



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1206640
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: _____

1206640

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	Goss 1-17
Doc ID	1206640

Tops

Name	Top	Datum
Heebner	3238	-1395
Toronto	3252	-1409
Brown Lime	3389	-1546
Lansing	3418	-1575
Misner Shale	3790	-1947
Simpson SD	3955	-2112
Arbuckle	3995	-2152
RTD	4060	-2217



Joshua R. Austin

Petroleum Geologist

report for

RAMA Operating CO., Inc



COMPANY: RAMA Operating Company, Inc.

LEASE: Goss #1-17

FIELD: Zenith-Peace Creek

LOCATION: Se-Nw-NW-NW (335' FNL & 595' FWL)

SEC: 17 **TWSP:** 24s **RGE:** 11w

COUNTY: Stafford **STATE:** Kansas

KB: 1843' **GL:** 1834'

API # 15-185-23872-00-00

CONTRACTOR: Sterling Drilling (rig #4)

Spud: 04/28/2014 **Comp:** 05/04/2014

RTD: 4060' **LTD:** 4057'

Mud Up: 2771' **Type Mud:** Chemical

Samples Saved From: 2900'-RTD

Drilling Time Kept From: 2900' - RTD

Samples Examined From: 2900' - RTD

Geological Supervision From: 3150' to RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @ 295'

Production Casing: 5 1/2" @ 4058'

Electronic Surveys: By Pioneer Energy Services

NOTES

On the basis of the positive structural position, drill stem test and after evaluating the electric logs, it was recommended by all parties involved in the Goss #1-17 to run 5 1/2" production casing to further test the Viola and Lansing zones.

RAMA Operating Co., Inc.

well comparison sheet

DRILLING WELL

COMPARISON WELL

COMPARISON WELL

Goss #1-17 Se-Nw-Nw-Nw Sec. 17 Twp. 24s Rge 11w					Kelly #1 C-Ne-SW Sec. 8 Twp. 24s Rge 11w				Piepmeier Sw-Sw-Nw Sec. 17 Twp. 24s Rge 11w			
1843 KB					1828 KB				1841 KB			
					Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3241	-1398	3238	-1395	3210	-1382	-16	-13	3248	-1407	9	12
Toronto	3255	-1412	3252	-1409	3230	-1402	-10	-7	3263	-1422	10	13
Douglas	3274	-1431	3271	-1428	3248	-1420	-11	-8	3285	-1444	13	16
Brown Lime	3392	-1549	3389	-1546	3374	-1546	-3	0	3401	-1560	11	14
Lansing	3420	-1577	3418	-1575	3396	-1568	-9	-7	3431	-1590	13	15
Kinderhook	3765	-1922	3763	-1920	3738	-1910	-12	-10				
Misener Sand	3794	-1951	3790	-1947	3751	-1923	-28	-24				
Viola	3820	-1977	3816	-1973	3770	-1942	-35	-31	3840	-1999	22	26
Simpson Shale	3959	-2116	3932	-2089					3961	-2120	4	31
Simpson Sand	3959	-2116	3955	-2112								
Arbuckle	3999	-2156	3995	-2152					4024	-2183	27	31
Total Depth	4060	-2217	4057	-2214	3830	-2002			4039	-2198	-19	-16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Rama Operating Co. Inc.

17-24s-11w Stafford Ks.

101 S. Main St.
Stafford Ks. 67578

Goss #1-17

Job Ticket: 54206

DST#: 1

ATTN: Josh Austin

Test Start: 2014.05.03 @ 05:30:33

GENERAL INFORMATION:

Formation: Viola

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:22:33

Time Test Ended: 13:04:18

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3748.00 ft (KB) To 3828.00 ft (KB) (TVD)

Total Depth: 3828.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1843.00 ft (KB)

1834.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8352

Outside

Press@RunDepth: 29.92 psig @ 3749.00 ft (KB)

