KOLAR Document ID: 1472846

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33936
Name: Griffin, Charles N.
Address 1: PO BOX 347
Address 2:
City: PRATT State: KS Zip: 67124 + 0347
Contact Person: Charles N Griffin
Phone: (620) 672-9700
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Bruce Reed
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

06/22/2019 Spud Date or Recompletion Date
06/28/2019 Date Reached TD
07/12/2019 Completion Date or Recompletion Date

API No.: 15-151-22494-00-00
Spot Description:
SW - NE - SE - SW Sec. 28 Twp. 29 S. R. 15 ☐ East ☑ West
720 Feet from ☐ North / ☑ South Line of Section
2185 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: Pratt
Lease Name: ADDIE Well #: 6
Field Name:
Producing Formation: no producing formation
Elevation: Ground: 1976 Kelly Bushing: 1987
Total Vertical Depth: 4840 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 267 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: 0 ppm Fluid volume: 0 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: 10/02/2019
☐ **Confidential Release Date:** 10/01/2021
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Rene Stucky **Date:** 10/03/2019

Operator Name: Griffin, Charles N. Lease Name: ADDIE Well #: 6

Sec. 28 Twp. 29 S. R. 15 ☐ East ☑ West County: Pratt

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run:
Attached

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

Name	Top	Datum
Attached	Attached	Attached

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	267	Common	275	2% Gel 3% CC
Production	7.875	4.5	10.5	4843	Common	250	2% Gel, 10% salt, 5% Kolseal

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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ADDIE 6
Doc ID	1472846

All Electric Logs Run

Dual Induction Log
Sonic Log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ADDIE 6
Doc ID	1472846

Tops

Name	Top	Datum
Heebner	3896	-1909
Brown Lime	4064	-2077
Lansing	4087	-2100
Stark	4342	-2355
Base KC	4472	-2482
Pawnee	4533	-2546
Cherokee	4568	-2581
Viola	4606	-2619
Simpson	4754	-2767

Form	ACO1 - Well Completion
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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	267	Common	275	2% Gel 3% CC
Production	7.875	4.5	10.5	4843	Common	250	2% Gel, 10% salt, 5% Kolseal

OPERATOR

Company:	Charles N. Griffin		
Address:	PO Box 347 Pratt, KS 67124		
Contact Geologist:			
Contact Phone Nbr:			
Well Name:	#6 Addie		
Location:	Section 28-29S-15W		
API:	15-151-22494		
Pool:		Field:	Croft
State:	Kansas	Country:	USA

Scale 1:240 Imperial

Well Name:	#6 Addie		
Surface Location:	Section 28-29S-15W		
Bottom Location:			
API:	15-151-22494		
License Number:			
Spud Date:	6/22/2019	Time:	3:00 PM
Region:	Pratt County		
Drilling Completed:	6/27/2019	Time:	9:00 AM
Surface Coordinates:	720' FSL & 2185' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	1976.00ft		
K.B. Elevation:	1987.00ft		
Logged Interval:	3800.00ft	To:	4840.00ft
Total Depth:	4840.00ft		
Formation:			
Drilling Fluid Type:	Chemical (MudCo)		

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	
Latitude:	
N/S Co-ord:	720' FSL
E/W Co-ord:	2185' FWL

LOGGED BY

TERRATECH
ENERGY SERVICE, LLC

Company:	TerraTech Energy Service LLC.		
Address:	1632 S. West St. Suite 12 Wichita, KS 67208		
Phone Nbr:	316-617-3959		
Logged By:	Geologist	Name:	Bruce Reed

CONTRACTOR

Contractor:	WW Drilling		
Rig #:	14		
Rig Type:	mud rotary		
Spud Date:	6/22/2019	Time:	3:00 PM
TD Date:	6/27/2019	Time:	9:00 AM
Rig Release:	6/28/2019	Time:	10:15 AM

ELEVATIONS

K.B. Elevation:	1987.00ft	Ground Elevation:	1976.00ft
K.B. to Ground:	11.00ft		

NOTES

Surface Casing: 8-5/8" at 267'
Production Casing: 4-1/2" at 4842'

Daily Penetration:

06/22/19	Spud @ 3:00 PM	
06/23/19	445'	
06/24/19	2630'	
06/25/19	3773'	
06/26/19	4595'	
06/27/19	4770'	RTD @ 9:00 AM
06/28/19	4840'	Rig released @ 10:15 AM

DRILL STEM TEST

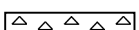
DST 1 4660' - 4690' Viola. Weak surface blow that died on the initial flow period. No blow during the second flow period. Recovered: 10' drilling mud (no shows).
IFP: 30"/ 18-21psi, ISIP: 45"/ 68 psi, FFP: 60"/ 21-22 psi, FSIP: 60"/ 39 psi

FORMATION TOPS

Formation	Sample Top	Datum	Log Top	Datum	Comparison*
Heebner	3896'	-1909	3900'	-1913	+1
Brown Lime	4064'	-2077	4066'	-2079	+1
Lansing	4087'	-2100	4088'	-2101	-6
Stark	4342'	-2355	4345'	-2358	-2
Base KC	4472'	-2482	4473'	-2486	+1
Pawnee	4533'	-2546	4537'	-2550	-2
Cherokee	4568'	-2581	4572'	-2585	flat
Viola	4606'	-2619	4610'	-2623	-1
Simpson	4754'	-2767	4757'	-2770	+10

*Charles N. Griffin, #5 Addie, 330' FSL & 1370' FWL, Section 28-29S-15W, Pratt County, Kansas

