

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 # \_\_\_\_\_

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

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 #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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
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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				

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: <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

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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ARIA 1
Doc ID	1472845

All Electric Logs Run

Compensated Density/Neutron PE Log
Micro Log
Sonic Log
Dual Induction

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ARIA 1
Doc ID	1472845

Tops

Name	Top	Datum
Heebner	3884	-1885
Brown Lime	4058	-2059
Lansing	4075	-2076
Stark	4339	-2340
Base KC	4461	-2462
Pawnee	4517	-2518
Cherokee	4556	-2557
Viola	4584	-2585
Simpson	4739	-2740
Simpson Sand	4773	-2774



**OPERATOR**

Company: Charles N. Griffin  
 Address: PO Box 347  
 Pratt, KS 67124

Contact Geologist:  
 Contact Phone Nbr:

Well Name: #1 Aria  
 Location: Section 34-29S-15W  
 API: 15-151-22497  
 Pool:  
 State: Kansas

Field: Wildcat  
 Country: USA

Scale 1:240 Imperial

Well Name: #1 Aria  
 Surface Location: Section 34-29S-15W  
 Bottom Location:  
 API: 15-151-22497  
 License Number:  
 Spud Date: 7/30/2019  
 Region: Pratt County  
 Drilling Completed: 8/7/2019  
 Surface Coordinates: 660' FSL & 1650' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1987.00ft  
 K.B. Elevation: 1999.00ft  
 Logged Interval: 3800.00ft  
 Total Depth: 4825.00ft  
 Formation:  
 Drilling Fluid Type: Chemical (MudCo)

Time: 9:30 PM  
 Time: 7:30 AM  
 To: 4825.00ft

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 Latitude:  
 N/S Co-ord: 660' FSL  
 E/W Co-ord: 1650' 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: Fossil Drilling  
 Rig #: 3  
 Rig Type: mud rotary  
 Spud Date: 7/30/2019  
 TD Date: 8/7/2019  
 Rig Release: 8/8/2019

Time: 9:30 PM  
 Time: 7:30 AM  
 Time: 12:00 AM

**ELEVATIONS**

K.B. Elevation: 1999.00ft  
 K.B. to Ground: 12.00ft

Ground Elevation: 1987.00ft

**NOTES**

Surface Casing: 8-5/8" at 271'  
 Production Casing: D&A

Daily Penetration: 7/30/19 Spud @ 9:30 PM  
 7/31/19 273'  
 8/01/19 1380'  
 8/02/19 2647'  
 8/03/19 3544'  
 8/04/19 4000'  
 8/05/19 4370'  
 8/06/19 4642'  
 8/07/19 4802' RTD @ 7:30AM  
 8/08/19 4825'

**DRILL STEM TEST**

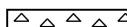





DTS#1 4670' to 4696', Viola. No blow on either of the openings. Recovered: 5' DM  
 IFP: 30" 19-20 psi, ISIP: 30" 38 psi, FFP: 30" 1919 psi, FSIP: 30" 29 psi

**FORMATION TOPS**

Formation	Sample Top	Datum	Log Top	Datum	Comparison*
Heebner	3884'	-1885	3880'	-1881	+4
Brown Lime	4058'	-2059	4054'	-2055	flat
Lansing	4075'	-2076	4075'	-2076	-7
Stark	4339'	-2340	4331'	-2332	+3
Base KC	4461'	-2462	4455'	-2456	+5
Pawnee	4517'	-2518	4516'	-2517	+5
Cherokee	4556'	-2557	4555'	-2556	+3
Viola	4584'	-2585	4578'	-2579	flat
Simpson	4739'	-2740	4736'	-2737	+3
Simpson Sand	4773'	-2774	4770'	-2771	

\*Pickrell Dilling Company, Inc. #1 Gillam B, C SW SW, Section 34-29S-15W, Pratt County, Kansas

