

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. 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	Rama Operating Co., Inc.
Well Name	WALLACE 11-29
Doc ID	1469153

All Electric Logs Run

Dual Ind
Comp Neutron
Density
Micro

QUALITY WELL SERVICE, INC.

7187

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	7-27-19	Sec.	29	Twp.	19	Range	9	County	Rice	State	KS	On Location		Finish		
Lease	Wallance	Well No.	11-29			Location	1.5 North of Chase East into									
Contractor	STEELING OIL RIG #4							Owner	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	Surface							Charge To	Pama OPERATING Co. Inc.							
Hole Size	12 1/4		T.D.	315			Depth	311.								
Csg.	8 5/8		Depth													
Tbg. Size			Depth													
Tool			Depth													
Cement Left in Csg.			Shoe Joint	42.50			The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace	18.2			Cement Amount Ordered	210 sx 60/40 2% Gel								
EQUIPMENT							3% cc 1/2 lb cello flake									
Pumptrk	8	No.					Common	126								
Bulktrk	10	No.					Poz. Mix	84								
Bulktrk		No.					Gel.	362 #								
Pickup		No.					Calcium	543 #								
JOB SERVICES & REMARKS							Hulls									
Rat Hole							Salt									
Mouse Hole							Flowseal 97 #									
Centralizers							Kol-Seal									
Baskets							Mud CLR 48									
D/V or Port Collar							CFL-117 or CD110 CAF 38									
Run 7jts 8 5/8 csg 23#							Sand									
Break circulation with Rig							Handling 230									
Pumped 10bbls H 2/0. mixed 210 sx							Mileage 35									
60/40 2% Gel 3% cc 1/2 lb cello flake.							FLOAT EQUIPMENT									
Shut down released plug displaced							Guide Shoe									
18.2 bbls H 2/0. Shut in 200psi							Centralizer									
cement circulated to surface.							Baskets									
							AFU Inserts									
							Float Shoe									
							Catch Down 8 5/8 Wooden Plug									
							LMV 35									
							Service Supervisor									
							Pumptrk Charge Surface									
							Mileage 70									
												Tax				
												Discount				
												Total Charge				
X Signature <i>Harry A. Salas</i>																

QUALITY WELL SERVICE, INC.

7191

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	8-3-19	Sec.	29	Twp.	19S	Range	9W	County	RICE	State	KS	On Location		Finish	
Lease	WALLACE	Well No.	11-29			Location						CHASE R3 1 N E. Sinto			
Contractor	STERLING RIG #4				Owner		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	5 1/2 L.S.				T.D.		3750								
Hole Size	7 7/8				Depth		3333								
Csg.	5 1/2 14"				Depth		Charge To RAMA OPERATING CO. INC.								
Tbg. Size					Depth		Street								
Tool					Depth		City State								
Cement Left in Csg.	32				Shoe Joint		32								
Meas Line					Displace		80.54								
EQUIPMENT							10% SALT 5 1/2 ROSEAL 1/4" SCS PS								
Pumptrk	9	No.					Common 175 SX								
Bulktrk	10	No.					Poz. Mix								
Bulktrk		No.					Gel. 330#								
Pickup		No.					Calcium								
JOB SERVICES & REMARKS							Hulls								
Rat Hole	30				Salt		966#								
Mouse Hole	20				Flowseal		44#								
Centralizers	3-5-10-12-14				Kol-Seal		878#								
Baskets	2				Mud CLR 48		500 GAL								
D/V or Port Collar					CFL-117 or CD110 CAF 38		- CC-1 7 GAL								
Run 94 ft's 5 1/2 14" CSG SET @ 3333							Sand								
START CSG CSG ON Bottom Hook up to CSG							Handling 216								
Back circ w/ rig DRIP SET PKR 1000"							Mileage 35 / 7560								
Circ w/ rig							5 1/2 FLOAT EQUIPMENT								
START Pumping 6 Bbls 12 Bbls MP 6 4 1/2 H2O							Guide Shoe 1 EA HEAD & MANIFOLD								
START Plug R.M 16/65 50 SX							Centralizer 5-								
START Mix! Pump 125 SCS CSG 1/4 B 1/4 GAL							Baskets 1								
SHUT DOWN Washup tek RELEASE LD Plug							AFU Inserts								
START DISP W/ 2% KEL							Float Shoe 1 EA PKR SHOE BSET TYPE								
Lift PSI 700" 67 out							Latch Down 1 EA								
Land Plug 30 1/2 out 1100"							SERVICE Supv 1 EA								
Pick up on CSG 1500"							LMV 35								
RELEASE? HELD 1/4 Bbl BACK							Pumptrk Charge LS								
							Mileage 70								
Thank you PLEASE CALL AGAIN							Tax								
TODD TJ JAKE							Discount								
Signature							Total Charge								