ROCK TYPES


Cht


Lmst fw7>


Carbon Sh

Dolprim | shale, gry | Ss

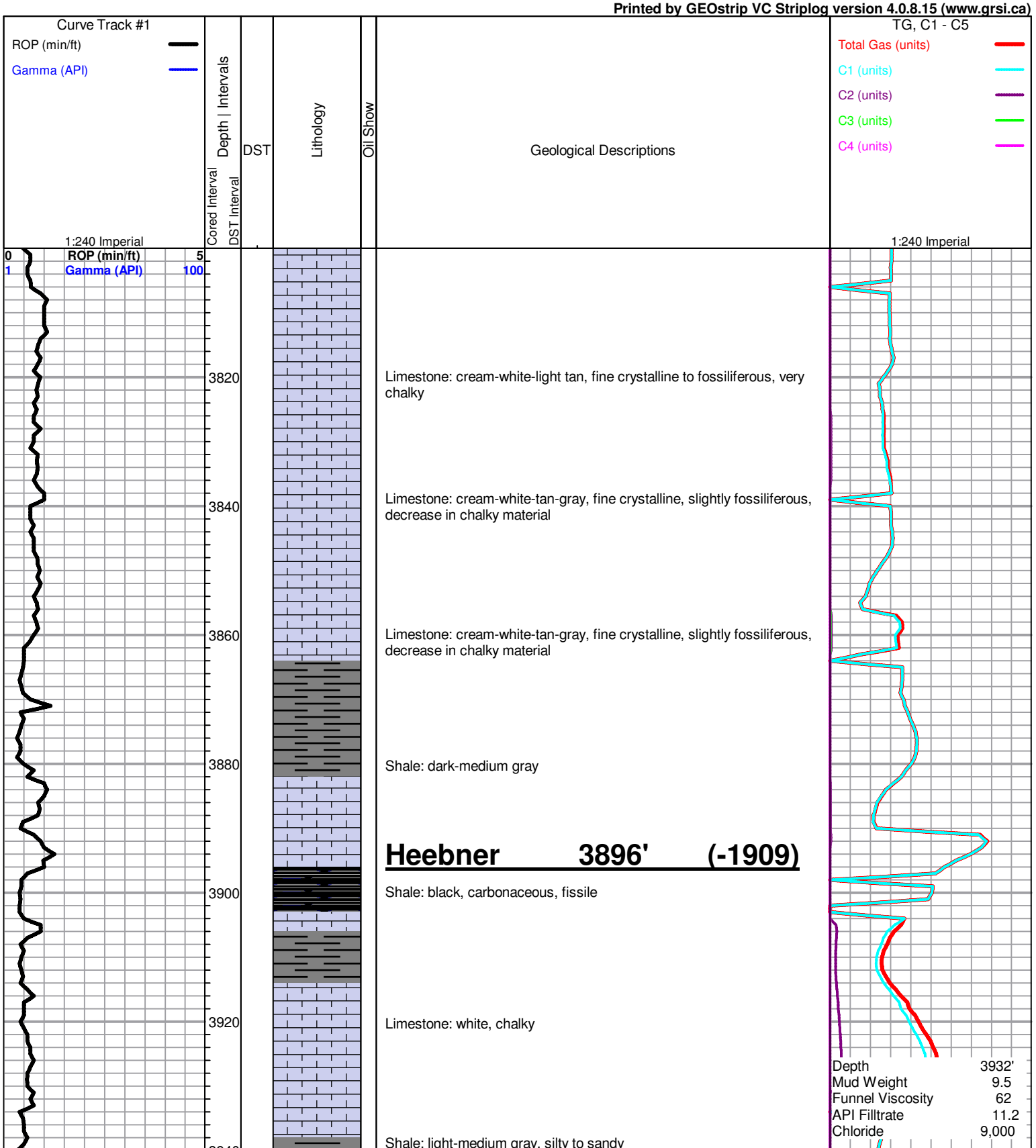
OTHER SYMBOLS

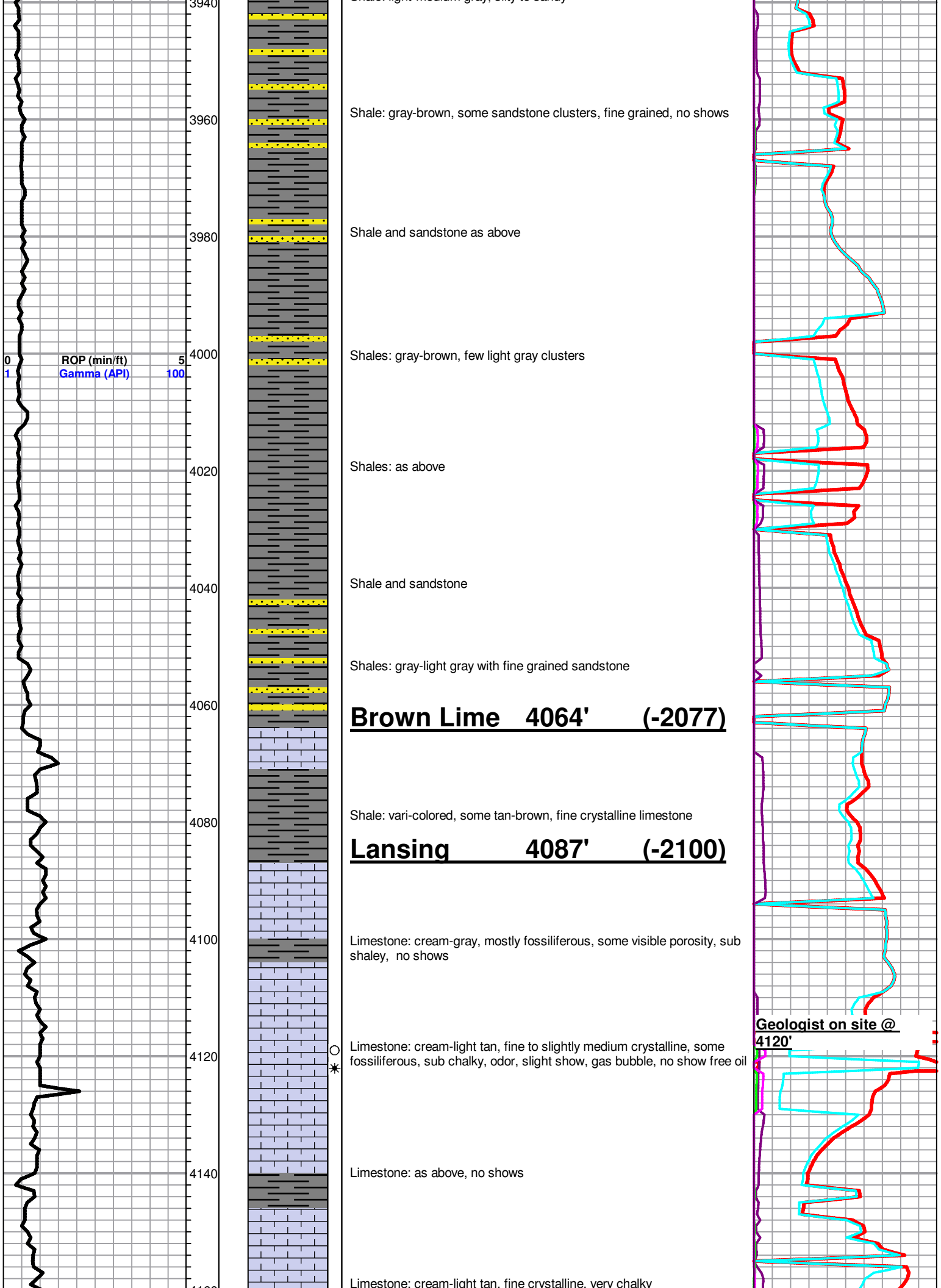
INTERVALS
- Core
- DST