**ROCK TYPES**





 Cht  
 Dolprim  
 Lmst fw7>  
 shale, gry  
 Carbon Sh  
 Ss

**OTHER SYMBOLS**



**INTERVALS**

 Core  
 DST

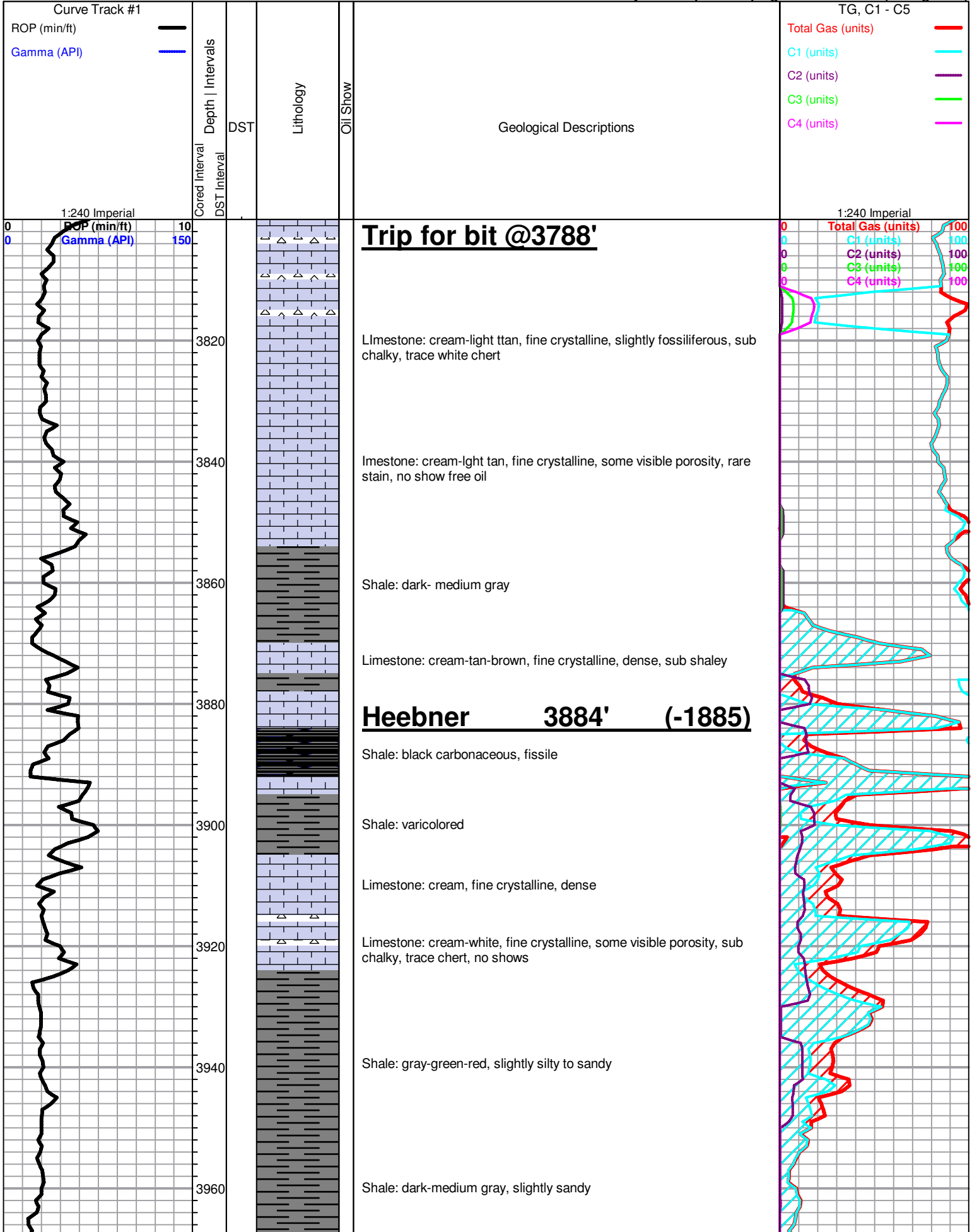
**Oil Show**

 Good Show  
 Fair Show  
 Poor Show  
 Spotted or Trace

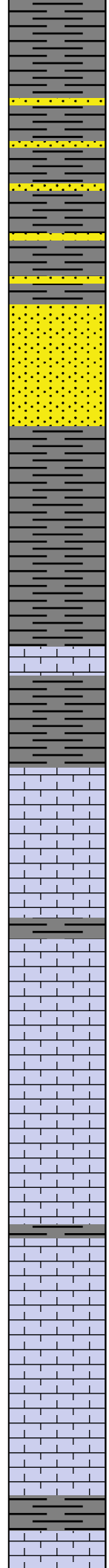
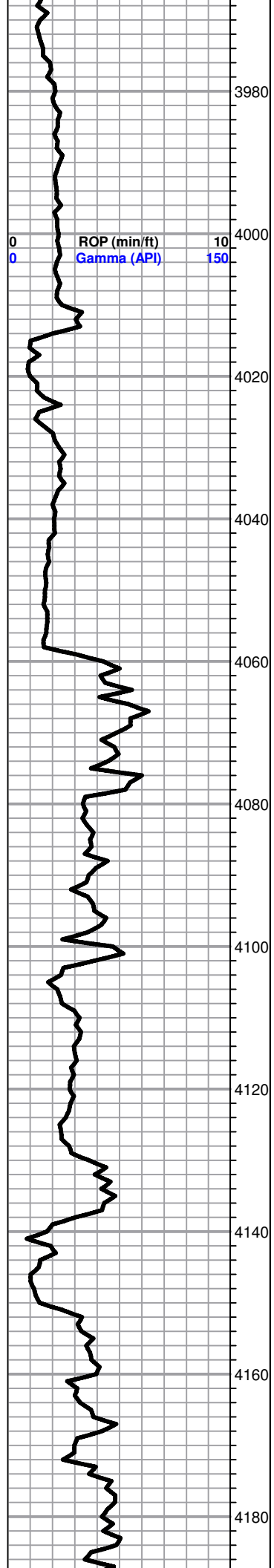
**DST**

 DST Int  
 DST alt  
 Core  
 tail pipe

- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- \* Gas







Shale: as above, some light-gray-cream sandstone

Shale and sandstone: as above

Sandstone: cream-fine grained

Shale: light gray, silty to sandy

**Brown Lime 4058' (-2059)**

Limestone: tan-brown, fine crystalline, dense

Shale: medium-dark gray, hard

**Lansing 4075' (-2059)**

Limestone: tan-cream-light brown, mostly fossiliferous, some pieces fine crystalline, poor visible porosity, dense, no shows

Shale: gray

Limestone: cream-light tan-white, fossiliferous, some visible porosity, questionable odor, no show free oil