3272.26



Joshua R. Austin

Petroleum Geologist

report for
RAMA Operating CO., Inc



COMPANY: RAMA Operating Company, Inc.

LEASE: WALLACE #11-29

FIELD: CHASE-SILICA

LOCATION: 1830' FSL & 1160' FWL (NE-SE-NW-SW)

SEC: 29 **TWSP:** 19s **RGE:** 9w

COUNTY: Rice **STATE:** Kansas

KB: 1727' **GL:** 1715'

API # 15-159-22868-00-00

CONTRACTOR: Sterling Drilling (rig #4)

Spud: 7/27/19 **Comp:** 8/3/19

RTD: 3750' **LTD:** 3750'

Mud Up: 2407' **Type Mud:** Chemical was displaced

Samples Saved From: 2400' to RTD

Drilling Time Kept From: 2400' to RTD

Samples Examined From: 2400' to RTD

Geological Supervision From: 2700' to RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @ 311'

Production Casing: 5 1/2" @ 3343'

Electronic Surveys: Pioneer Energy Services

NOTES

On the basis of the drill stem test and reviewing the electric logs it was recommend by all parties involved to set 5 1/2" casing to test the Arbuckle. Rotary total depth is 3750', casing was set at 3343' with intentions to convert to a salt water disposal well when needed.

Date: 7/27/2019

Moving to location. Will spud today

Date:

7/28/2019

Survey at 315' = 3/4 degree

Survey at 315' = 1/4 degree
 WOC at 315' at 7:00 am. Drilled 315' in 24.00 hours.
 Drilled 12-1/4" hole to 315'. Ran 7 joints new, 23#, 8-5/8" casing. Texas shoe.
 Tallied 299.07 + 12.30' LJ', set at 311' KB. Cemented with 210 sacks 60/40 POZ; 2% Gel, 3% CC & 1/2# FS.
 Cement did circulate. Plug down at 12:00 am on 07/28/19 by Quality Cementing Services. Ticket # 7187.
 Welded straps on bottom 3 joints, tacked collars on remaining. Wooden/rubber plug.

Date: 7/29/2019
 Test BOP to 500 psi. Tag top of cement at 285'. Anhydrite (341' - 354')
 Drilling at 1645' at 7:00 am. Drilled 1330' in 24.00 hours.

Date: 7/30/2019
 Displaced mud system at 2407'.
 Drilling at 2645' at 7:00 am. Drilled 1000' in 24.00 hours.

Date: 7/31/2019
 Survey at 2954' = 1/2 Degree. DST #1 (2937' - 2954'). Pipe strap 0.93' short to board.
 Circulating to clean the hole at 2954' at 7:00 am after DST #1. Drilled 309' in 24 hours.

Date: 8/1/2019
 DST #2 (3190' - 3240').
 Trip in hole with bit at 3240' at 7:00 am after DST #2. Drilled 286' in 24 hours.

