Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1090107

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 # 4058
Name: American Warrior, Inc.
Address 1: 3118 Cummings Rd
Address 2: PO BOX 399
City: GARDEN CITY State: KS Zip: 67846 + ____
Contact Person: Kevin wiles SR
Phone: (620) 275-2963
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: James Musgrove
Purchaser: NCRA

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 #:

05/18/2012	05/24/2012	06/2/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-159-22686-00-00
Spot Description: E/2-W/2-NW-NW
E2 - W2 - NW - NW Sec. 21 Twp. 19 S. R. 10 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
600 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Rice
Lease Name: Eatinger Well #: 3-21
Field Name: Chase-Silica
Producing Formation: Douglas Sand
Elevation: Ground: 1765 Kelly Bushing: 1775
Total Vertical Depth: 3506 Plug Back Total Depth: 3444
Amount of Surface Pipe Set and Cemented at: 305 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: 12000 ppm Fluid volume: 500 bbls
Dewatering method used: Evaporated

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: 08/09/2012
☑ **Confidential Release Date:** 08/09/2014
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 08/15/2012

[redacted] 1090107

Operator Name: American Warrior, Inc. Lease Name: Eatinger Well #: 3-21

Sec. 21 Twp. 19 S. R. 10 ☐ East ☑ West County: Rice

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	2825	-1050
Toronto	2844	-1069
Lansing	2968	-1193
BKC	3232	-1457
Congl.	3254	-1479
Arbuckle	3316	-1541
Granite Wash	3409	-1634

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	305	class A	250	3%cc,2%gel
Production	7.875	5.50	14	3506	EA-2	250	flocele,d-air

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
4	2872-2890	1500gals 15% MCA & 21500#s	2872-2890
		20/40 sand	

TUBING RECORD: Size: 2.3750 Set At: 3400 Packer At: None

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 7/18/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10	0	30	0	28

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☑ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
2872-2890

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Eatinger 3-21
Doc ID	1090107

All Electric Logs Run

Sonic
Micro
Dual IND
Dual Com. Prosity

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

August 09, 2012

Kevin wiles SR
American Warrior, Inc.
3118 Cummings Rd
PO BOX 399
GARDEN CITY, KS 67846

Re: ACO1
API 15-159-22686-00-00
Eatinger 3-21
NW/4 Sec.21-19S-10W
Rice County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Kevin wiles SR

ALLIED OIL & GAS SERVICES, LLC 053540

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend, KS

DATE 5-18-12	SEC. 21	TWP. 19S	RANGE 10W	CALLED OUT	ON LOCATION	JOB START 1:15PM	JOB FINISH 2:15PM
LEASE Ostinger	WELL # 3-21		LOCATION Chase, KS 4 west			COUNTY Rice	STATE KS
OLD OR (NEW) (Circle one)			1 3/4 north, east into				

CONTRACTOR Duke # 8
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 305
CASING SIZE 8 5/8 DEPTH 305
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15 ft.
PERFS.
DISPLACEMENT 18.47 BBL

OWNER American Warrior

EQUIPMENT

PUMP TRUCK # 366 CEMENTER Greg
HELPER
BULK TRUCK # 378 DRIVER Kevin W.
BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 250 sks Class A 3% cc 2% gel

COMMON	250	@	16.25	4062.50
POZMIX		@		
GEL	5	@	21.25	106.25
CHLORIDE	9	@	58.20	523.80
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	270.83	@	2.10	568.74
MILEAGE	12.35 x 15 x		2.35	435.83
			TOTAL	5.696.62

REMARKS:

On location. Rig up Allied. Circulate csg w/ Rig Mud. Hook up cement pump. Mix 250 sks Class A piece 3% cc 2% gel. Shut release plug and displace w/ 18.47 BBL fresh water. Bump plug. Cement did circulate. Rig down. Job complete. Plug down @ 3:15pm

SERVICE

DEPTH OF JOB 305
PUMP TRUCK CHARGE 1125.00
EXTRA FOOTAGE @
MILEAGE Hum 15 @ 7.00 105.00
MANIFOLD @
Hum 15 @ 4.00 60.00
@

TOTAL 1290.00

CHARGE TO:
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

Wooden Plug	@	92.00	92.00
	@		
	@		
	@		
	@		

TOTAL 92.00

SALES TAX (If Any)
TOTAL CHARGES 7078.62
DISCOUNT 25% 1.769.65 IF PAID IN 30 DAYS
5.308.96

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Steve H. Stephens

SIGNATURE Steve H. Stephens

Thank you!

SWIFT Services, Inc.

