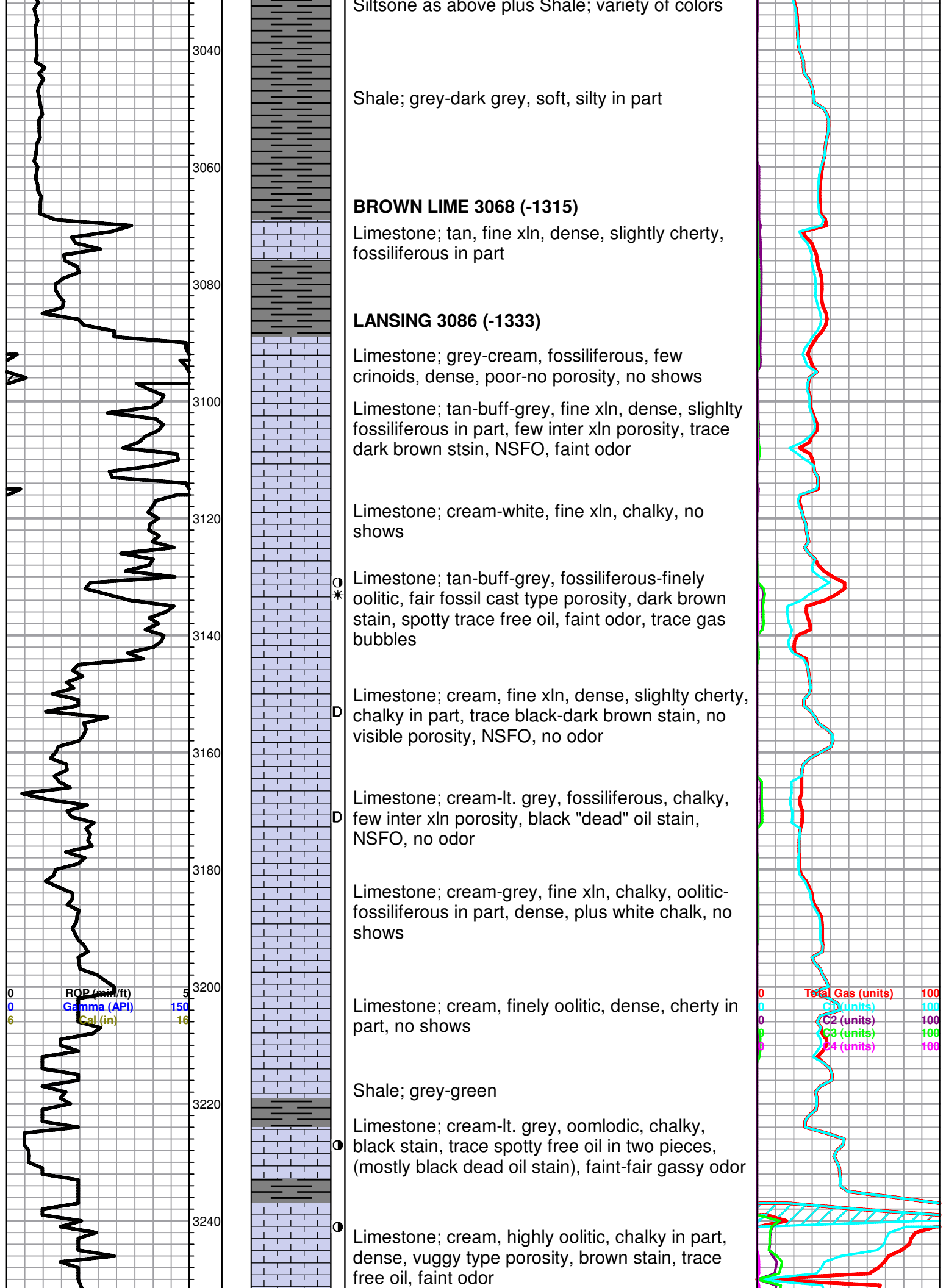
black carboniferous shale, plus dark grey shale