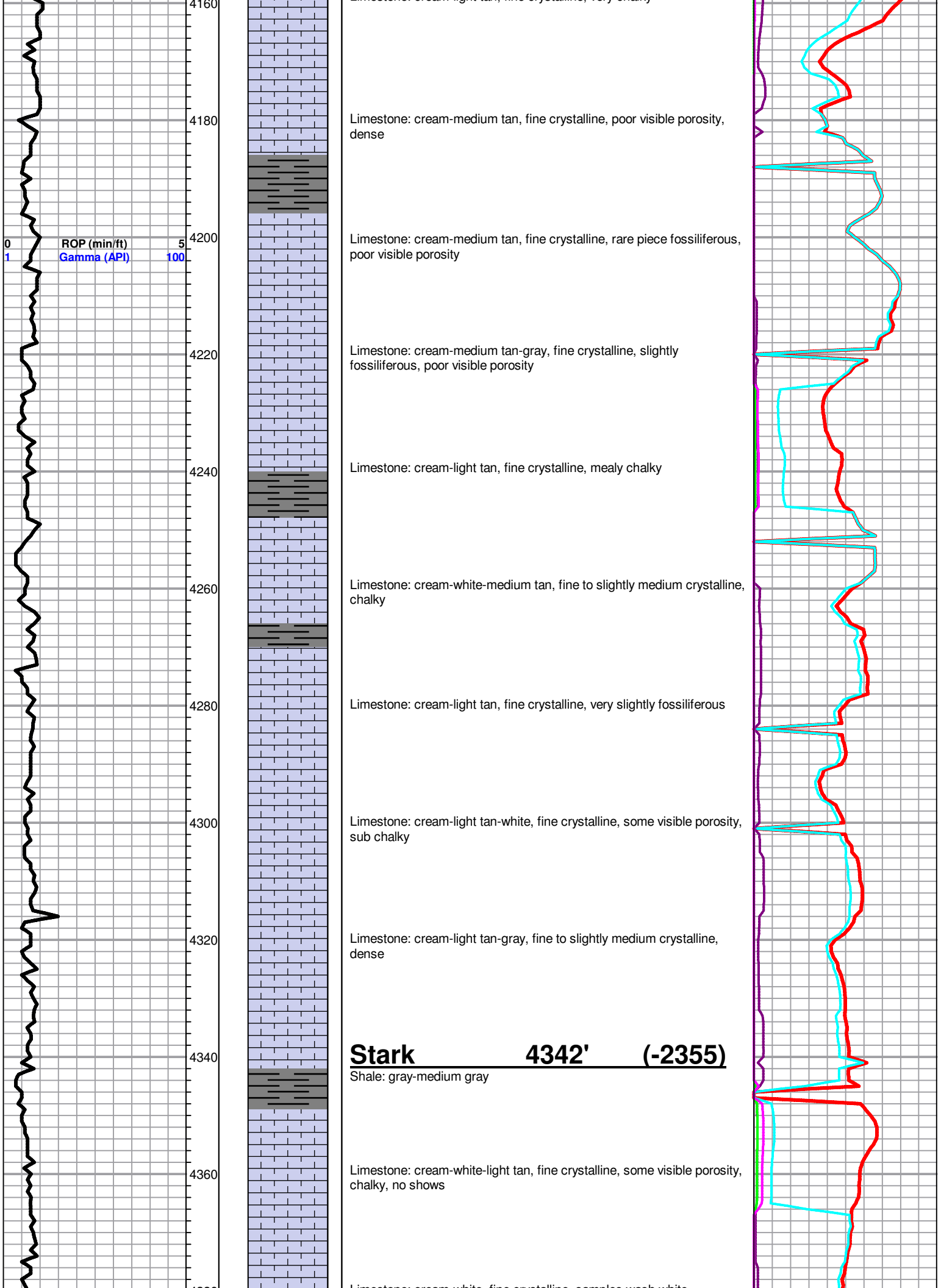
Oil Show
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- Gas

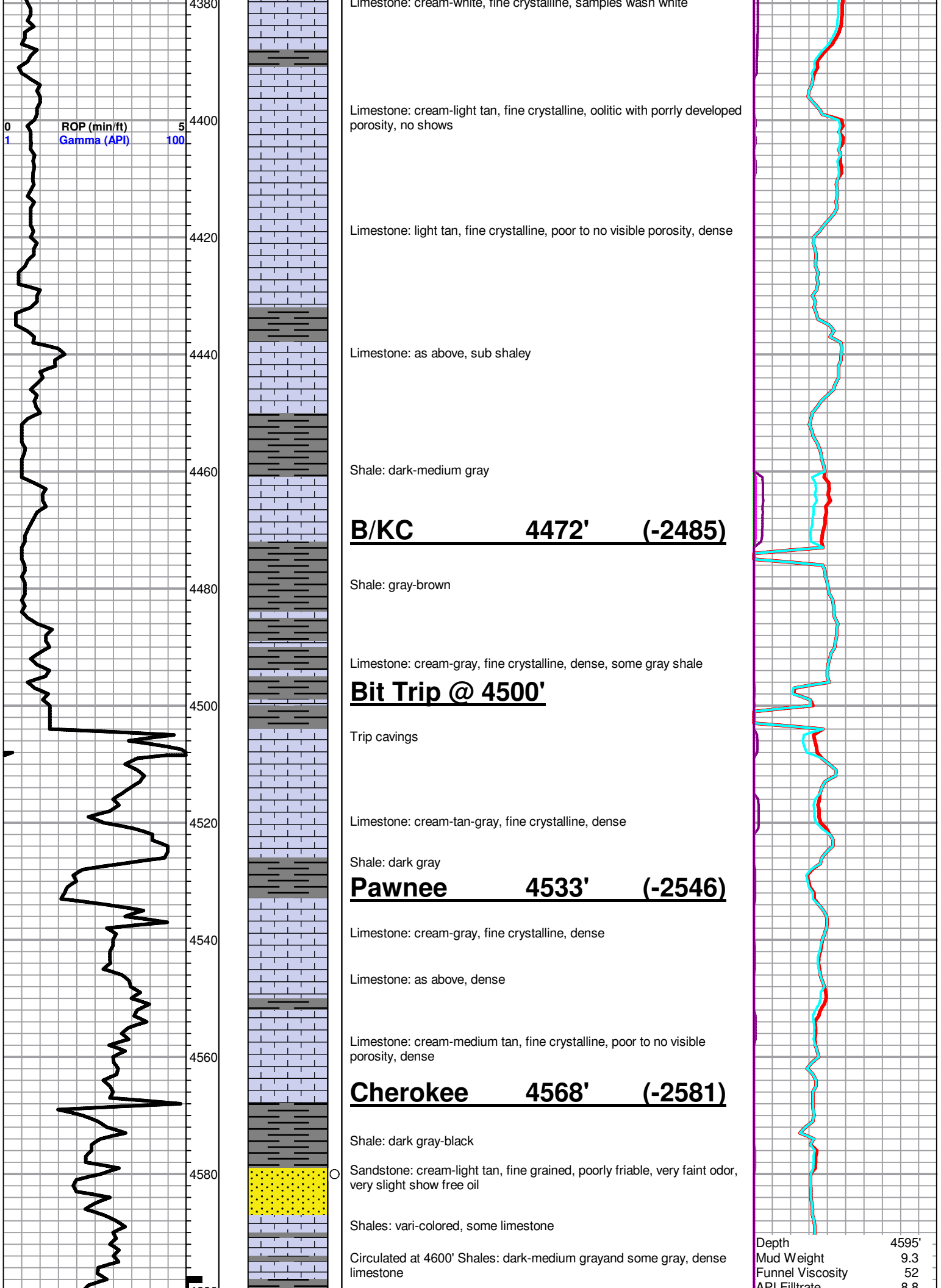
DST
- DST Int
- DST alt
- Core
- tail pipe