Limestone: cream-white-brown, fine crystalline, poor visible porosity, dense

Limestone: as above, some chalky material

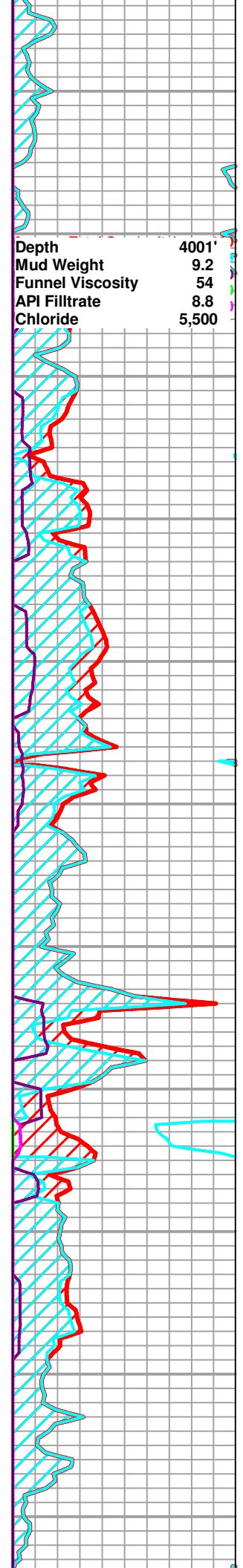
Shale: gray

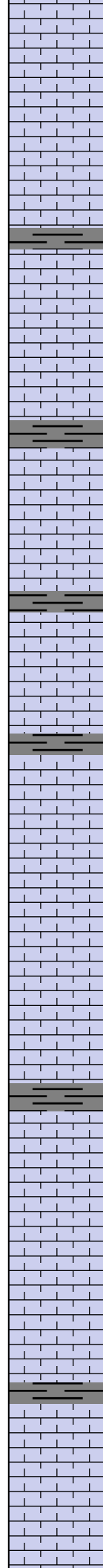
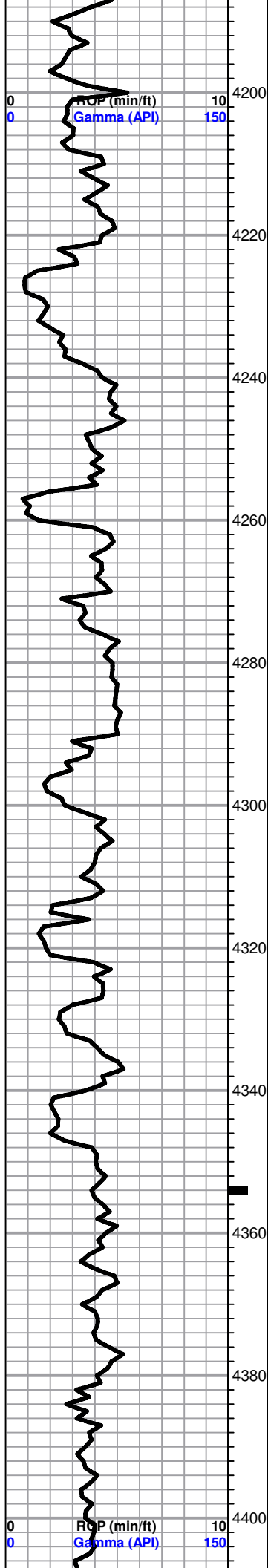
Limestone: light tan, fine crystalline, rare visible porosity, no shows

Limestone: medium-dark tan, fine crystalline, slightly fossiliferous, poor to no visible porosity

Shale: medium gray

Depth	4001'
Mud Weight	9.2
Funnel Viscosity	54
API Filtrate	8.8
Chloride	5,500





Limestone: cream-light tan, fine crystalline, very slightly fossiliferous, poor to no visible porosity, dense

Limestone: cream-medium tan, highly fossiliferous

Limestone: as above

Shale: gray

Limestone: cream-tan-white, fine crystalline, very chalky

Limestone: cream-white-tan, dense

Shale: dark-medium gray

Limestone: cream-light tan, fine crystalline, few pieces oolitic, poorly developed porosity, no shows

Shale: gray

Limestone: cream-white-light tan, fine crystalline to slightly fossiliferous, dense

Shale: gray

Limestone: cream-white, fine crystalline, chalky

Limestone: cream, fine crystalline, rare visible porosity, chalky

**Stark 4339' (-2340)**

Shale: gray-black

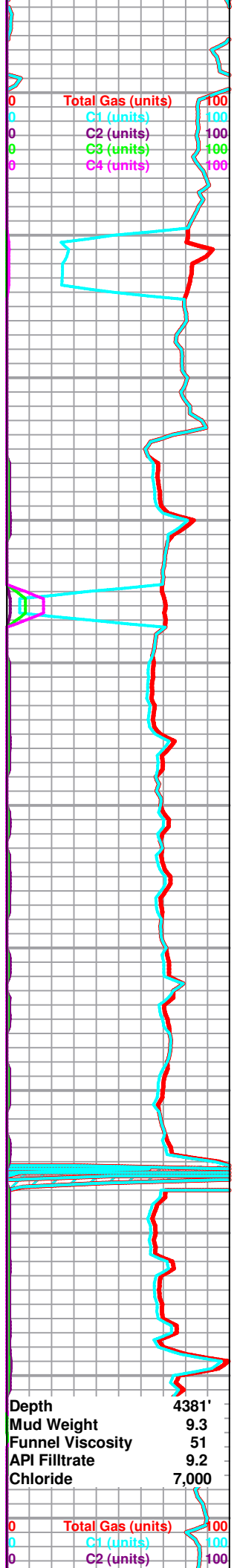
Circulated at 4354' Limestone: cream-white-light tan, fine crystalline, few pieces fossiliferous, sub chalky, slight odor in fresh, no show free oil