CHARGE TO: American Warrior
ADDRESS
CITY, STATE, ZIP CODE

TICKET Nº 23101

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Ness City KS	3-21	Eatinger	RICE	KS	Chase	25 MAY 12	
2.	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR DUKE	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO location	ORDER NO.	
3.	WELL TYPE oil	WELL CATEGORY Development	JOB PURPOSE cement long string		WELL PERMIT NO.	WELL LOCATION 21-19-10	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE TRK 114	70	mi			6 00	420 00
578		1			Pump Charge	1	ea			1500 00	1520 00
402		1			Centralizer	5½	in	9	ea	70 00	630 00
403		1			Cement Basket	5½	in	4	ea	250 00	1000 00
405		1			Formation packer shoe	5½	in	1	ea	1400 00	1400 00
406		1			Latch down plug & baffle	5½	in	1	ea	250 00	250 00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED | TIME SIGNED | ☐ A.M. ☐ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1	5200 00
2	7524 86
Subtotal	12,724 86
Rice TAX	668 68
TOTAL	13,393 54

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Brad | APPROVAL

Thank You!

SWIFT Services, Inc.

PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23101

CUSTOMER: American Warrior | WELL: Ettinger 3-21 | DATE: 25 MAY 12 | PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
330		1				SMD cement	300	sk			16 50	4950 00
276		1				flocele	75	lb			2 00	150 00
290		1				D-AIR	3	gal			35 00	105 00
281		1				mudflush	500	gal			1 25	625 00
221		1				KCL liquid	2	gal			25 00	50 00
581		1				SERVICE CHARGE	300	CUBIC FEET			2 00	600 00
583		1				MILEAGE CHARGE TOTAL WEIGHT 29853 LOADED MILES 70		TON MILES	1044.86		1 00	1044 86

CONTINUATION TOTAL 7524.86

JOB LOG — **SWIFT Services, Inc.** — DATE 25 MAY 12 — PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
American Warrior	3-21	Eatinger	cement long string	23101

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
								300sk SMD w/ ¼# Flocele - packer shoe
								5½ x 14# Casing RTD 3506 - LTD 3504
								Cent 1,3,5,7,9,11,13,15,60 Basket 2 15 60 40
								shoe jt 19.9 TOTAL PIPE 3471
	0300							on loc TRK 114
	0330							start 5½" 14# casing in well
	0500							circulate
	0545						1100	Drop ball - set packer shoe
	0550	4¾	12				250	Pump 500 gal mudflush
		4¾	20				250	Pump 20 bbl KCL flush
	0600		7					Plug RH - MH 30sks - 20sks
	0606	5¾	27				250	mix SMD cmt 50sks @ 11.2 ppg
		5¾	36				250	mix SMD cmt 50sks @ 12.7 ppg
		5½	16				300	mix SMD cmt 50sks @ 13.5 ppg
		5½	13				350	mix SMD cmt 50sks @ 14.5 ppg
								-200 total-
	0630							Drop latch down plug
								wash out pump & line
	0637	6¾					300	Displace plug
		6¾	75				750	
	0700	6¾					1500	Land plug
	0705							Release pressure to truck - dried up
								wash truck
								Rack up
	0740							job complete
								thanks Doug, Dave & Blaine

OPERATOR

Company:	American Warrior, Inc		
Address:	3118 Cummings Road PO BOX 399 Gaarden City, KS 67846		
Contact Geologist:			
Contact Phone Nbr:			
Well Name:	Eatinger #3-21		
Location:	8 5/8" @ 400'	API:	15-159-22686-00-00
Pool:		Field:	Chase-Silica
State:	Kansas, Rice Co.	Country:	USA

Musgrove PETROLEUM CORPORATION Claflin, Kansas

Scale 1:240 Imperial

Well Name:	Eatinger #3-21		
Surface Location:	8 5/8" @ 400'		
Bottom Location:			
API:	15-159-22686-00-00		
License Number:			
Spud Date:	5/17/2012	Time:	3:34 PM
Region:	E2-W2-NW-NW 21-19s-10w		
Drilling Completed:	5/24/2012	Time:	8:50 PM
Surface Coordinates:	660' From North Line & 600' From West Line		
Bottom Hole Coordinates:			
Ground Elevation:	1767.00ft		
K.B. Elevation:	1775.00ft		
Logged Interval:	2600.00ft	To:	3506.00ft
Total Depth:	3506.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical Mud was displaced at 2600'		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:		Latitude:	
N/S Co-ord:	660' From North Line		
E/W Co-ord:	600' From West Line		

LOGGED BY

Company:	Musgrove Petroleum Corp.		
Address:	212 Main St. Claflin, KS 67525		
Phone Nbr:	620-546-3960		
Logged By:	Geologist	Name:	Josh Austin

CONTRACTOR

Contractor:	Duke Drilling Co., Inc		
Rig #:	8		
Rig Type:			
Spud Date:	5/17/2012	Time:	3:34 PM
TD Date:	5/24/2012	Time:	8:50 PM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1775.00ft	Ground Elevation:	1767.00ft