Date: 8/2/2019
 Drilling at 3305' at 7:00 am. Drilled 65' in 24.00 hours.
 Bit No. 1: New 7-7/8" JZ HA20 ((#180714)(3-16's)), in at 315', out at 3258', drilled 2,943' in 59.50 hours.
 Bit No. 2: New 7-7/8" PDC Logic PLT616D6, (#S09213)(4-14's, 2-18's), in at 3258', drilled 47' in 1.25 hours.

Date: 8/3/2019
 RTD = 3750', LTD = 3750'. Survey at 3750' = 1-3/4 degrees
 Laying down drill pipe at 3750' at 7:00 am. Drilled 445' in 24.00 hours.
 Slowly losing fluid at 3750' with 5 lb/bbl LCM. Made 10 stand short trip. Shut down to mix 100 bbl of mud. Added for volume after short trip.
 Mixed another 100 bbl mud while logging. After logs rig tripped back in to 3379' and added mud while circulating prior to laying down drill pipe.
 Began laying down drill pipe with bit at 3379'
 Ran 94 joints of used 14.0#, 5-1/2" casing. Tallied 3333.84', set at 3343.84' KB. Float insert at 3311'.
 Lost a total of 250 bbl of mud. Still had seepage loss before packer was set.
 Basket on #2. Centralizers (5) on 3,5,10,12,14. Packer shoe on bottom. Cemented with 125 sacks PRO C,
 Plug down at 4:00 pm on 08/03/19. Plugged rathole with 30 sks, mousehole with 20 sks
 Rig released at 5:30 pm on 08/03/19.

RAMA Operating Company Inc. well comparison sheet

	DRILLING WELL Wallace #11-29				COMPARISON WELL Wallace #9				COMPARISON WELL Wallace #6			
	1727 KB				1720 KB		Structural Relationship		1718 KB		Structural Relationship	
	Sample	Sub-Sea	Log	Sub-Sea	Sample	Sub-Sea	Sample	Log	Sample	Sub-Sea	Sample	Log
Formation	Sample	Sub-Sea	Log	Sub-Sea	Sample	Sub-Sea	Sample	Log	Sample	Sub-Sea	Sample	Log
Anhydrite	341	1386										
Topeka	2500	-773	2498	-771	2486	-766	-7	-5	2498	-780	7	9
Heebner	2772	-1045	2769	-1042	2758	-1038	-7	-4	2768	-1050	5	8
Toronto	2791	-1064	2790	-1063	2780	-1060	-4	-3	2790	-1072	8	9
Douglas	2802	-1075	2801	-1074	2792	-1072	-3	-2	2799	-1081	6	7
Brown Lime	2899	-1172	2897	-1170	2886	-1166	-6	-4	2895	-1177	5	7
Lansing	2921	-1194	2921	-1194	2920	-1200	6	6	2920	-1202	8	8
Base KC	3212	-1485	3210	-1483	3200	-1480	-5	-3	3208	-1490	5	7
Arbuckle	3236	-1509	3234	-1507	3231	-1511	2	4	3225	-1507	-2	0
Total Depth	3750	-2023	3750	-2023	3248	-1528			3251	-1533		