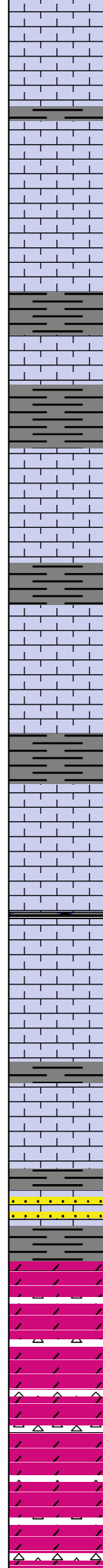
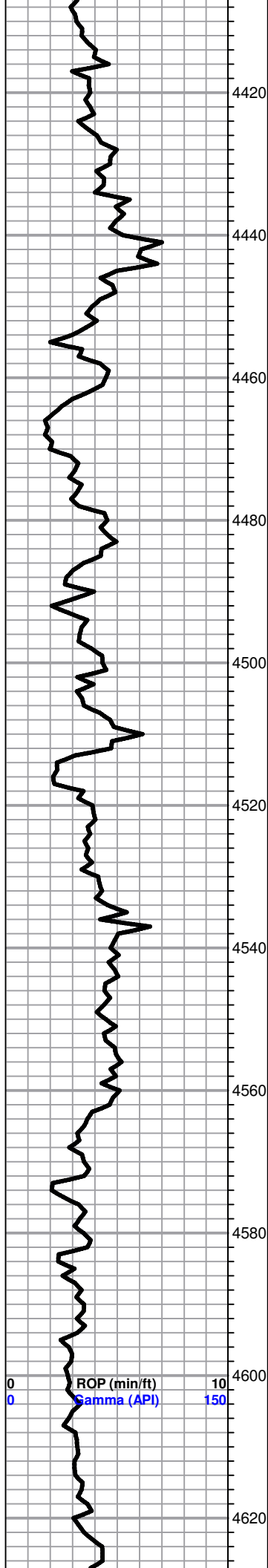
Limestone: cream-white, fine to slightly micro-crystalline, dense

Limestone: cream-light brown-tan, fine crystalline, no visible porosity, dense

Shale: gray

Limestone: cream-light tan, fine to micro-crystalline, no visible porosity, dense





Limestone: as above

Shale: gray

Limestone: cream-tan-brown-gray, fine crystalline to slightly fossiliferous, poor to no visible porosity, dense

**Bit trip @ 4444'**

Shale: gray-red-brown

**B/KC 4461' (-2462)**

Shale: dark-medium gray-green, soft

Limestone: cream-light tan-gray, fine crystalline to fossiliferous, poor visible porosity

Shale: gray

Limestone: cream-light tan-white, fine crystalline, sub chalky

Shale: dark-medium gray-green

**Pawnee 4517' (-2518)**

Limestone: cream-gray, fine crystalline to slightly medium crystalline, dense, some mineral fluorescence, no shows

Shale: black

Limestone: cream, fine crystalline, dense, no shows

**Cherokee 4556' (-2557)**

Shale: dark gray-black

Shale: gray-green-brown with cream limestone, few pieces fine grained sandstone, no shows