K.B. to Ground: 8.00ft

NOTES

5 1/2" Production Casing was set and cemented for a salt water disposal well

American Warrior, Inc.

well comparison sheet

	DRILLING WELL Eatinger 3-21				COMPARISON WELL Eatinger 5			
	1775 KB				1768 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Heebner	2825	-1050	2822	-1047				
Toronto	2844	-1069	2843	-1068				
Douglas	2855	-1080	2856	-1081				
Brown Lime	2945	-1170	2942	-1167				
Lansing	2968	-1193	2970	-1195	2961	-1193	FLAT	-2
Base KC	3232	-1457	3243	-1468				
Conglomerate	3254	-1479	3250	-1475				
Arbuckle	3316	-1541	3318	-1543	3308	-1540	-1	-3
Granite Wash	3409	-1634	3406					
Total Depth	3506	-1731	3504	-1729				

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc

PO Box 399
Garden City KS 67846

ATTN: Cecil O'Brate

21-19s-10w Rice,KS

Eatinger #3-21

Job Ticket: 47037 **DST#:1**

Test Start: 2012.05.22 @ 08:26:01

GENERAL INFORMATION:

Formation: LKC G
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:19:26
Time Test Ended: 13:47:55

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 64

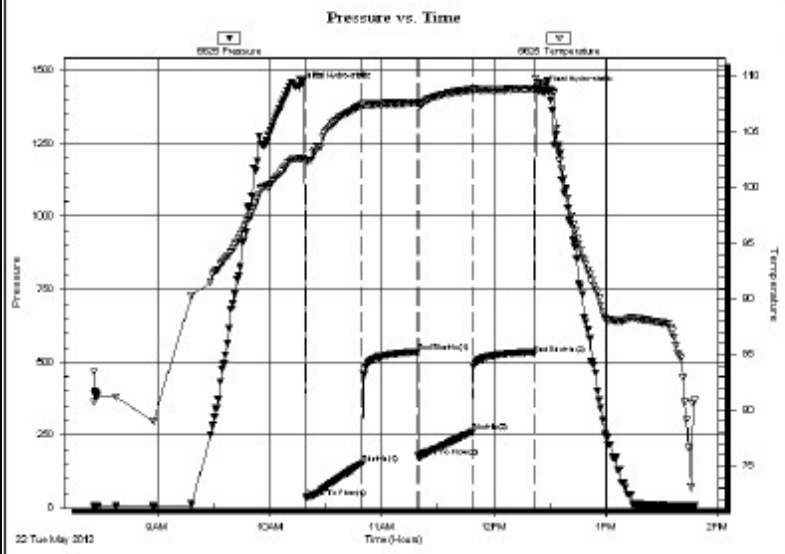
Interval: **3047.00 ft (KB) To 3060.00 ft (KB) (TVD)**
Total Depth: 3060.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1775.00 ft (KB)
1767.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 **Inside**
Press@RunDepth: 260.22 psig @ 3048.00 ft (KB)
Start Date: 2012.05.22 End Date: 2012.05.22
Start Time: 08:26:01 End Time: 13:47:55

Capacity: 8000.00 psig
Last Calib.: 2012.05.22
Time On Btm: 2012.05.22 @ 10:15:26
Time Off Btm: 2012.05.22 @ 12:25:26

TEST COMMENT: 30-IFP-w k to strg in 10 min
30-ISIP-no bl
30-FFP-w k to a fr bl 1/4"to 7"bl
30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1442.94	102.59	Initial Hydro-static
4	35.13	102.38	Open To Flow (1)
34	152.14	107.38	Shut-In(1)
64	535.24	107.66	End Shut-In(1)
64	175.39	107.54	Open To Flow (2)
93	260.22	108.82	Shut-In(2)
126	526.54	108.91	End Shut-In(2)
130	1428.97	109.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
475.00	Water	6.66

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc

P O Box 399
Garden City Ks 67846

ATTN: Cecil O'Brate

21-19s-10w Rice

Eatinger #3-21

Job Ticket: 47155 **DST#: 2**

Test Start: 2012.05.23 @ 10:55:58

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:36:53
Time Test Ended: 16:20:52