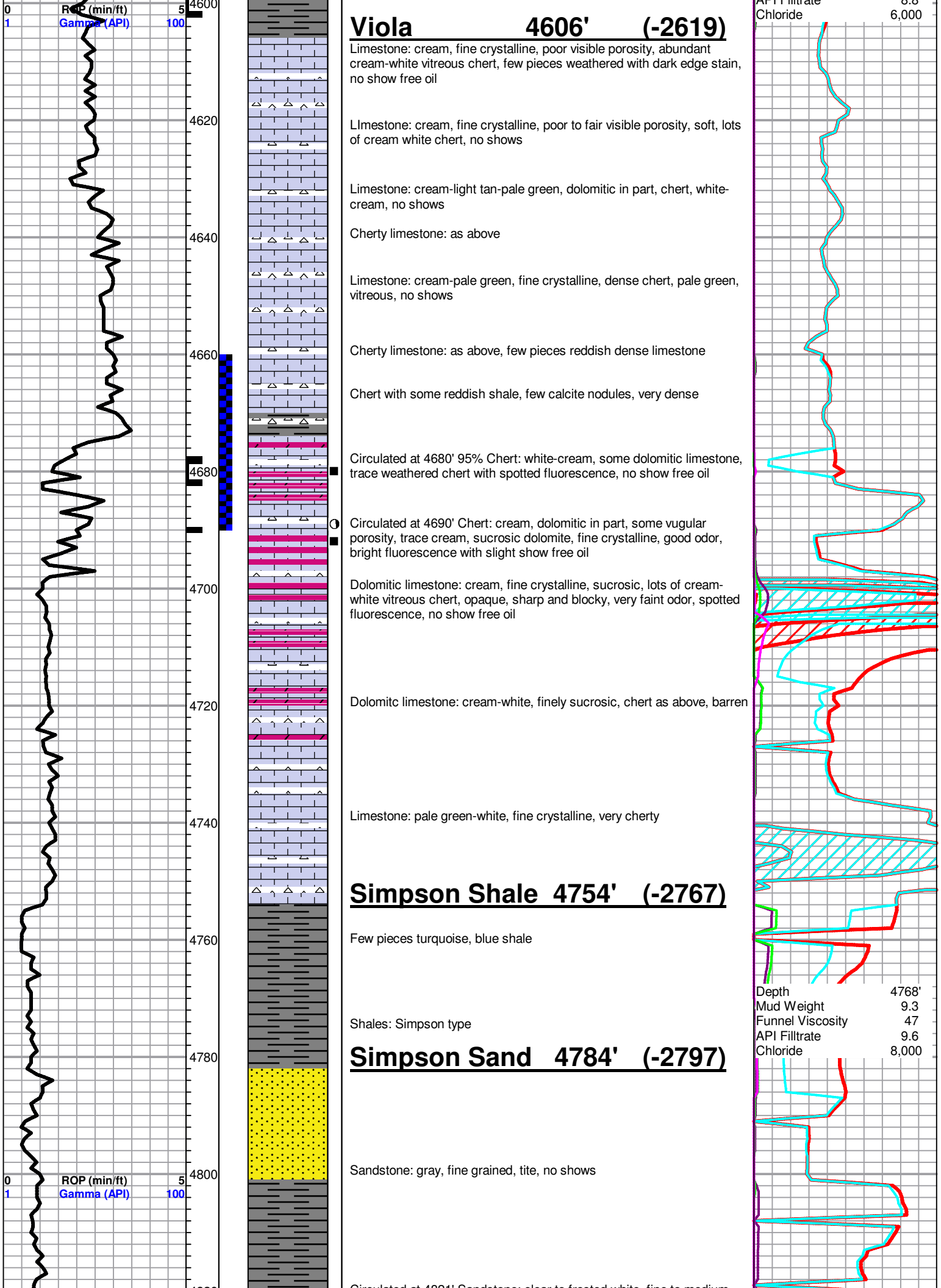
Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

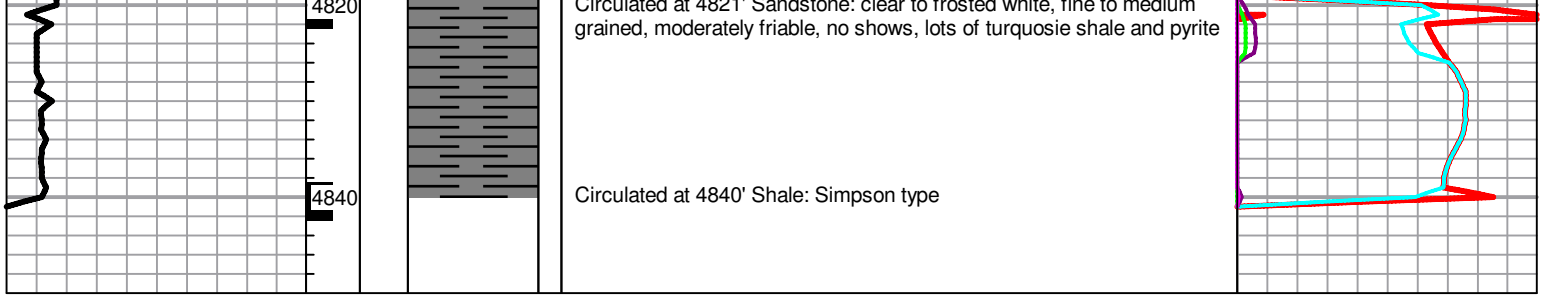



0
ROP (min/ft)
5
1
Gamma (API)
100
3940
3960
3980
4000
4020
4040
4060
4080
4100
4120
4140
Shale: gray-brown, some sandstone clusters, fine grained, no shows
Shale and sandstone as above
Shales: gray-brown, few light gray clusters
Shales: as above
Shale and sandstone
Shales: gray-light gray with fine grained sandstone
Brown Lime 4064' (-2077)
Shale: vari-colored, some tan-brown, fine crystalline limestone
Lansing 4087' (-2100)
Limestone: cream-gray, mostly fossiliferous, some visible porosity, sub shaley, no shows
Limestone: cream-light tan, fine to slightly medium crystalline, some fossiliferous, sub chalky, odor, slight show, gas bubble, no show free oil
Geologist on site @ 4120'
Limestone: as above, no shows
Limestone: cream-light tan, fine crystalline, very chalky