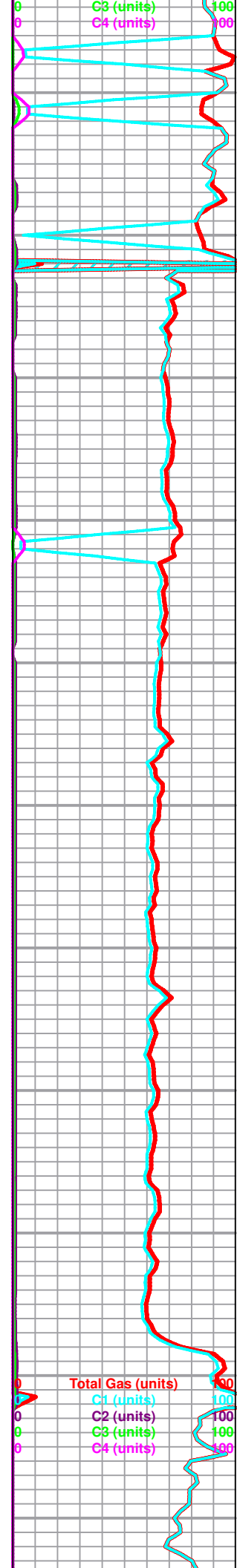
**Viola 4584' (-2585)**

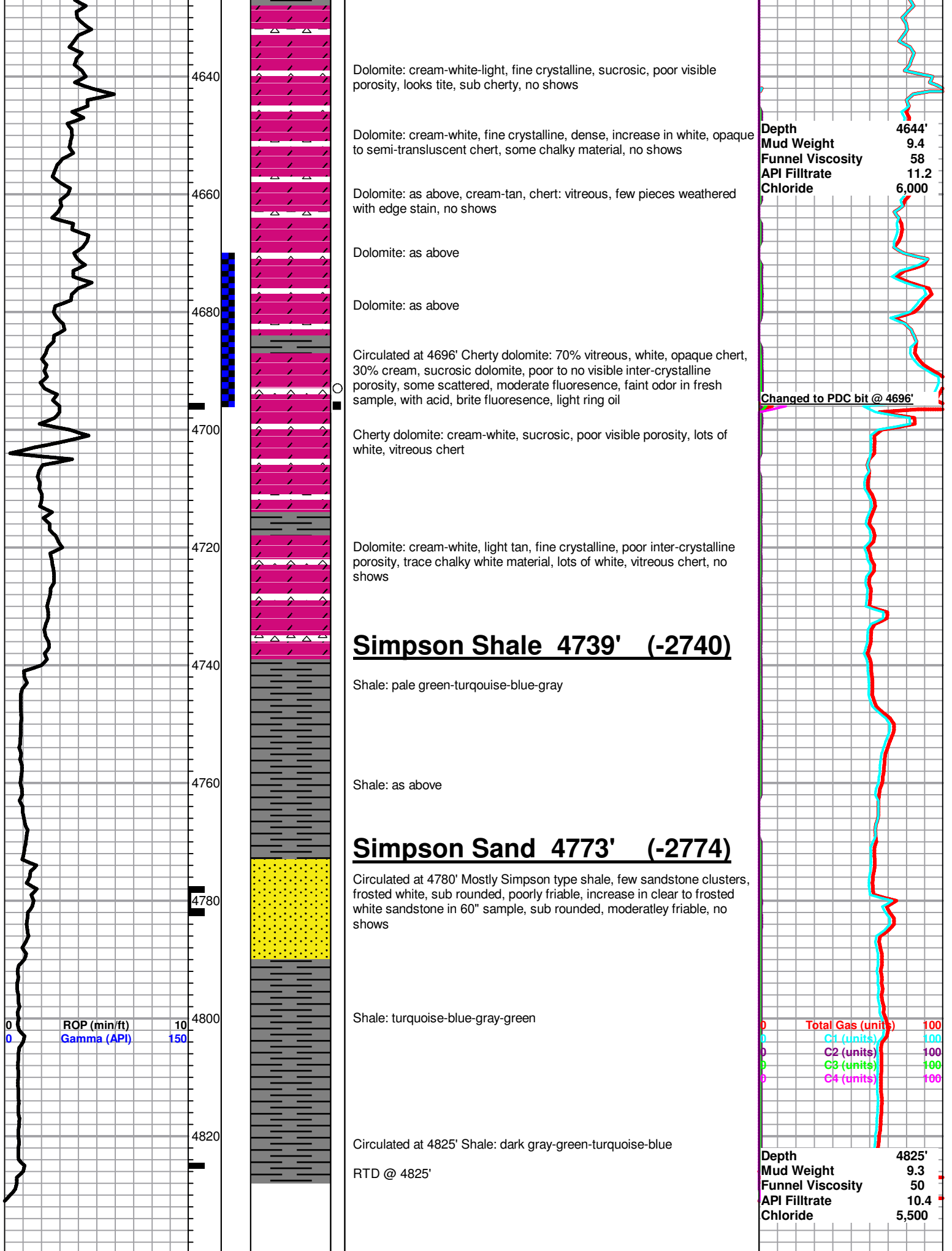
Shale: varicolored, some orange-tan, vitreous chert, few pieces tan-brown sucrosic dolomite

Cherty dolomite: tan, sucrosic, tite, cherts pink-orange-cream, mostly vitreous with some weathered piece with edge stain, cherts more white, semi-transluscent, some chalky material

Cherty dolomite: cream-white, vitreous, few weathered pieces with vugular porosity, some light-tan, sucrosic dolomite, tite

Cherty dolomite: as above, cream-white, fine crystalline, sucrosic, lots of vitreous chert, minor and weathered pieces with black gilsonite





4640  
4660  
4680  
4700  
4720  
4740  
4760  
4780  
4800  
4820

Dolomite: cream-white-light, fine crystalline, sucrosic, poor visible porosity, looks tite, sub cherty, no shows

Dolomite: cream-white, fine crystalline, dense, increase in white, opaque to semi-transluscent chert, some chalky material, no shows

Dolomite: as above, cream-tan, chert: vitreous, few pieces weathered with edge stain, no shows

Dolomite: as above

Dolomite: as above

Circulated at 4696' Cherty dolomite: 70% vitreous, white, opaque chert, 30% cream, sucrosic dolomite, poor to no visible inter-crystalline porosity, some scattered, moderate fluorensce, faint odor in fresh sample, with acid, brite fluorensce, light ring oil

Cherty dolomite: cream-white, sucrosic, poor visible porosity, lots of white, vitreous chert

Dolomite: cream-white, light tan, fine crystalline, poor inter-crystalline porosity, trace chalky white material, lots of white, vitreous chert, no shows

**Simpson Shale 4739' (-2740)**

Shale: pale green-turquoise-blue-gray

Shale: as above

**Simpson Sand 4773' (-2774)**

Circulated at 4780' Mostly Simpson type shale, few sandstone clusters, frosted white, sub rounded, poorly friable, increase in clear to frosted white sandstone in 60" sample, sub rounded, moderatley friable, no shows

Shale: turquoise-blue-gray-green

Circulated at 4825' Shale: dark gray-green-turquoise-blue

RTD @ 4825'

Depth 4644'  
Mud Weight 9.4  
Funnel Viscosity 58  
API Filtrate 11.2  
Chloride 6,000

Changed to PDC bit @ 4696'