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 42

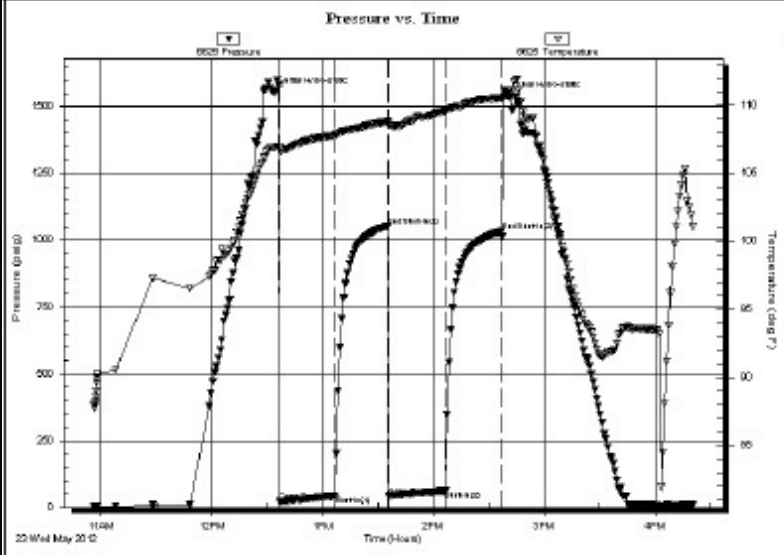
Interval: 3230.00 ft (KB) To 3334.00 ft (KB) (TVD)
Total Depth: 3334.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1775.00 ft (KB)
1767.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 **Inside**
Press@RunDepth: 61.64 psig @ 3235.00 ft (KB)
Start Date: 2012.05.23 End Date: 2012.05.23
Start Time: 10:55:58 End Time: 16:20:52

Capacity: 8000.00 psig
Last Calib.: 2012.05.23
Time On Btm: 2012.05.23 @ 12:34:23
Time Off Btm: 2012.05.23 @ 14:40:53

TEST COMMENT: 30-IFP-w k bl 1/2"to 1 1/4"bl
30-ISIP-no bl
30-FFP-surface bl to 1/2"bl
30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1554.01	106.89	Initial Hydro-static
3	21.18	106.70	Open To Flow (1)
32	41.51	107.78	Shut-In(1)
61	1053.45	108.79	End Shut-In(1)
62	44.05	108.55	Open To Flow (2)
92	61.64	109.56	Shut-In(2)
123	1033.50	110.53	End Shut-In(2)
127	1537.39	111.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MW 40%M60%W	1.26