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65802 DST#: 1

ATTN: Josh Austin

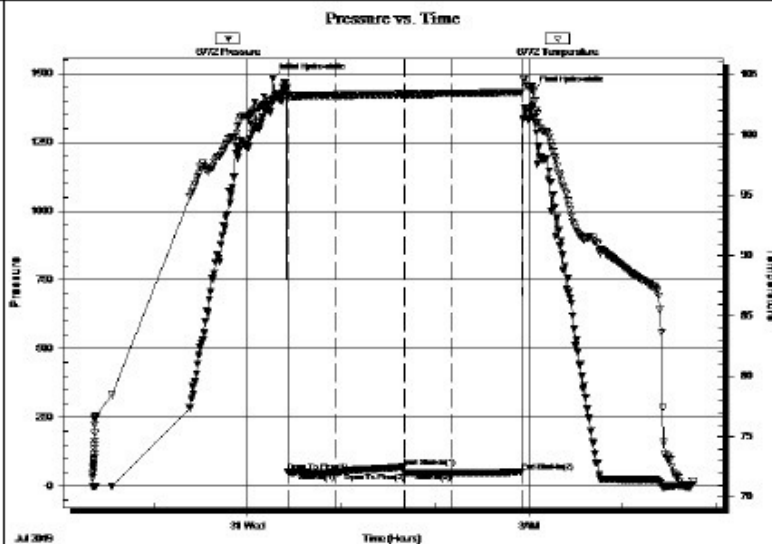
Test Start: 2019.07.30 @ 22:21:00

GENERAL INFORMATION:

Formation: LKC B
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:25:40
 Time Test Ended: 04:44:50
 Interval: 2937.00 ft (KB) To 2954.00 ft (KB) (TVD)
 Total Depth: 2954.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Benny Mulligan
 Unit No: 66
 Reference Elevations: 1727.00 ft (KB)
 1715.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 48.24 psig @ 2938.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.07.30 End Date: 2019.07.31 Last Calib.: 2019.07.31
 Start Time: 22:21:01 End Time: 04:44:50 Time On Btm: 2019.07.31 @ 00:16:20
 Time Off Btm: 2019.07.31 @ 03:02:00

TEST COMMENT: IF-30- Built to 11.8"
 IS-45- No blow back
 FF-30- Built to 3"
 FSI-45- No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1479.76	102.91	Initial Hydro-static
10	52.74	103.24	Open To Flow (1)
40	50.99	103.25	Shut-In(1)
84	70.37	103.35	End Shut-In(1)
85	49.66	103.37	Open To Flow (2)
115	48.24	103.38	Shut-In(2)
160	53.65	103.49	End Shut-In(2)
166	1434.61	104.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OSM 100%M	0.25

Gas Rates

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



TRILOBITE

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w



TESTING, INC

Rama Operating Co Inc
101 S. Main
Stafford KS 67578
ATTN: Josh Austin

29-19s-9w

Wallace #11-29

Job Ticket: 65803

DST#: 2

Test Start: 2019.08.01 @ 00:47:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 02:33:50
 Time Test Ended: 06:22:09

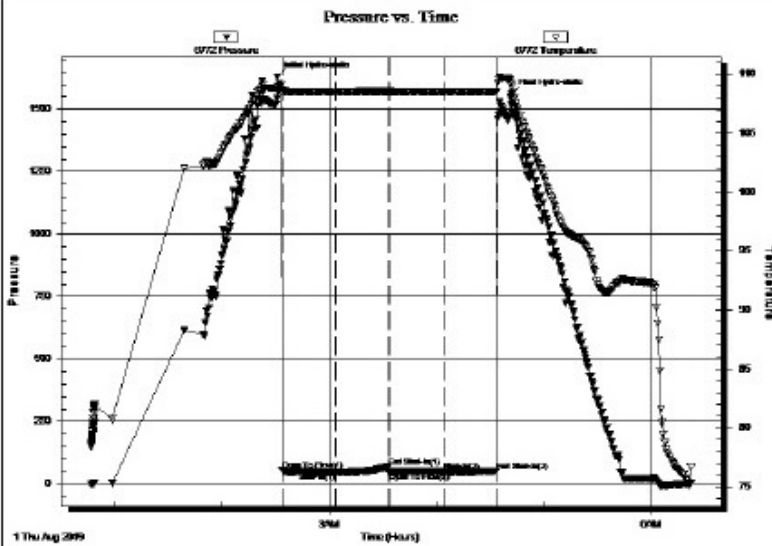
Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Benny Mulligan**
 Unit No: **66**

Interval: **3190.00 ft (KB) To 3240.00 ft (KB) (TVD)**
 Total Depth: **3240.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1727.00 ft (KB)**
1715.00 ft (CF)
 KB to GR/CF: **12.00 ft**