Start Date: 2014.05.03

End Date: 2014.05.03

Capacity: 8000.00 psig

Last Calib.: 2014.05.03

Start Time: 05:30:38

End Time: 13:04:17

Time On Btrnt 2014.05.03 @ 08:20:48

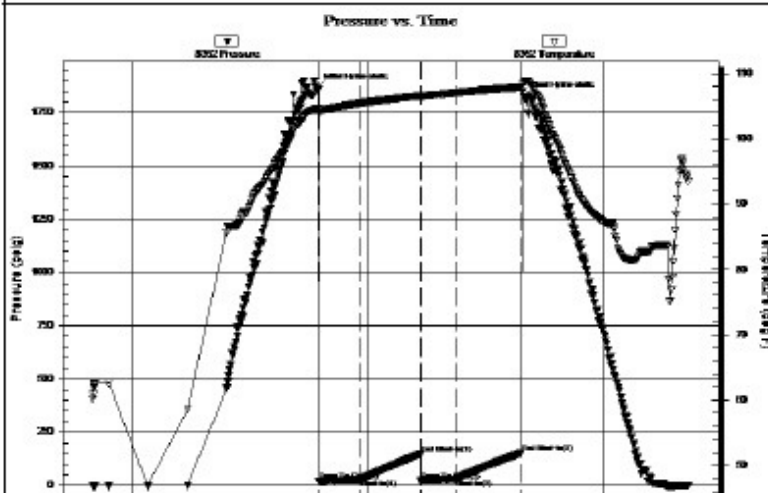
Time Off Btrnt 2014.05.03 @ 10:59:03

TEST COMMENT: IF:Weak blow . 1/2 - 2".

IS:No blow .

FF:Weak blow . 2 - 5".

FS:No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.20	104.56	Initial Hydro-static
2	19.63	103.64	Open To Flow (1)
35	29.14	105.43	Shut-In(1)
80	148.72	106.54	End Shut-In(1)
80	20.52	106.46	Open To Flow (2)
107	29.92	107.04	Shut-In(2)
157	153.24	107.88	End Shut-In(2)
159	1827.11	108.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud w /o specs	0.17
0.00	300 ft. of GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Rama Operating Co. Inc.

17-24s-11w Stafford Ks.

101 S. Main St.
Stafford Ks. 67578

Goss #1-17

Job Ticket: 54207

DST#: 2

ATTN: Josh Austin

Test Start: 2014.05.03 @ 20:34:35

GENERAL INFORMATION:

Formation: Viola
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:39:50
 Time Test Ended: 03:30:20

Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56

Interval: 3828.00 ft (KB) To 3850.00 ft (KB) (TVD)
 Total Depth: 3850.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1843.00 ft (KB)
 1834.00 ft (CF)
 KB to GRVCF: 9.00 ft

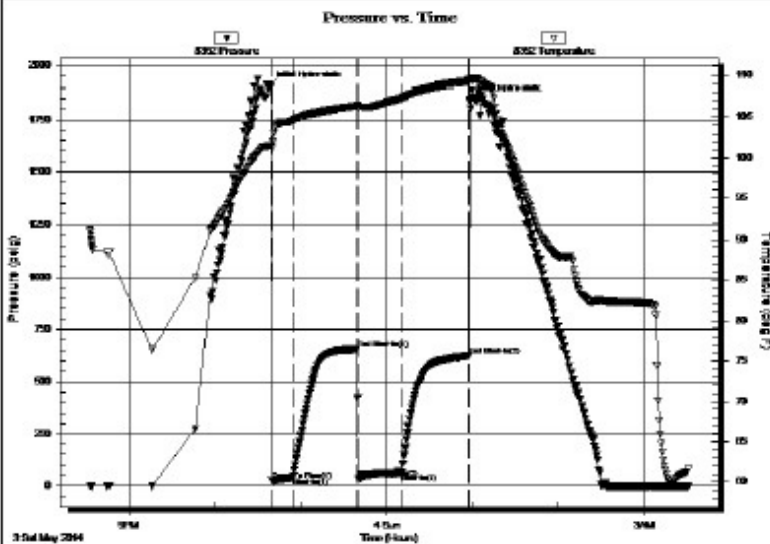
Serial #: 8352

Outside

Press@RunDepth: 60.09 psig @ 3829.00 ft (KB)
 Start Date: 2014.05.03 End Date: 2014.05.04
 Start Time: 20:34:40 End Time: 03:30:19

Capacity: 8000.00 psig
 Last Calib.: 2014.05.04
 Time On Btm: 2014.05.03 @ 22:38:35
 Time Off Btm: 2014.05.04 @ 00:58:20