0
ROP (min/ft)
5
1
Gamma (API)
100
4160
4180
4200
4220
4240
4260
4280
4300
4320
4340
4360
Limestone: cream-light tan, fine crystalline, very chalky
Limestone: cream-medium tan, fine crystalline, poor visible porosity, dense
Limestone: cream-medium tan, fine crystalline, rare piece fossiliferous, poor visible porosity
Limestone: cream-medium tan-gray, fine crystalline, slightly fossiliferous, poor visible porosity
Limestone: cream-light tan, fine crystalline, mealy chalky
Limestone: cream-white-medium tan, fine to slightly medium crystalline, chalky
Limestone: cream-light tan, fine crystalline, very slightly fossiliferous
Limestone: cream-light tan-white, fine crystalline, some visible porosity, sub chalky
Limestone: cream-light tan-gray, fine to slightly medium crystalline, dense
Stark 4342' (-2355)
Shale: gray-medium gray
Limestone: cream-white-light tan, fine crystalline, some visible porosity, chalky, no shows


0 ROP (min/ft) 5
1 Gamma (API) 100
4380
4400
4420
4440
4460
4480
4500
4520
4540
4560
4580
Limestone: cream-white, fine crystalline, samples wash white
Limestone: cream-light tan, fine crystalline, oolitic with porrly developed porosity, no shows
Limestone: light tan, fine crystalline, poor to no visible porosity, dense
Limestone: as above, sub shaley
Shale: dark-medium gray
B/KC 4472' (-2485)
Shale: gray-brown
Limestone: cream-gray, fine crystalline, dense, some gray shale
Bit Trip @ 4500'
Trip cavings
Limestone: cream-tan-gray, fine crystalline, dense
Shale: dark gray
Pawnee 4533' (-2546)
Limestone: cream-gray, fine crystalline, dense
Limestone: as above, dense
Limestone: cream-medium tan, fine crystalline, poor to no visible porosity, dense
Cherokee 4568' (-2581)
Shale: dark gray-black
Sandstone: cream-light tan, fine grained, poorly friable, very faint odor, very slight show free oil
Shales: vari-colored, some limestone
Circulated at 4600' Shales: dark-medium grayand some gray, dense limestone
Depth 4595'
Mud Weight 9.3
Funnel Viscosity 52


0 ROP (min/ft) 5
1 Gamma (API) 100
4600
4620
4640
4660
4680
4700
4720
4740
4760
4780
4800
0 ROP (min/ft) 5
1 Gamma (API) 100
Viola 4606' (-2619)
Limestone: cream, fine crystalline, poor visible porosity, abundant cream-white vitreous chert, few pieces weathered with dark edge stain, no show free oil
LImestone: cream, fine crystalline, poor to fair visible porosity, soft, lots of cream white chert, no shows
Limestone: cream-light tan-pale green, dolomitic in part, chert, white-cream, no shows
Cherty limestone: as above
Limestone: cream-pale green, fine crystalline, dense chert, pale green, vitreous, no shows
Cherty limestone: as above, few pieces reddish dense limestone
Chert with some reddish shale, few calcite nodules, very dense
Circulated at 4680' 95% Chert: white-cream, some dolomitic limestone, trace weathered chert with spotted fluorescence, no show free oil
Circulated at 4690' Chert: cream, dolomitic in part, some vugular porosity, trace cream, sucrosic dolomite, fine crystalline, good odor, bright fluorescence with slight show free oil
Dolomitic limestone: cream, fine crystalline, sucrosic, lots of cream-white vitreous chert, opaque, sharp and blocky, very faint odor, spotted fluorescence, no show free oil
Dolomitc limestone: cream-white, finely sucrosic, chert as above, barren
Limestone: pale green-white, fine crystalline, very cherty
Simpson Shale 4754' (-2767)
Few pieces turquoise, blue shale
Shales: Simpson type
Simpson Sand 4784' (-2797)
Sandstone: gray, fine grained, tite, no shows
API Filtrate 8.8
Chloride 6,000
Depth 4768'
Mud Weight 9.3
Funnel Viscosity 47
API Filltrate 9.6
Chloride 8,000


4820
4840
Circulated at 4821' Sandstone: clear to frosted white, fine to medium grained, moderately friable, no shows, lots of turquosie shale and pyrite
Circulated at 4840' Shale: Simpson type

QUALITY WELL SERVICE, INC.

7145

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468
Office 620-727-3410
Fax 620-672-3663
Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-22-19	23	29S	15W	PRATT	KS		

Lease Add. E | Well No. 6 | Location PRATT, KS HWY 54 to 140th Rd 1S to 100th Rd

Contractor WW Drlg Rig #14 | Owner 1E to 130th Rd 1S to J 1/2 E N into

Type Job Surface | To Quality Well Service, 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	12¼	T.D.	267'
Csg.	8⅝ 23#	Depth	264.69
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	20	Shoe Joint	20
Meas Line		Displace	15.5

Charge To Griffin

Street

City State

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

Cement Amount Ordered 275 sx Common 2% GEL 3% CC ½# PS

EQUIPMENT

Pumptrk 8	No.	TJ	
Bulktrk 81	No.	Jake	
Bulktrk	No.		
Pickup	No.		

JOB SERVICES & REMARKS

Ran 6 Jts 8⅝ 23# csg SET 264'
Rig was on Bottom SIRC
Hook up to Csg
Pump 10 Bbls H2O
Mix & Pump 275 sx 2% GEL 3% CC ½# PS
Shut Down Release 8⅝ Wooden Plug
Start Disp
Pump 15.5 Bbls
Shut Valve on Csg 150'
Good Circ thru Job
Circ CMT TO Pit

Thank You
Please Call Again
Todd TJ Jake

X Signature

Common	275
Poz. Mix	
Gel.	5 #
Calcium	500 #
Hulls	
Salt	
Flowseal	137.5 #
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	290
Mileage	25

FLOAT EQUIPMENT

Guide Shoe	8⅝ Head & manifold
Centralizer	8⅝ Wooden Plug
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
LNV	25
SERVICE SUP.	1 EA
Pumptrk Charge	8⅝ / SURFACE
Mileage	50
Tax	
Discount	
Total Charge	

Taylor Printing, Inc.