Serial #: 6772 **Inside**
 Press@RunDepth: **51.25 psig @ 3191.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2019.08.01** End Date: **2019.08.01** Last Calib.: **2019.08.01**
 Start Time: **00:47:01** End Time: **06:22:10** Time On Btm: **2019.08.01 @ 02:31:10**
 Time Off Btm: **2019.08.01 @ 04:42:00**

TEST COMMENT: IF-30- Built to 1.8"
 ISI-30- No blow back
 FF-30- No blow
 FSI-30- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.92	108.89	Initial Hydro-static
3	56.38	108.67	Open To Flow (1)
33	48.86	108.52	Shut-In(1)
63	69.76	108.57	End Shut-In(1)
63	49.35	108.55	Open To Flow (2)
93	51.25	108.52	Shut-In(2)
123	53.60	108.53	End Shut-In(2)
131	1560.77	109.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 20%O 80%M	0.05

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Rama Operating Co Inc
101 S. Main

29-19s-9w

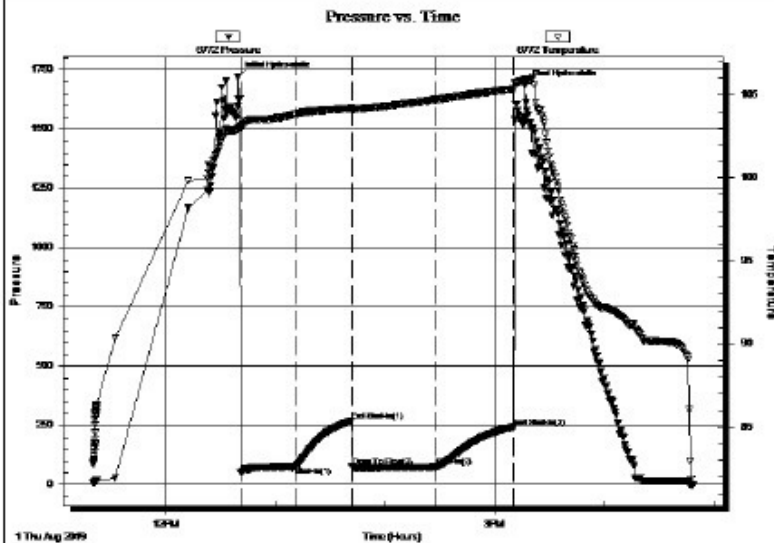
Wallace #11-29

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 12:41:00
 Time Test Ended: 16:48:50
 Interval: **3240.00 ft (KB) To 3248.00 ft (KB) (TVD)**
 Total Depth: **3248.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Benny Mulligan**
 Unit No: **66**
 Reference Elevations: **1727.00 ft (KB)**
1715.00 ft (CF)
 KB to GR/CF: **12.00 ft**

Serial #: 6772 **Inside**
 Press@RunDepth: **77.28 psig @ 3241.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2019.08.01** End Date: **2019.08.01** Last Calib.: **2019.08.01**
 Start Time: **11:20:01** End Time: **16:48:50** Time On Btn: **2019.08.01 @ 12:39:30**
 Time Off Btn: **2019.08.01 @ 15:16:40**

TEST COMMENT: IF-30- Built to 6.8"
 IS-30- No blow back
 FF-45- Built to 9"
 FSI-45- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.53	102.96	Initial Hydro-static
2	50.76	102.93	Open To Flow (1)
32	76.42	103.83	Shut-In(1)
62	267.94	104.20	End Shut-In(1)
63	76.09	104.15	Open To Flow (2)
109	77.28	104.71	Shut-In(2)
151	244.48	105.35	End Shut-In(2)
158	1684.26	105.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GSOCM 20%G 10%O 70%M	0.31
64.00	GOCM 20%G 30%O 50%M	0.31
0.00	GIP 190'	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc
 101 S. Main
 Stafford KS 67578
 ATTN: Josh Austin