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

Depth 4825'  
Mud Weight 9.3  
Funnel Viscosity 50  
API Filtrate 10.4  
Chloride 5,500

ROP (min/ft) 10  
Gamma (API) 150

# QUALITY WELL SERVICE, INC.

7178

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

*Handwritten:* JMW C-2096

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-31-19	34	29S	15W	PRATT	Ks		
Lease AREA	Well No. #1		Location PRATT, KS W OF HWY 54 to 140 S to 140				
Contractor FOSSILL DRUG DIG #3	Owner Z. Z. E. S into		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.				
Type Job 85/8	Hole Size 12 1/4		T.D. 273	Charge To Griffith			
Csg. 85/8 23"	Depth 271		Street				
Tbg. Size	Depth		City State				
Tool	Depth		City State				
Cement Left in Csg. 20'	Shoe Joint 20'		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace 16 Bbls		Cement Amount Ordered 275cc Common 2 1/2 CL 3 1/2 CL				
<b>EQUIPMENT</b>			1/2" PS USED 250 cc				
Pumptrk 8 No.	TI		Common 250				
Bulktrk 15 No.	JAKE		Poz. Mix				
Bulktrk No.			Gel. 470 #				
Pickup No.			Calcium 705 #				
<b>JOB SERVICES &amp; REMARKS</b>			Hulls				
Rat Hole			Salt				
Mouse Hole			Flowseal 125 #				
Centralizers			Kol-Seal				
Baskets			Mud CLR 48				
D/V or Port Collar			CFL-117 or CD110 CAF 38				
Run 6 # 85/8 23" CSG SET @ 271'			Sand				
CSG ON BOTTOM HOOK up to CSG &			Handling 269				
BREAK circ w/ris			Mileage 25 / 6725				
START Pumping 5 Bbls HR			<b>85/8 FLOAT EQUIPMENT</b>				
STAG mix! Pump 250cc Common			Guide Shoe				
2% FEL 3% CL 1/2" PS @ 14.8 #/mL			Centralizer 70				
SHUT DOWN RELEASE 85/8 WOODEN PLUG			Baskets				
START DISP			AFU Inserts				
PLUG DOWN 200'			Float Shoe 1 EA HEAD manifold				
CLOSE VALVE on CSG			Latch Down 1 EA 85/8 WOODEN PLUG				
GOOD circ thru JOB			SERVICE Sup				
Circ OUT TO Pit			LMV 25'				
Thank you			Pumptrk Charge SURFACE				
PLEASE CALL AGAIN			Mileage 50				
TOOD IS JAKE							
Signature <i>Richard A. Brady</i>			Tax				
			Discount				
			Total Charge				



## DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347  
Pratt, KS 67124

ATTN: Bruce Reed

**Aria #1**

**34-29S-15W Pratt,KS**

Start Date: 2019.08.06 @ 17:10:00

End Date: 2019.08.06 @ 23:26:02

Job Ticket #: 65890                      DST #: 1

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

Printed: 2019.08.07 @ 11:24:20

Charles N Griffin    34-29S-15W Pratt,KS    Aria #1    DST # 1    Viola    2019.08.06



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Charles N Griffin

34-29S-15W Pratt, KS

PO Box 347  
Pratt, KS 67124

Aria #1

Job Ticket: 65890

DST#: 1

ATTN: Bruce Reed

Test Start: 2019.08.06 @ 17:10:00

### GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:43:47

Time Test Ended: 23:26:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4670.00 ft (KB) To 4696.00 ft (KB) (TVD)

Total Depth: 4696.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1999.00 ft (KB)

1989.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8672

Inside

Press@RunDepth: 19.39 psig @ 4671.00 ft (KB)

Capacity: psig

Start Date: 2019.08.06

End Date: 2019.08.06

Last Calib.: 2019.08.06

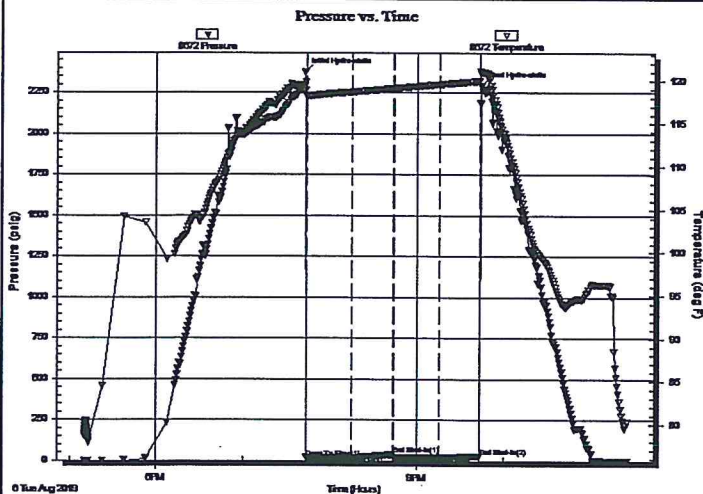
Start Time: 17:10:01

End Time: 23:26:02

Time On Btm: 2019.08.06 @ 19:42:47

Time Off Btm: 2019.08.06 @ 21:44:17

TEST COMMENT: IF: No Blow  
ISI: No Blow Back  
FF: No Blow  
FSI: No Blow Back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2375.74	118.85	Initial Hydro-static
1	18.64	118.02	Open To Flow (1)
33	19.61	118.67	Shut-In(1)
61	37.96	119.08	End Shut-In(1)
62	19.32	119.09	Open To Flow (2)
93	19.39	119.57	Shut-In(2)
121	28.64	120.02	End Shut-In(2)
122	2291.57	120.89	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

### Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

34-29S-15W Pratt,KS

PO Box 347  
Pratt, KS 67124

Aria #1

Job Ticket: 65890

DST#: 1

ATTN: Bruce Reed

Test Start: 2019.08.06 @ 17:10:00

### Tool Information

Drill Pipe:	Length: 4656.00 ft	Diameter: 3.80 inches	Volume: 65.31 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.31 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4670.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4649.00	
Hydraulic tool	5.00			4654.00	
Jars	5.00			4659.00	
Safety Joint	2.00			4661.00	
Packer	5.00			4666.00	26.00 Bottom Of Top Packer
Packer	4.00			4670.00	
Stubb	1.00			4671.00	
Recorder	0.00	8672	Inside	4671.00	
Recorder	0.00	6751	Outside	4671.00	
Perforations	22.00			4693.00	
Bullnose	3.00			4696.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charles N Griffin

**34-29S-15W Pratt,KS**

PO Box 347  
Pratt, KS 67124

**Aria #1**

Job Ticket: 65890

**DST#: 1**

ATTN: Bruce Reed

Test Start: 2019.08.06 @ 17:10:00

### 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:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.02 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 8672

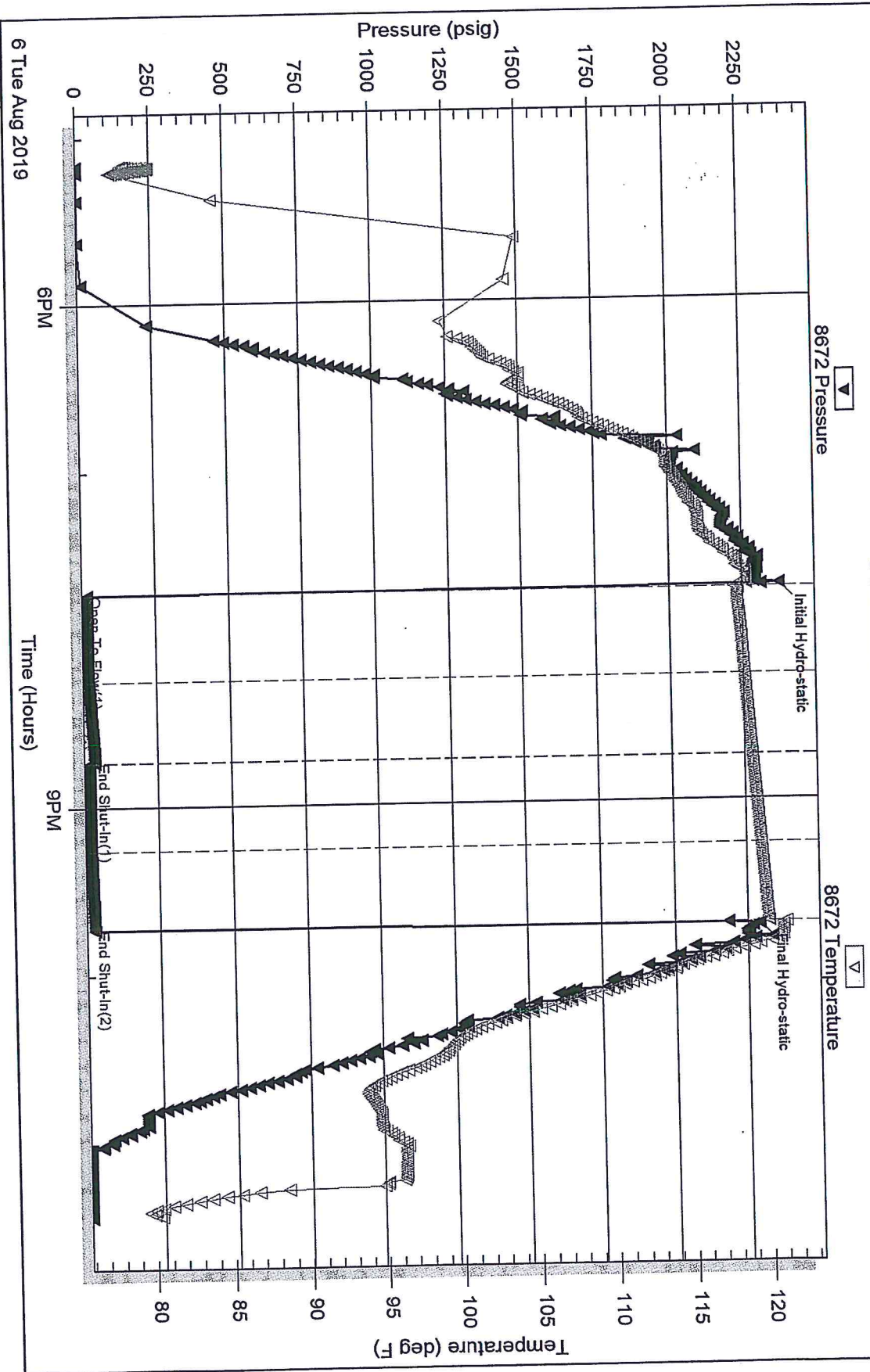
Inside

Charles N Griffin

Area #1

DST Test Number: 1

### Pressure vs. Time

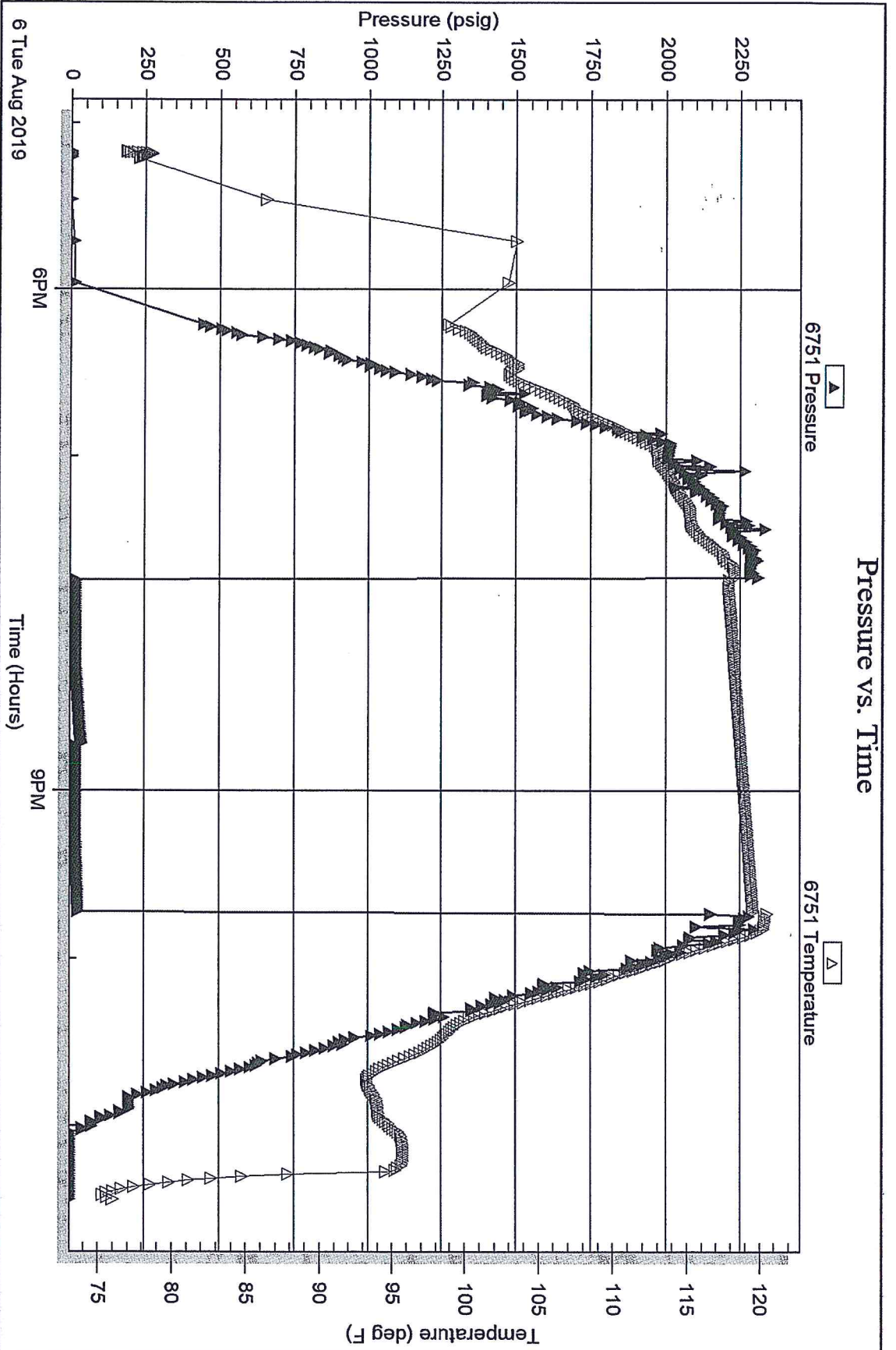


Serial #: 6751

Outside Charles N Griffin

Aria #1

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 65890

NO.