QUALITY WELL SERVICE, INC.

7153

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468
Office 620-727-3410 **Rich's Cell 620-727-3409**
Fax 620-672-3663 **Brady's Cell 620-727-6964**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-28-19	28	28S	15W	PRATT	KS		

Lease Addie Well No. 6 Location PRATT, Ks W on HWY 54 to 140th Rd

Contractor WW Dzlg Rig #14 Owner 10S to 100th Rd 1E to 130th Rd 1S to T

Type Job 4½ LS To Quality Well Service, Inc. 1/2E into

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	7⅞	T.D.	4344
Csg.	4½ 10.5	Depth	4343
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.		Shoe Joint	21.26
Meas Line		Displace	76.67

Charge To Griffin

Street

City State

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

Cement Amount Ordered 250 sx Pro C 2% Gel 10% SPT 5#/sx Kolseal ¼# CF

EQUIPMENT

Pumptrk 9	No.	TJ	
Bulktrk 15	No.	JAKE	
Bulktrk	No.		
Pickup	No.		

JOB SERVICES & REMARKS

Common	250	
Poz. Mix		
Gel.	470 lbs	
Calcium		
Hulls		
Salt	1377 lbs	
Flowseal	62.5 lbs	
Kol-Seal	1250 lbs	
Mud CLR 48	500 gal	
CFL-117 or CD110 CAF 38	CC-1 6 gal	
Sand		
Handling	282	
Mileage	25	
4½ **FLOAT EQUIPMENT**		
Guide Shoe		
Centralizer	6 EA	
Baskets		
AFU Inserts		
Float Shoe	1 EA	
Latch Down	1 EA	
SERVICE SUP		
LMV	25	
Pumptrk Charge	1.5	
Mileage	50	
Tax		
Discount		
Total Charge		

Rat Hole 30

Mouse Hole 20

Centralizers 1-2-3-4-5-6

Baskets

D/V or Port Collar

Ran 117 Jts 4½ 10.5# CSG SET @ 4343

CSG ON BOTTOM TAG HOOK UP TO CSG

BREAK CIRC W/RIG DROP BALL & CIRC W/RIG

START PUMPING 5 BBLS H2O 12 BBLS MF 5 BBLS H2O

START PLUG R.M HOLE 50SX

START MIX & CSG @ 14.8#/GAL

SHUT DOWN WASH UP TRK RELEASE LD PLUG

START DISP 2% KCL

Plug at LIFT PSI 600#

76.67 out LAND PLUG 1000#

PSI UP 1500#

RELEASE HELD ¼ BBL BACK

GOOD CIRC THRU JOB

THANK YOU

PLEASE CALL AGAIN

TODD TJ JAKE

X Signature

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Griffin, Charles N.**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

Addie #6

28-29s-15w Pratt,KS

Start Date: 2019.06.26 @ 18:19:58
End Date: 2019.06.27 @ 02:23:43
Job Ticket #: 64928 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.06.27 @ 16:29:56

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Griffin, Charles N.

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

28-29s-15w Pratt,KS

Addie #6

Job Ticket: 64928 **DST#: 1**

Test Start: 2019.06.26 @ 18:19:58

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:53:13
Time Test Ended: 02:23:43

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 68

Interval: 4660.00 ft (KB) To 4690.00 ft (KB) (TVD)
Total Depth: 4690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

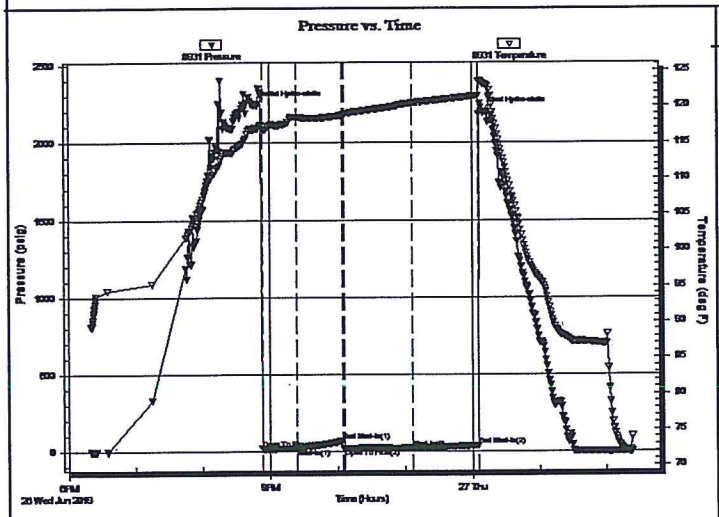
Reference Elevations: 1987.00 ft (KB)
1977.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8931 **Inside**

Press@RunDepth: 22.15 psig @ 4661.00 ft (KB)
Start Date: 2019.06.26 End Date: 2019.06.27
Start Time: 18:20:03 End Time: 02:23:42

Capacity: 8000.00 psig
Last Calib.: 2019.06.27
Time On Btm: 2019.06.26 @ 20:48:13
Time Off Btm: 2019.06.27 @ 00:09:13

TEST COMMENT: IF: Weak Surface Blow . Built to .10". Died off.
ISI: No Blow .
FF: No Blow .
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.43	116.91	Initial Hydro-static
5	17.81	116.80	Open To Flow (1)
36	21.72	118.42	Shut-In(1)
76	67.64	118.68	End Shut-In(1)
78	21.00	118.80	Open To Flow (2)
139	22.15	120.39	Shut-In(2)
198	38.60	121.42	End Shut-In(2)
201	2203.86	123.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	DM 100% m	0.08

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Griffin, Charles N.