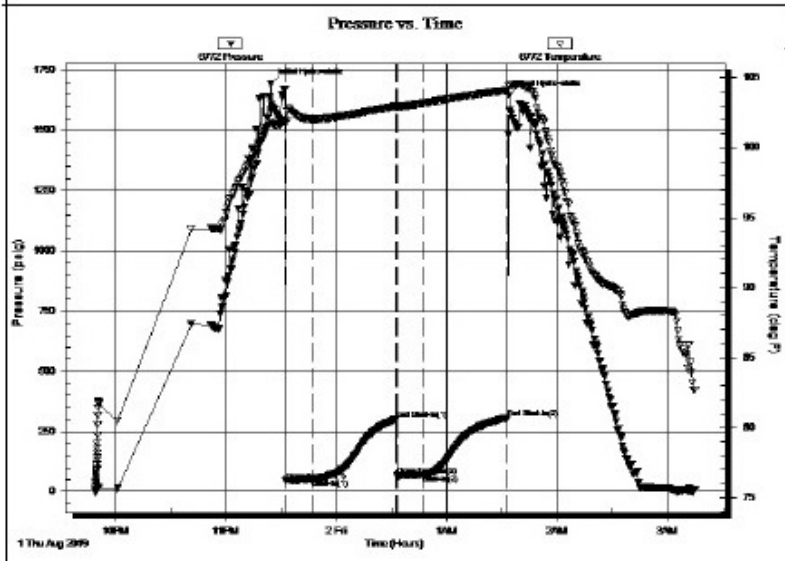
29-19s-9w
Wallace #11-29
 Job Ticket: 65805 DST#: 4
 Test Start: 2019.08.01 @ 21:49:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **23:32:40** Tester: **Benny Mulligan**
 Time Test Ended: **03:15:09** Unit No: **66**
 Interval: **3248.00 ft (KB) To 3258.00 ft (KB) (TVD)** Reference Elevations: **1727.00 ft (KB)**
 Total Depth: **3258.00 ft (KB) (TVD)** **1715.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** **KB to GR/CF: 12.00 ft**

Serial #: 6772 **Inside**
 Press@RunDepth: **71.60 psig @ 3249.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2019.08.01** End Date: **2019.08.02** Last Calib.: **2019.08.02**
 Start Time: **21:49:01** End Time: **03:15:10** Time On Btm: **2019.08.01 @ 23:24:30**
 Time Off Btm: **2019.08.02 @ 01:34:00**

TEST COMMENT: IF-15-BOB 12 mins 10 secs total build of 14.7"
 ISI-45- No blow back
 FF-15- Built to 6"
 FSI-45- No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.19	101.87	Initial Hydro-static
9	46.53	101.72	Open To Flow (1)
23	52.56	102.05	Shut-In(1)
68	300.10	102.97	End Shut-In(1)
69	66.09	102.92	Open To Flow (2)
83	71.60	103.18	Shut-In(2)
129	306.10	104.10	End Shut-In(2)
130	1645.85	104.46	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
64.00	MCO 40%M 60%O	0.31
64.00	CO 100%O	0.31
0.00	GIP 190'	0.00