* Recovery from multiple tests

Gas Rates

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

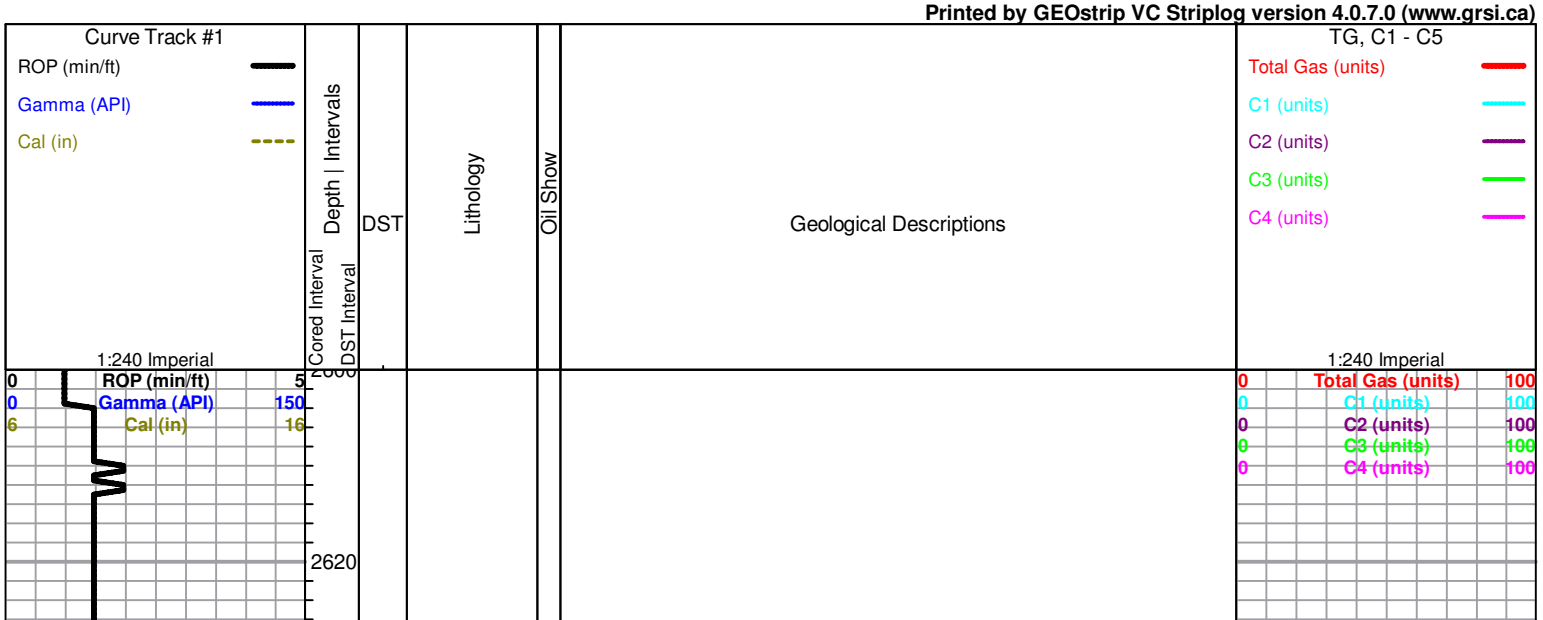
ROCK TYPES

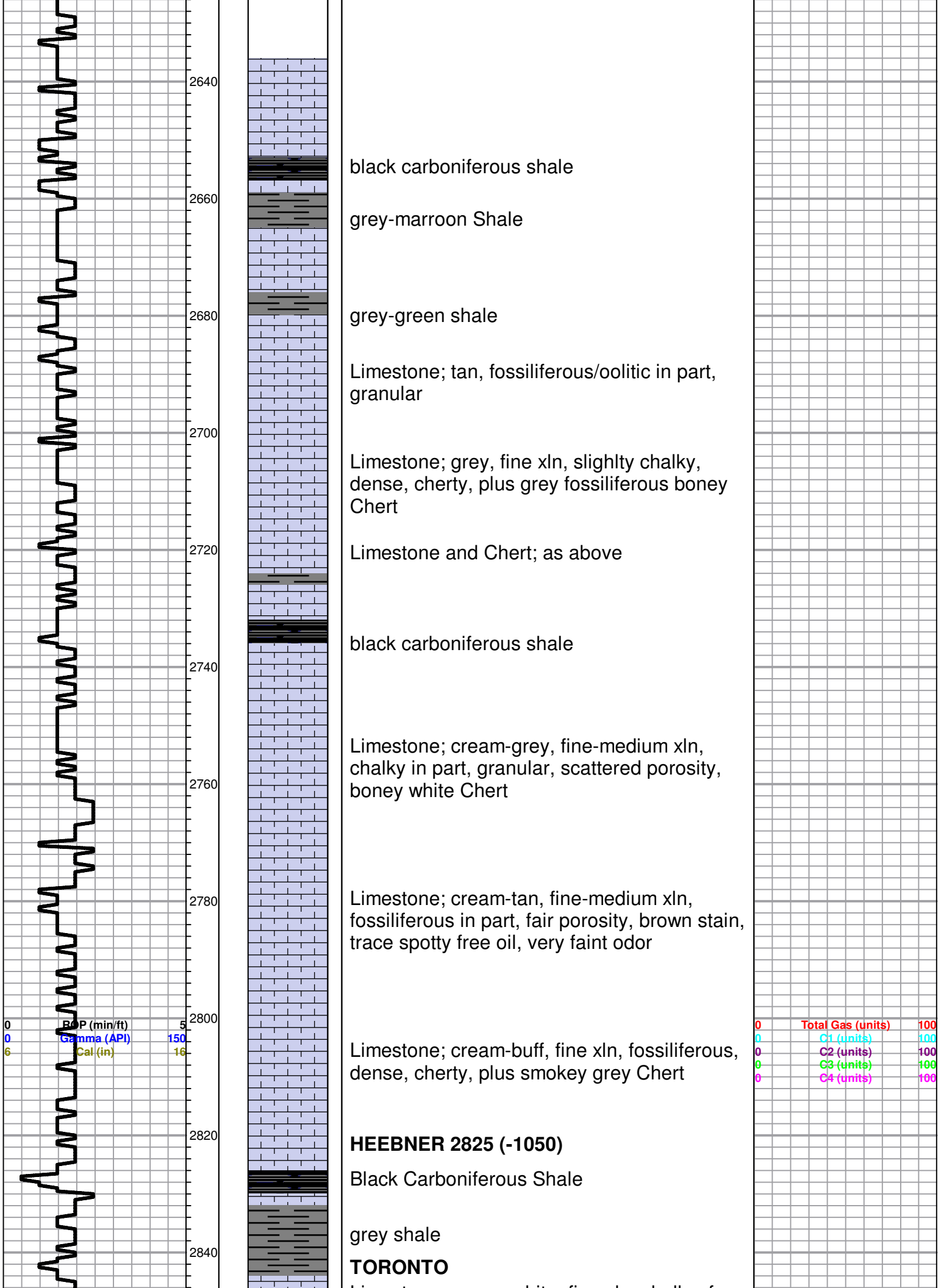
Congl, Chtcongl, Dolsec, Lmst fw7>, shale, gry, Carbon Sh, shale, red, Ss, Igne