TEST COMMENT: IF: Strong blow . B.O.B. in 50 secs.
 IS: No blow .
 FF: Strong blow . B.O.B. in 5 secs.
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.75	101.51	Initial Hydro-static
2	26.09	101.18	Open To Flow (1)
16	39.89	104.57	Shut-In(1)
61	654.15	106.37	End Shut-In(1)
62	37.63	106.18	Open To Flow (2)
92	60.09	107.27	Shut-In(2)
139	624.50	109.23	End Shut-In(2)
140	1836.98	109.41	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
60.00	GOCMW 48%g 18%o 14%m 20%w	0.30
80.00	GOCWM 14%g 7%o 18%w 61%m	0.39
0.00	2480 ft.of GIP	0.00

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

* Recovery from multiple tests

ROCK TYPES

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

ACCESSORIES

MINERAL

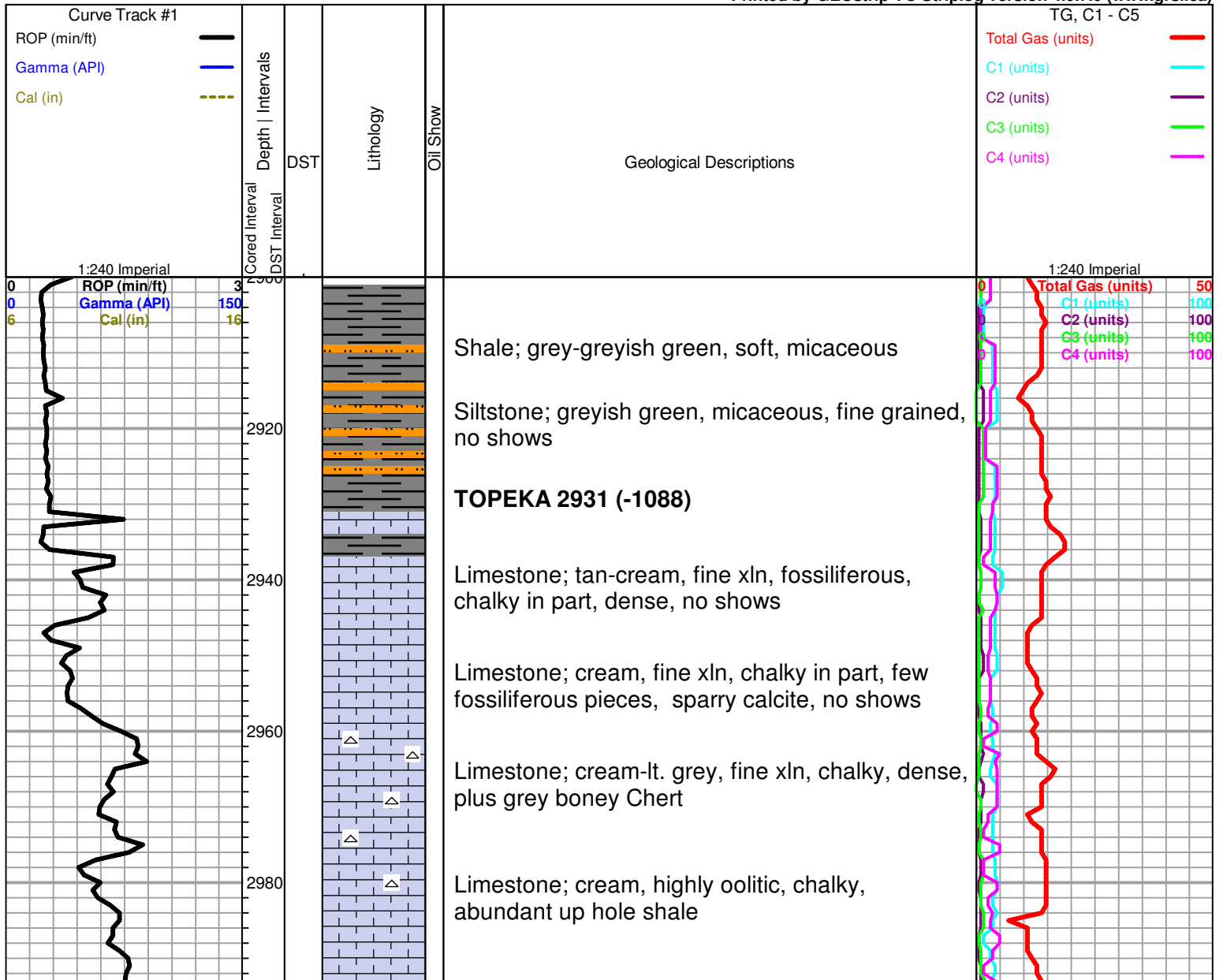
△ Chert White

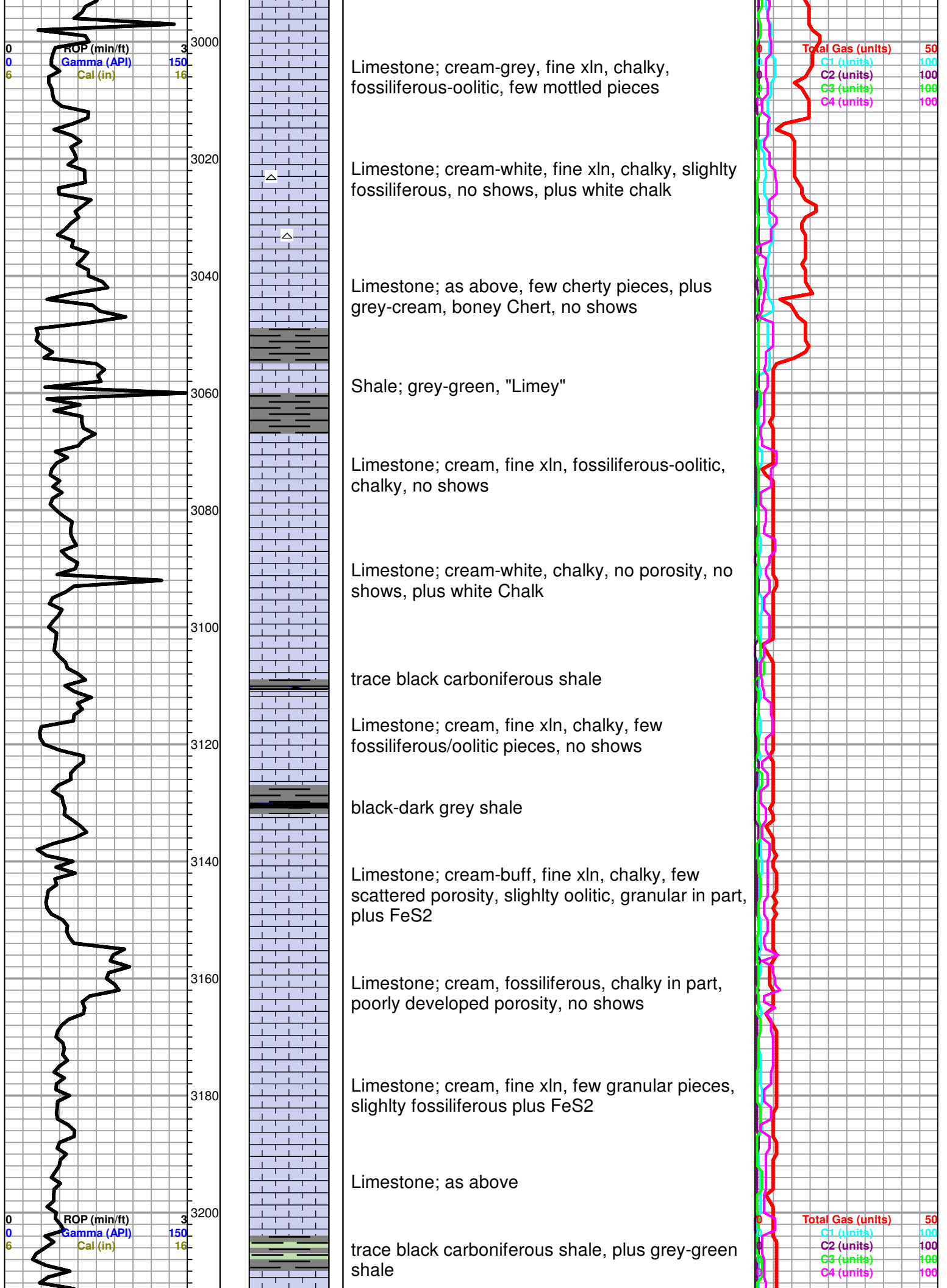
OTHER SYMBOLS

DST

■ DST Int
 ■ DST alt
 ■ Core
 || tail pipe

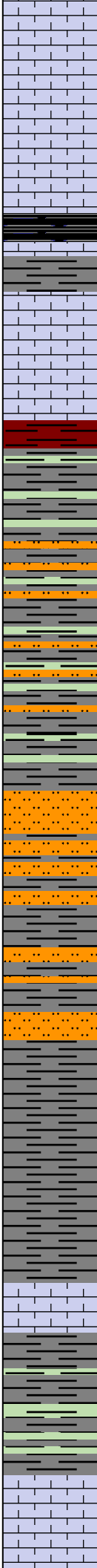
Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





3220
3240
3260
3280
3300
3320
3340
3360
3380
3400
3420

ROP (min/ft) 3
Gamma (API) 150
Cal (in) 16



Limestone; cream-tan, fine xln, chalky in part, dense, few scattered ixl porosity, no shows

HEEBNER 3241 (-1398)

Black Carboniferous Shale

grey-green Shale

TORONTO 3255 (-1412)

Limestone; cream-lt. grey, fine xln, chalky, few scattered pin point-ixl type porosity, no shows

DOUGLAS 3274 (-1431)

Shale; brick red-grey-green, silty in part, few micaceous pieces

Shale; grey-greyish green, silty, few micaceous pieces, plus trace Siltstone; greyish green, fine grained, poor porosity, no shows

Siltstone and Shale as above

Siltstone; grey-greyish green, very fine-fine grained, poorly developed porosity, slightly micaceous, no shows

Siltstone and grey silty, micaceous; Shale as above

Shale; grey-dark grey, micaceous in part

as above

BROWN LIME 3392 (-1549)