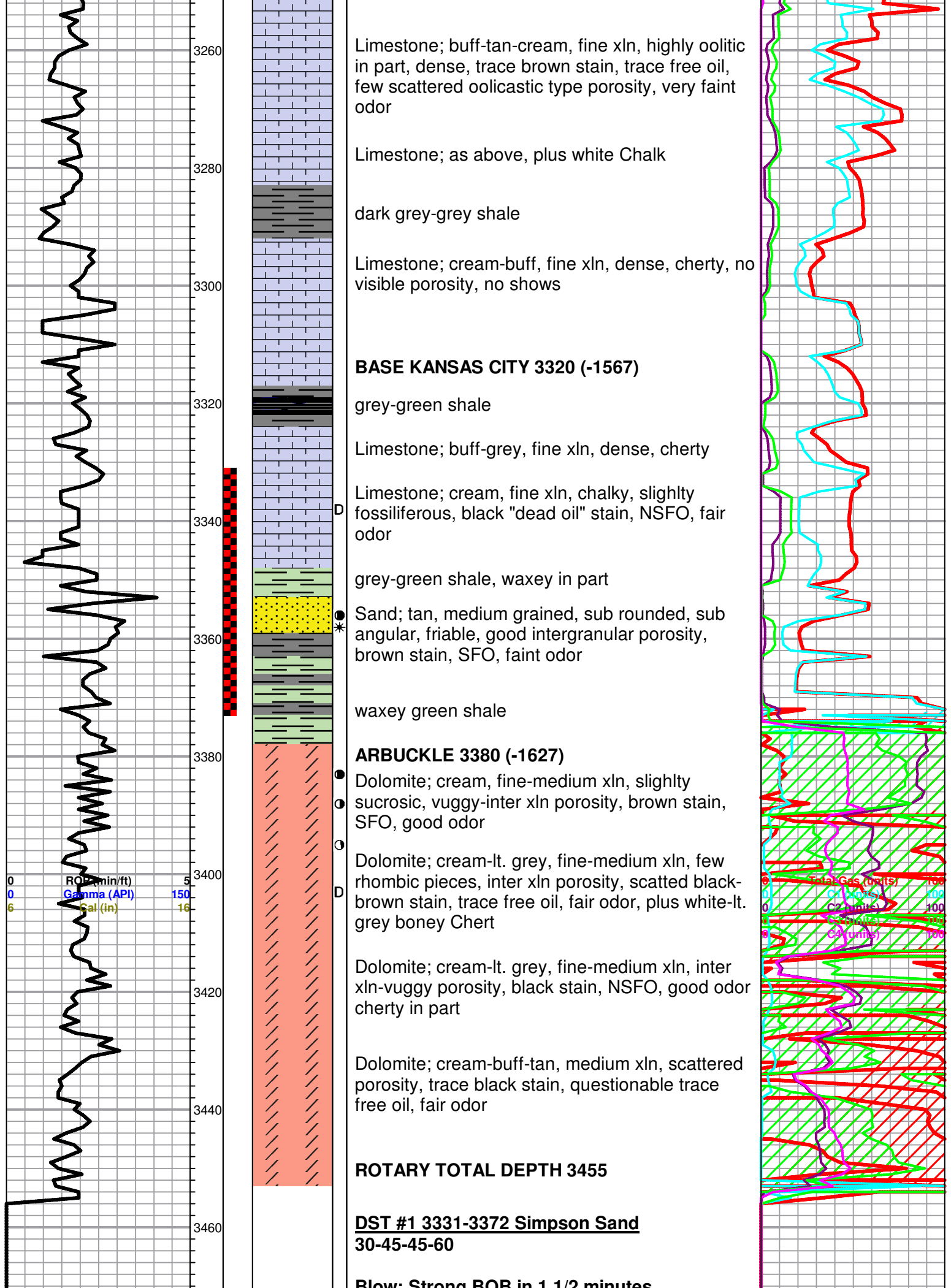
Limestone; lt. grey-cream, fine xln, chalky, dense, no shows, trace FeS<sub>2</sub>

Limestone; white-cream, fine xln, granular, slightly fossiliferous, scattered fine xln-finely oomoldic porosity, no shows









3260  
3280  
3300  
3320  
3340  
3360  
3380  
3400  
3420  
3440  
3460

Limestone; buff-tan-cream, fine xln, highly oolitic in part, dense, trace brown stain, trace free oil, few scattered oolitic type porosity, very faint odor

Limestone; as above, plus white Chalk

dark grey-grey shale

Limestone; cream-buff, fine xln, dense, cherty, no visible porosity, no shows

**BASE KANSAS CITY 3320 (-1567)**

grey-green shale

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

Limestone; cream, fine xln, chalky, slightly fossiliferous, black "dead oil" stain, NSFO, fair odor

grey-green shale, waxey in part

● Sand; tan, medium grained, sub rounded, sub angular, friable, good intergranular porosity, brown stain, SFO, faint odor

waxey green shale

**ARBUCKLE 3380 (-1627)**

● Dolomite; cream, fine-medium xln, slightly sucrosic, vuggy-inter xln porosity, brown stain, SFO, good odor

○ Dolomite; cream-lt. grey, fine-medium xln, few rhombic pieces, inter xln porosity, scatted black-brown stain, trace free oil, fair odor, plus white-lt. grey boney Chert

Dolomite; cream-lt. grey, fine-medium xln, inter xln-vuggy porosity, black stain, NSFO, good odor cherty in part

Dolomite; cream-buff-tan, medium xln, scattered porosity, trace black stain, questionable trace free oil, fair odor

**ROTARY TOTAL DEPTH 3455**

**DST #1 3331-3372 Simpson Sand**  
**30-45-45-60**

**Blow; Strong BOB in 1 1/2 minutes**

0 ROP (min/ft) 5  
0 Gamma (API) 150  
6 Cal (in) 16

Total Gas (bbl/s) 100  
C1 (bbl/s) 100  
C2 (bbl/s) 100  
C3 (bbl/s) 100  
CO2 (bbl/s) 100

3480

3500

3520

**Weak surface blow back  
Final blow BOB in 1 minute  
Weak blow back**

**Recovery;  
2240' Gas in pipe  
290' GMCO (11%gas, 55%oil, 34%mud)**

**Pressure;  
ISIP 164  
FSIP 165  
IFP 29-84  
FFP 91-112  
HSH 1617-1593**