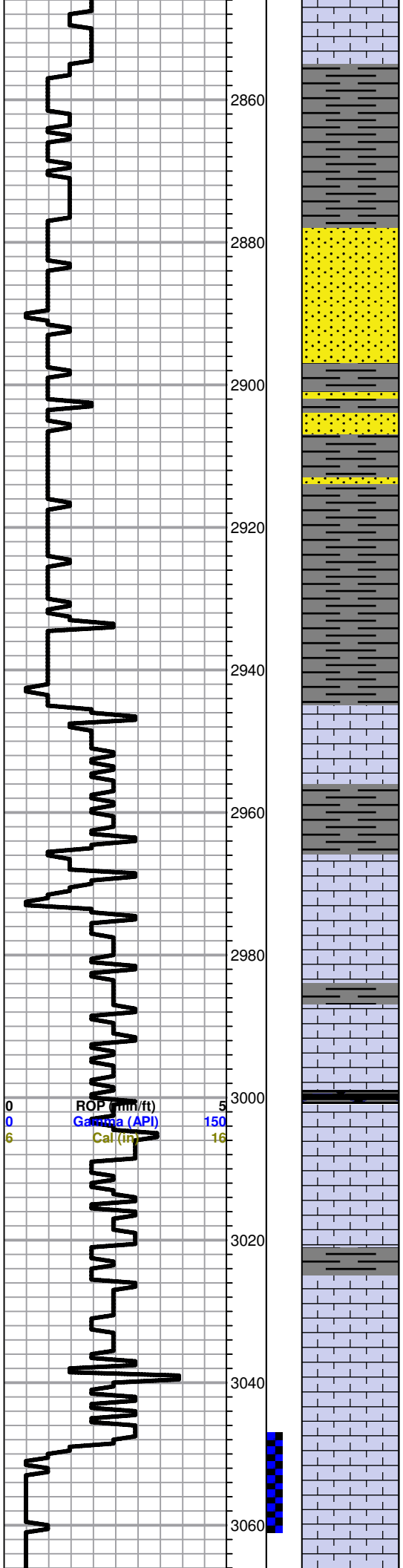
OTHER SYMBOLS

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

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




2640
2660
2680
2700
2720
2740
2760
2780
2800
2820
2840
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
black carboniferous shale
grey-marroon Shale
grey-green shale
Limestone; tan, fossiliferous/oolitic in part, granular
Limestone; grey, fine xln, slighlty chalky, dense, cherty, plus grey fossiliferous boney Chert
Limestone and Chert; as above
black carboniferous shale
Limestone; cream-grey, fine-medium xln, chalky in part, granular, scattered porosity, boney white Chert
Limestone; cream-tan, fine-medium xln, fossiliferous in part, fair porosity, brown stain, trace spotty free oil, very faint odor
Limestone; cream-buff, fine xln, fossiliferous, dense, cherty, plus smokey grey Chert
HEEBNER 2825 (-1050)
Black Carboniferous Shale
grey shale
TORONTO



Limestone; cream-white, fine xln, chalky, few dolomitic pieces, poor porosity

DOUGLAS

KB 1775

Shale; grey-green-marroon

Shale; grey, micaceous, silty

Sand; grey-greyish green, very fine grained, sub angular, sub rounded, friable, micaceous, fair inter granular porosity, brown-black stain, SFO, fair odor

Sand and Shale as above

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

BROWN LIME 2945 (-1170)

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

grey-greyish green Shale

LANSING 2968 (-1775)

Limestone; grey-buff, fine xln, fossiliferous, dense, cherty, poor visible porosity, no shows

Limestone; cream-tan, fine xln, chalky, fossiliferous, chalky, no shows

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

Limestone; cream-grey, fine xln, chalky in part, few scattered porosity, oolitic-fossiliferous, dense, trace brown stain, NSFO, no odor
Plus grey-white, boney Chert

Limestone; grey-cream, highly oolitic in part, dense, poorly developed porosity, trace brown, stain, trace spotty free oil, no odor

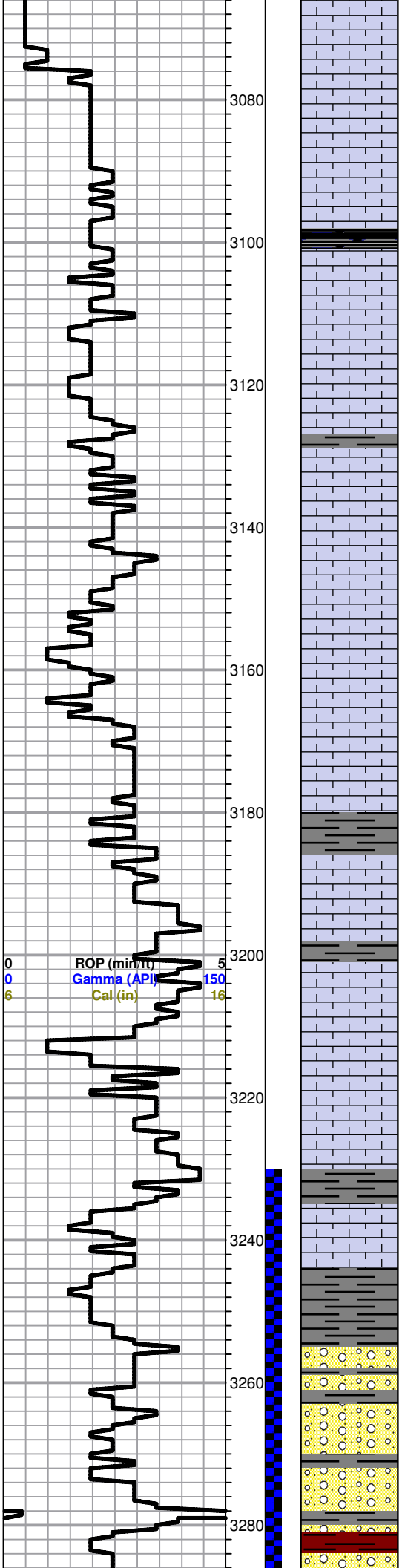
Limestone; buff-cream, oomoldic, fair-good oomoldic porosity, brown-grey stain, lt. SFO, fair odor