Well Name & No. Aria 1 Test No. 1 Date 08/06/19  
 Company Charles N. Griffin Elevation 1999 KB 1989 GL  
 Address PO BOX 347 Pratt, KS 67124  
 Co. Rep / Geo. Bruce Reed Rig Fossil 3  
 Location: Sec. 34 Twp 29S Rge. 15W Co. Pratt State KS

Interval Tested 4670 - 4696 Zone Tested Viola  
 Anchor Length 26 Drill Pipe Run 4656 Mud Wt. 9.4  
 Top Packer Depth 4665 Drill Collars Run 0 Vis 58  
 Bottom Packer Depth 4670 Wt. Pipe Run 0 WL 11.2  
 Total Depth 4696 Chlorides 6000 ppm System LCM 3

Blow Description IK: NO BLOW  
ISI: NO BLOW BACK  
FF: NO BLOW  
FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

Rec Total 5 BHT 121 Gravity NIC API RW NIC @ NIC F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2376</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>16:30</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:10</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:43</u>
(D) Initial Shut-In <u>38</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>21:43</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:26</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>(70)</u> <u>140</u>	Comments <u>loaded tools 8/7 8:00</u>
(G) Final Shut-In <u>29</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2292</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1765</u>	Total <u>1765</u>
		MP/DST Disc't

Approved By Bruce Reed Our Representative [Signature]

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