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

28-29s-15w Pratt,KS

Addie #6

Job Ticket: 64928 **DST#: 1**

Test Start: 2019.06.26 @ 18:19:58

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:53:13
Time Test Ended: 02:23:43

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 68

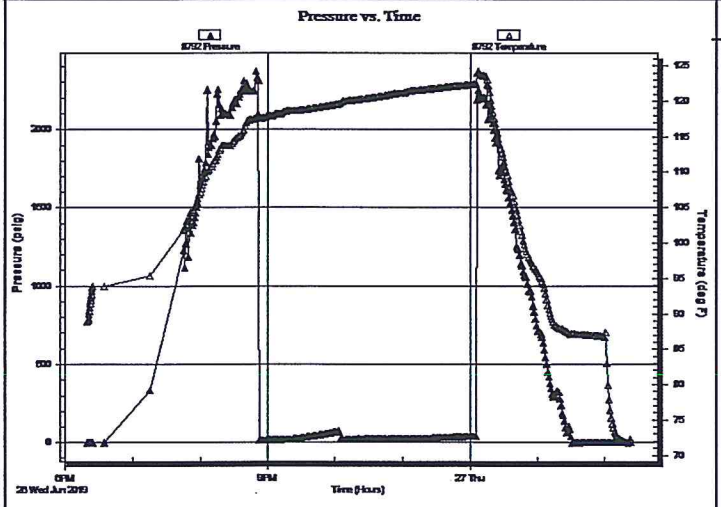
Interval: 4660.00 ft (KB) To 4690.00 ft (KB) (TVD)
Total Depth: 4690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1987.00 ft (KB)
1977.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8792 **Outside**
Press@RunDepth: psig @ 4661.00 ft (KB)
Start Date: 2019.06.26 End Date: 2019.06.27
Start Time: 18:19:48 End Time: 02:23:27

Capacity: 8000.00 psig
Last Calib.: 2019.06.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Surface Blow . Built to .10". Died off.
ISI: No Blow .
FF: No Blow .
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	DM 100% m	0.08

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Griffin, Charles N.

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

28-29s-15w Pratt,KS

Addie #6

Job Ticket: 64928 **DST#: 1**

Test Start: 2019.06.26 @ 18:19:58

Tool Information

Drill Pipe:	Length:	4539.00 ft	Diameter:	3.80 inches	Volume:	63.67 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	116.00 ft	Diameter:	2.80 inches	Volume:	0.88 bbl	
					Total Volume:	64.55 bbl	

Drill Pipe Above KB:	15.00 ft
Depth to Top Packer:	4660.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	30.00 ft
Tool Length:	50.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2100.00 lb
Weight set on Packer:		24000.00 lb
Weight to Pull Loose:		70000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	67000.00 lb
	Final	66000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4641.00		
Shut In Tool	5.00			4646.00		
Hydraulic tool	5.00			4651.00		
Packer	4.00			4655.00	20.00	Bottom Of Top Packer
Packer	5.00			4660.00		
Stubb	1.00			4661.00		
Recorder	0.00	8931	Inside	4661.00		
Recorder	0.00	8792	Outside	4661.00		
Perforations	26.00			4687.00		
Bullnose	3.00			4690.00	30.00	Bottom Packers & Anchor
Total Tool Length:	**50.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Griffin, Charles N.

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

28-29s-15w Pratt,KS

Addie #6

Job Ticket: 64928 **DST#: 1**

Test Start: 2019.06.26 @ 18:19:58

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	6000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	6000.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	DM 100% m	0.076

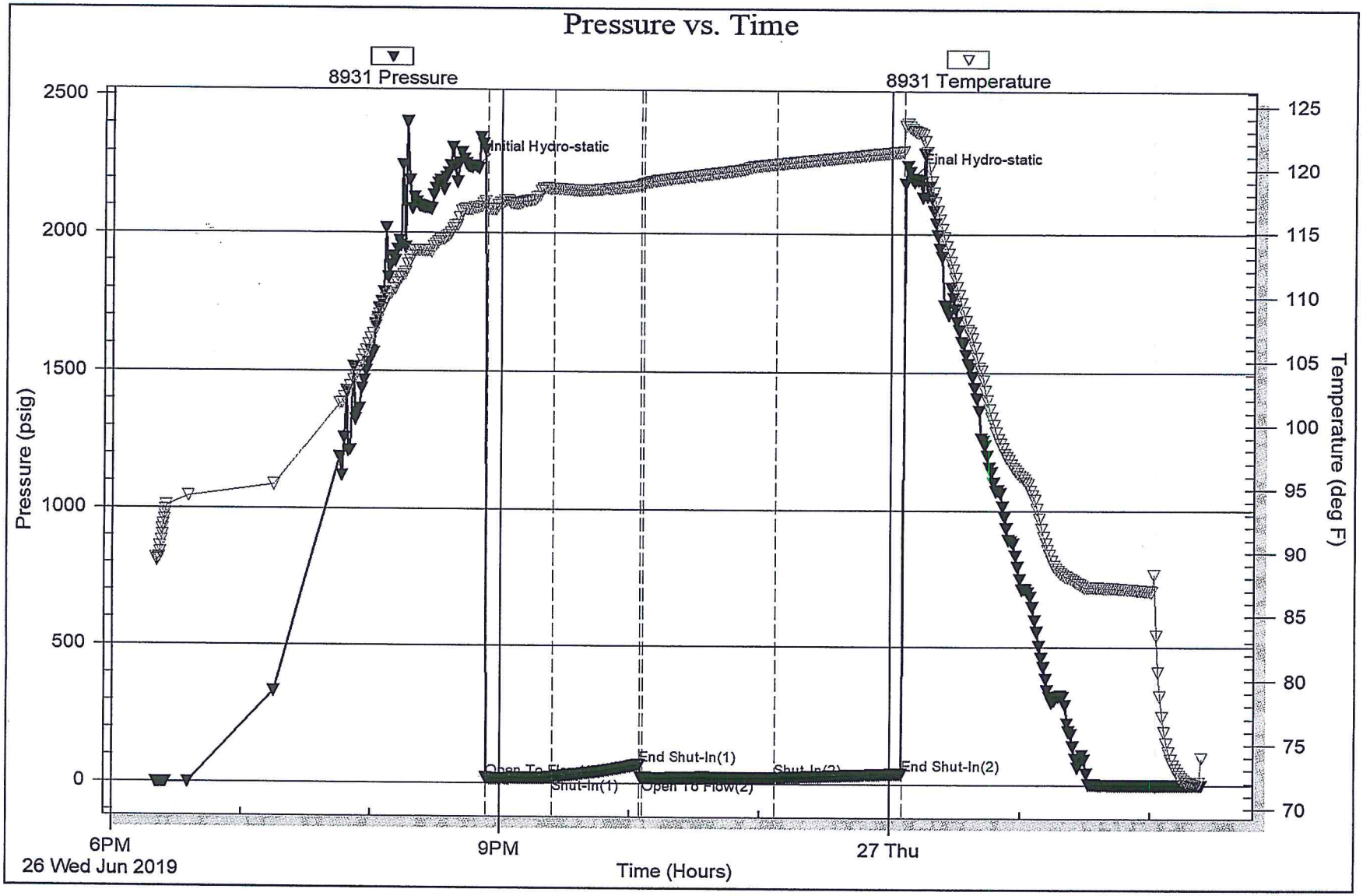
Total Length: 10.00 ft Total Volume: 0.076 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