Limestone; buff-cream-tan, fine xln, dense, cherty, few fossiliferous pieces

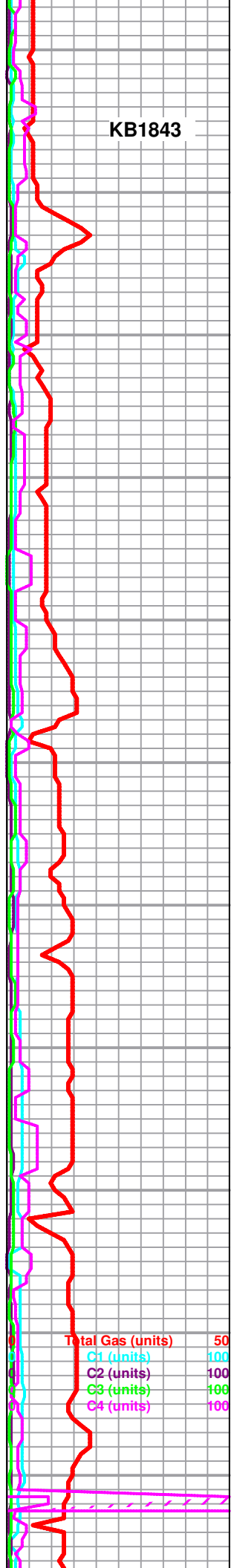
Shale; grey-green

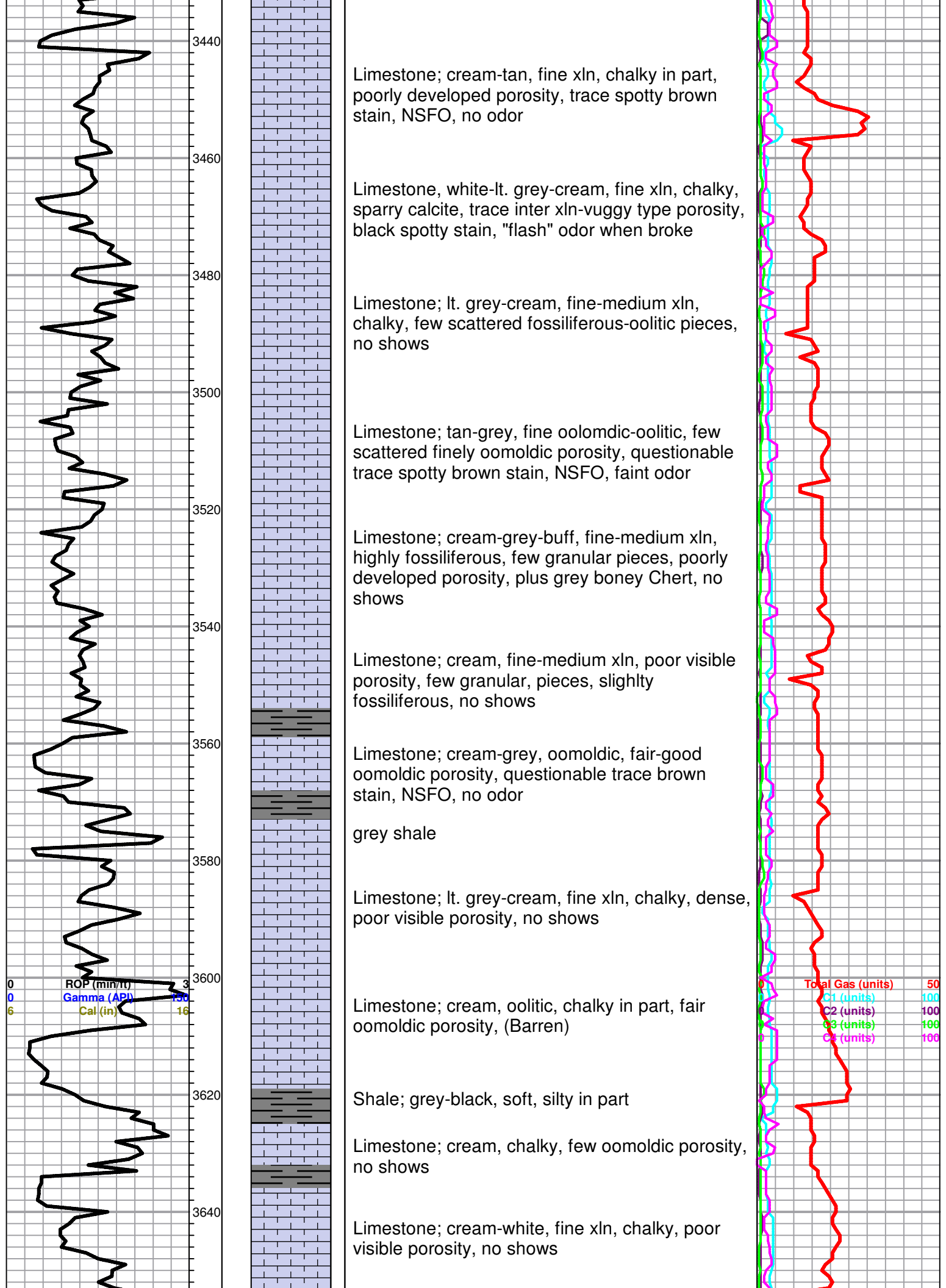
LANSING 3420 (-1577)