DST #1 3047-3060
30-30-30-30

Blow; BOB in 8 min
no blow back

Recovery;
475' Water

Pressures:



Limestone; as above brown stain, trace free oil

Limestone; cream-grey, fine xln, dense, chalky in part, poor porosity

black carboniferous shale

Limestone; grey, fine xln, slighlty fossiliferous, dense, cherty in part

Limestone; cream-buff, fine xln, chalky, few scattered porosity, slighlty oolitic, no shows

Limestone; cream-tan, oomoldic, chalky in part, fair-good oomoldic porosity, brown stain, SFO, good "gassy" odor

Limestone; cream-grey, fine xln, chalky dense

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

Limestone; tan-brown, fine-medium xln, sparry calcite cement, few scattered porosity, no shows, plus dark grey-black shale

Limestone; cream-buff, highly oolitic, dense, poor porosity, no shows

BASE KANSAS CITY 3232 (-1457)

Limestone; cream-white, chalky, dense

grey-marroon-green shale, silty in part

CONGLOMERATE

Limestone; cream-pink, fine xln, chalky

Shale; variety of colors, soft, slightly silty

Brick red soft Shale

Pressures;
ISIP 535
FSIP 526
IFP 35-152
FFP 175-260
HSH 1442-1428

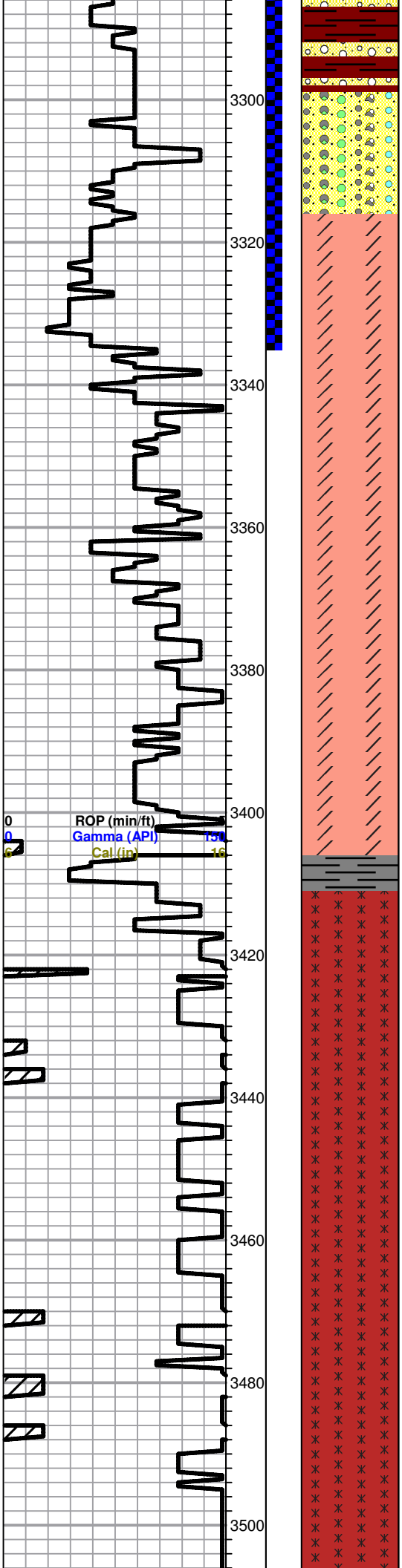
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

DST #2 3230-3334
30-30-30-30

Blow; weak 1/2"

Recovery; 90' MW

Pressures;
ISIP 1053
IFIP 1033
IFP 21-41
FFP 1554-1537



Brick red soft Shale

Shale as above plus variety colors of Chert

Chert; white-cream, boney

ARBUCKLE 3316 (-1541)

Dolomite; cream, fine xln, sucrosic in part, inter xln porosity, golden brown stain, slighlty SFO, faint odor