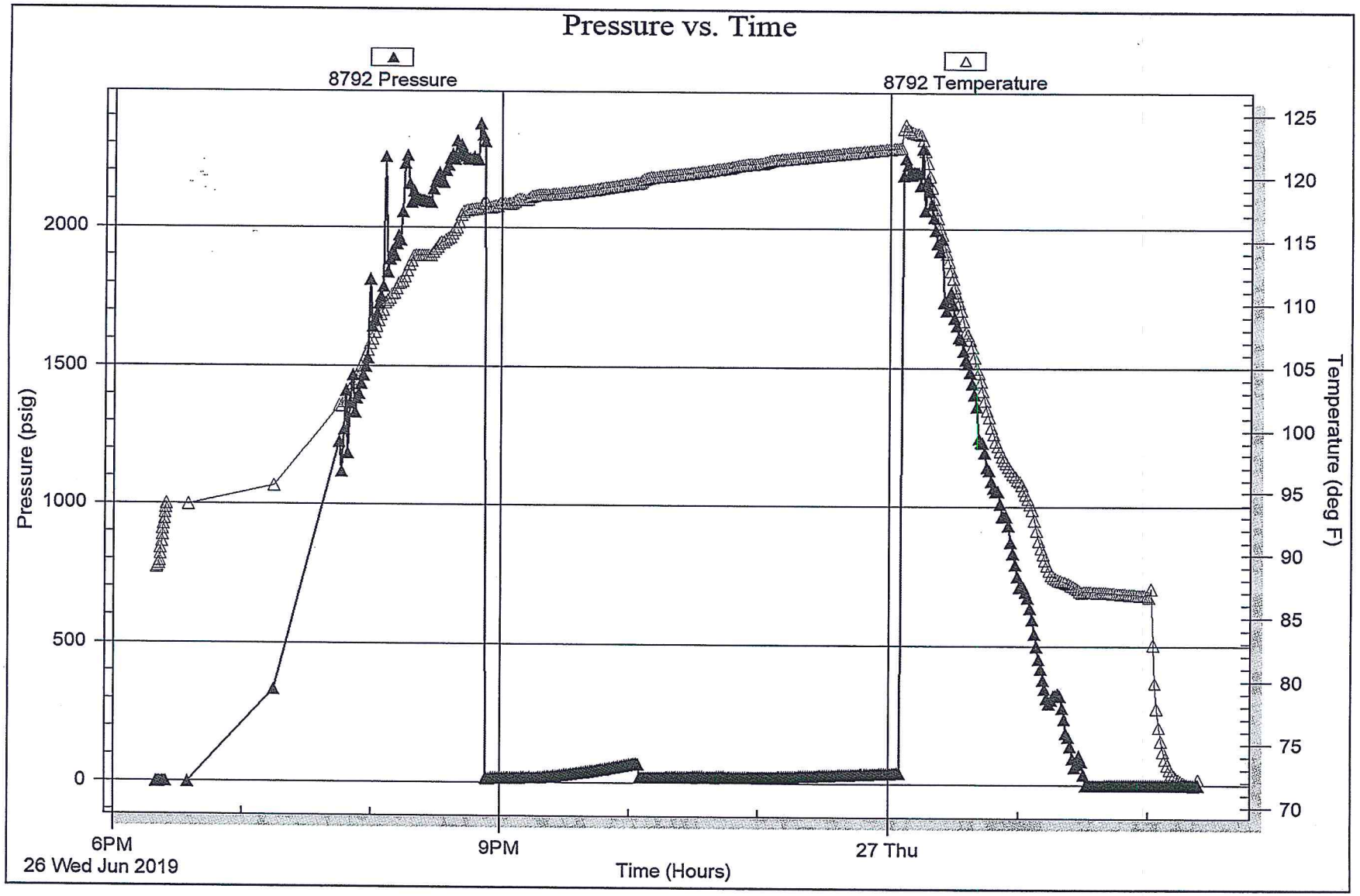
Recovery Comments: 10 FT Drilling Mud

Serial #: 8931 Inside Griffin, Charles N. Addie #6 DST Test Number: 1



Trilobite Testing, Inc · Ref. No: 64928 Printed: 2019.06.27 @ 16:29:57

Serial #: 8792 **Outside** Griffin, Charles N. Addie #6 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64928 Printed: 2019.06.27 @ 16:29:57

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64928

Well Name & No. Addie #1e Test No. 1 Date 6/26/19
Company Griffen, Charles N. Elevation 1987 KB 1977 GL
Address P.O. Box 347 Pratt, KS. 67124
Co. Rep / Geo. Bruce Reed Rig WW14
Location: Sec. 28 Twp 29S Rge. 15W Co. Pratt State KS.

Interval Tested 4660 - 4690 Zone Tested Viola
Anchor Length 30' Drill Pipe Run 4539 Mud Wt. 9.3#
Top Packer Depth 4655 Drill Collars Run 116 Vis 52
Bottom Packer Depth 4660 Wt. Pipe Run 0 WL 8.8
Total Depth 4690 Chlorides 6000 ppm System LCM 2½#

Blow Description IF: Weak Surface blow. Built to .10". Died out.
ISI: No blow.
FF: No blow.
FSI: No blow.

Rec 10	Feet of Drlg Mud	%gas	%oil	%water	100 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' Fluid BHT ____ Gravity N/A API RW N/A @ ____ °F Chlorides 6000 ppm

(A) Initial Hydrostatic 2242	☑ Test 1300	T-On Location 1738	
(B) First Initial Flow 18	☐ Jars	T-Started 1819	
(C) First Final Flow 22	☐ Safety Joint	T-Open 2053	
(D) Initial Shut-In 68	☐ Circ Sub	T-Pulled 0010	
(E) Second Initial Flow 21	☐ Hourly Standby	T-Out 0223	
(F) Second Final Flow 22	☑ Mileage (58) XZ 52+52	Comments 6/27/19 - 16:45 on location P.U.T.T.	
(G) Final Shut-In 39	☐ Sampler		
(H) Final Hydrostatic 2204	☐ Straddle	☐ EM Tool	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open 30	☐ Extra Packer	☐ Ruined Packer	
Initial Shut-In 45	☐ Extra Recorder	☐ Extra Copies	
Final Flow 60	☐ Day Standby	Sub Total 0	
Final Shut-In 60	☐ Accessibility	Total 1404	
	Sub Total 1404	MP/DST Disc't	

Approved By [signature] Our Representative [signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of 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 equipment, or its statements or opinion concerning the results 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.