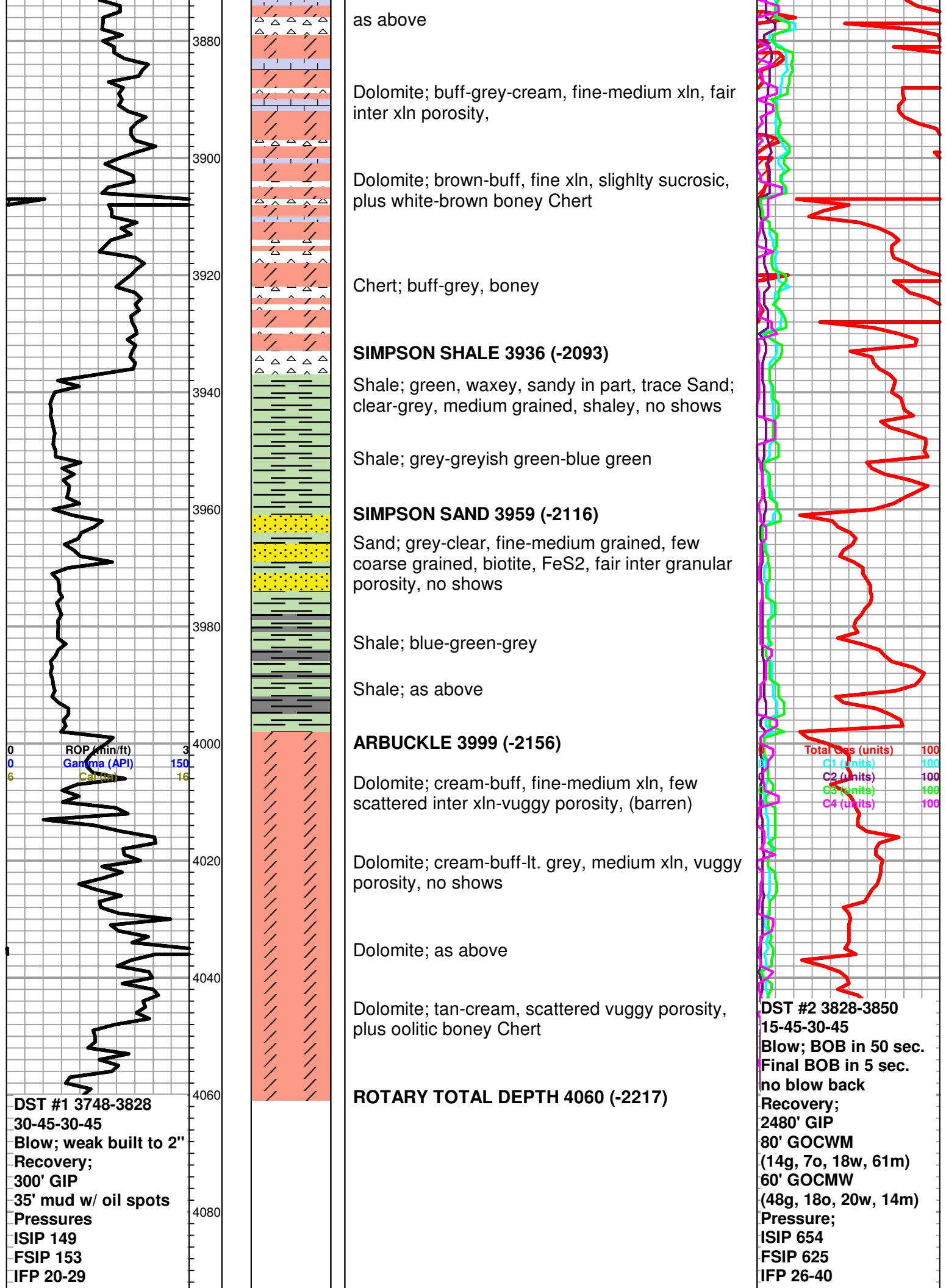
Limestone; cream, fine xln, dense, chalky in part, no shows

KB1843

Total Gas (units) 50
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100







3880
3900
3920
3940
3960
3980
4000
4020
4040
4060
4080

as above

Dolomite; buff-grey-cream, fine-medium xln, fair inter xln porosity,

Dolomite; brown-buff, fine xln, slightly sucrosic, plus white-brown boney Chert

Chert; buff-grey, boney

SIMPSON SHALE 3936 (-2093)

Shale; green, waxey, sandy in part, trace Sand; clear-grey, medium grained, shaley, no shows

Shale; grey-greyish green-blue green

SIMPSON SAND 3959 (-2116)

Sand; grey-clear, fine-medium grained, few coarse grained, biotite, FeS₂, fair inter granular porosity, no shows

Shale; blue-green-grey

Shale; as above

ARBUCKLE 3999 (-2156)

Dolomite; cream-buff, fine-medium xln, few scattered inter xln-vuggy porosity, (barren)

Dolomite; cream-buff-lt. grey, medium xln, vuggy porosity, no shows

Dolomite; as above

Dolomite; tan-cream, scattered vuggy porosity, plus oolitic boney Chert

ROTARY TOTAL DEPTH 4060 (-2217)