Dolomite; cream-tan, fine-medium xln, dense, few scatterd inter xln type porosity trace spotty brown stain, trace free oil, faint odor, plus FeS2

Dolomite; as above, plus grey boney Chert

Dolomite; cream-lt. grey-buff, fine xln, dense, poor visible porosity, slightly sucrosic, cherty

Dolomite; tan-buff, fine xln, slightly sucrosic, dense, poor visible porosity, plus Chert, cream, highly oolitic, bonsy

GRANITE WASH 3409 (-1634)

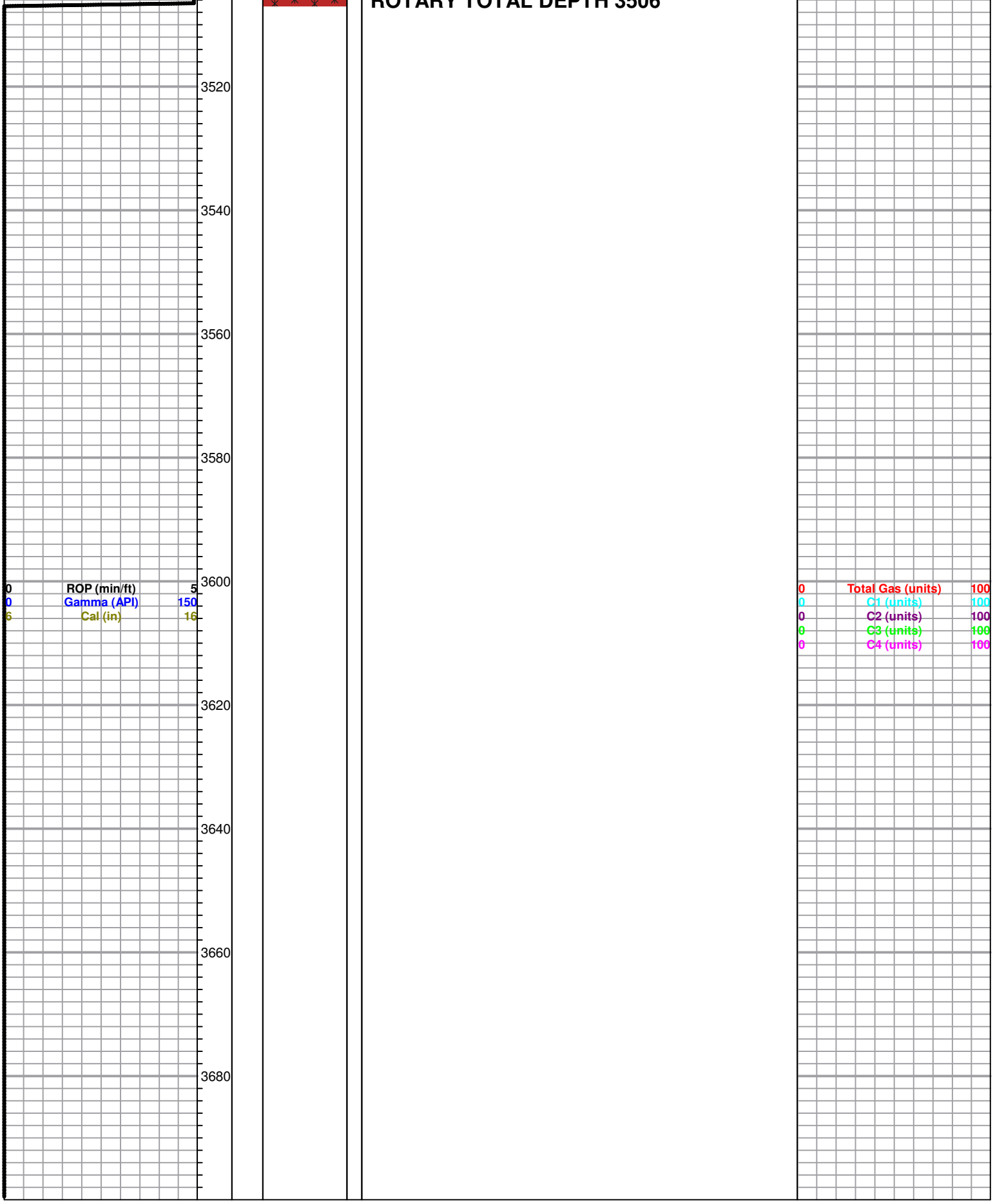
Quartzite; clear-pink, lt. grey, rose, dense, sub angular-angular

Quartzite; as above, plus abundant Shale; variety of colors

Quartzite; clear-pink-lt. grey; fine xln, dense, sub angular, plus glauconite

as above plus abundant shale variety of colors

ROTARY TOTAL DEPTH 3506


ROTARY TOTAL DEPTH 3506
3520
3540
3560
3580
3600
3620
3640
3660
3680
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100