ROP (min/ft) 3
Gamma (API) 150
Caliper 16

DST #1 3748-3828
30-45-30-45
Blow; weak built to 2"
Recovery;
300' GIP
35' mud w/ oil spots
Pressures
ISIP 149
FSIP 153
IFP 20-29

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

DST #2 3828-3850
15-45-30-45
Blow; BOB in 50 sec.
Final BOB in 5 sec.
no blow back
Recovery;
2480' GIP
80' GOCWM
(14g, 7o, 18w, 61m)
60' GOCMW
(48g, 18o, 20w, 14m)
Pressure;
ISIP 654
FSIP 625
IFP 26-40

FFP 21-30
HSH 1865-1827

FFP 38-60
HSH 1901-1937

Customer <i>RSMO Operations</i>	Lease No.	Date <i>4-29-2014</i>
Lease <i>Goss</i>	Well # <i>1-17</i>	
Field Order # <i>10112</i>	Station <i>Pratt, KS</i>	Casing <i>8 5/8</i>
		Depth <i>293</i>
Type Job <i>CNW/ SURFACE</i>	Formation <i>TD-295</i>	County <i>Sts More</i>
		State <i>KS</i>
		Legal Description <i>17-24-11</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>293</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>17 bbl</i>	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>273</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative *Lenny Salas* Station Manager *Kevin Goraley* Treater *Darin Franklin*

Service Units <i>27283</i>	<i>33708</i>	<i>20920</i>	<i>19831</i>	<i>19862</i>				
Driver Names <i>Darin</i>	<i>Ed</i>	<i>Ed</i>	<i>Core</i>	<i>Core</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:00pm</i>					<i>ON LOCATION / SS PERY MEETINGS</i>
					<i>RUN 7 JOBS C/SIN + L5 SERS 293</i>
<i>10:30pm</i>	<i>300</i>		<i>3</i>	<i>5</i>	<i>PUMP 3 bbls W STOP</i>
	<i>300</i>		<i>65</i>	<i>5</i>	<i>PUMP 300s, 60/40 P02, 3%CC, 25% GEL/SLURRY</i>
					<i>14.8 PPS, 1.21 VERT, 5.18 WSIC</i>
	<i>300</i>		<i>17</i>	<i>5</i>	<i>DISDISC / FRESH WCL</i>
<i>11:15pm</i>					<i>SHUT IN</i>
					<i>CORE. CEMENT TO PET</i>
					<i>JOB COMPLETE / DARIN & CREW</i>
					<i>THANK YOU!!!</i>

Customer KANNA OPERATING	Lease No.	Date 5-5-14
Lease Goss	Well # 1-17	
Field Order # 10262	Station PLATT, KS	Casing 5 1/2
Type Job CNW - LOW STRESS	Depth 4058	County STAFFORD
	Formation TD-4060	State KS
		Legal Description 17-24-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2								
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
4058								
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
4058								

Customer Representative ROBIN	Station Manager KEVIN	Treater LOUISY
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Service Units 19907	19889-19843	19826-19860
Driver Names KC	PATE	COLE

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0800					ON LOCATION
					RUN 4048' 5% CSC - 5TS
					GUIDE SHOE, INSERT IN 1ST COLLAR
					CENT-3-6-8-10 BASKET-4
1015					TRAP BOTTOM. DROP BACK - CALCULATE
1100	200		5	6	PUMP 5 bbl H₂O
	200		12	6	PUMP 12 bbl MUD FLUSH
	200		5	6	PUMP 5 bbl H₂O
	200		32	6	MIX 125 gal AAZ 1/4" CF
					1/4% DEFAMMER, 10% SATEL 3/4%
					CENS BLOC, 3/10" FLA-327 5" GILSONITE
					15.0 spg, 1.43 cft/sk 6.0 H₂O/sk
					STOP - WASH LINE - DROP PLUG
	0		0	6	START DESP.
	300		72	6	LIFT CEMENT
	750		90	3	SLOW RATE
1130	1250		98.5	3	PIC DOWN - HOLD
					PINC. RAT HOLE - 30SK 60/40 PIZ
					PINC. HOUSE HOLE - 20SK 60/40 PIZ
1200					JOB COMPLETE - KEVIN