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

ROCK TYPES

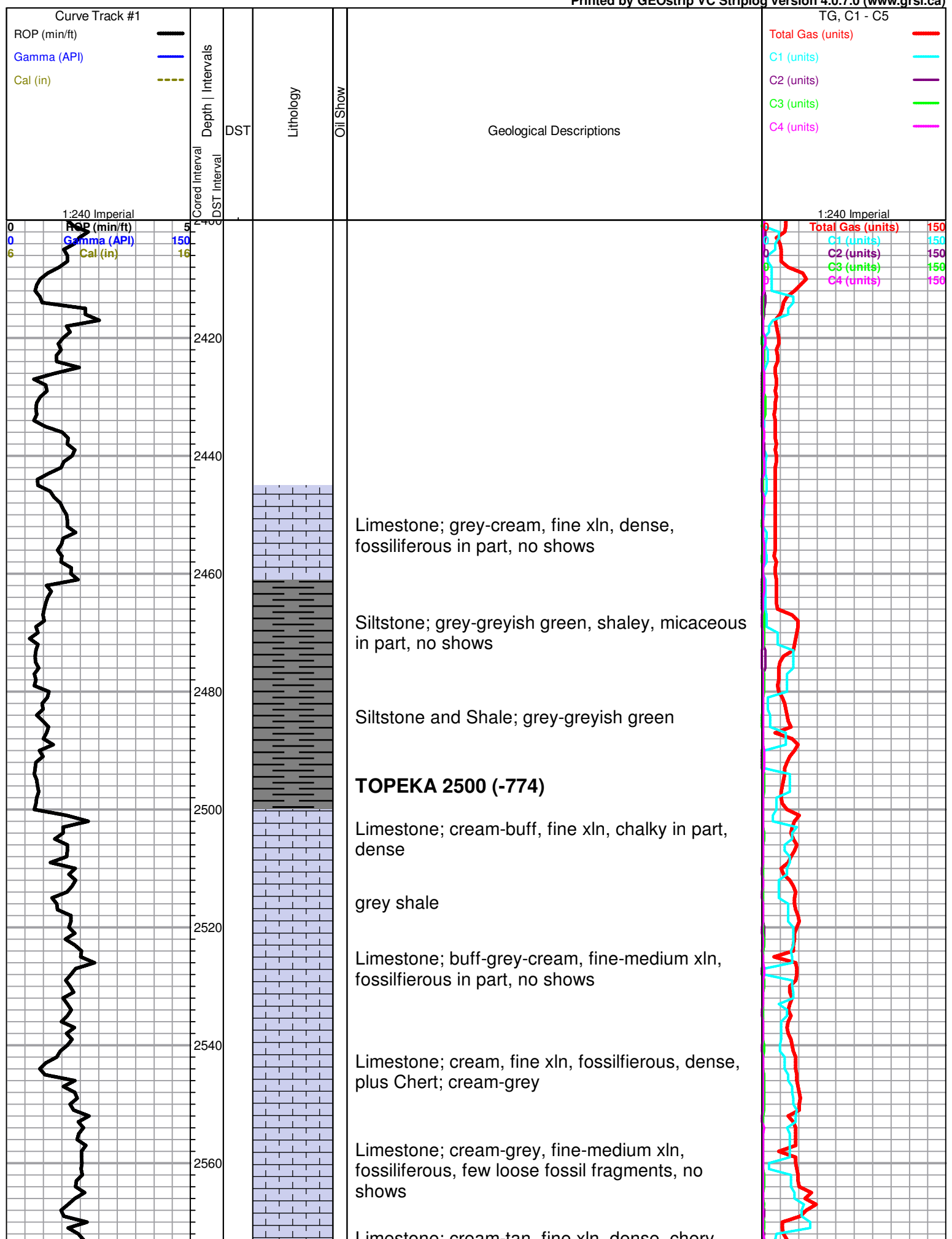
Chtcong	Dolsec	Lmst fw7>	shale, gry	Slst
Dolprim	sdy lmst	shale, grn	Carbon Sh	

ACCESSORIES

MINERAL
 △ Chert White

OTHER SYMBOLS

DST
 DST Int
 DST alt



1:240 Imperial

ROP (min/ft)

Gamma (API)

Cal (in)

1:240 Imperial

Total Gas (units)

C1 (units)

C2 (units)

C3 (units)

C4 (units)

Cored Interval
DST Interval

Limestone; grey-cream, fine xln, dense, fossiliferous in part, no shows

Siltstone; grey-greyish green, shaley, micaceous in part, no shows

Siltstone and Shale; grey-greyish green

TOPEKA 2500 (-774)

Limestone; cream-buff, fine xln, chalky in part, dense

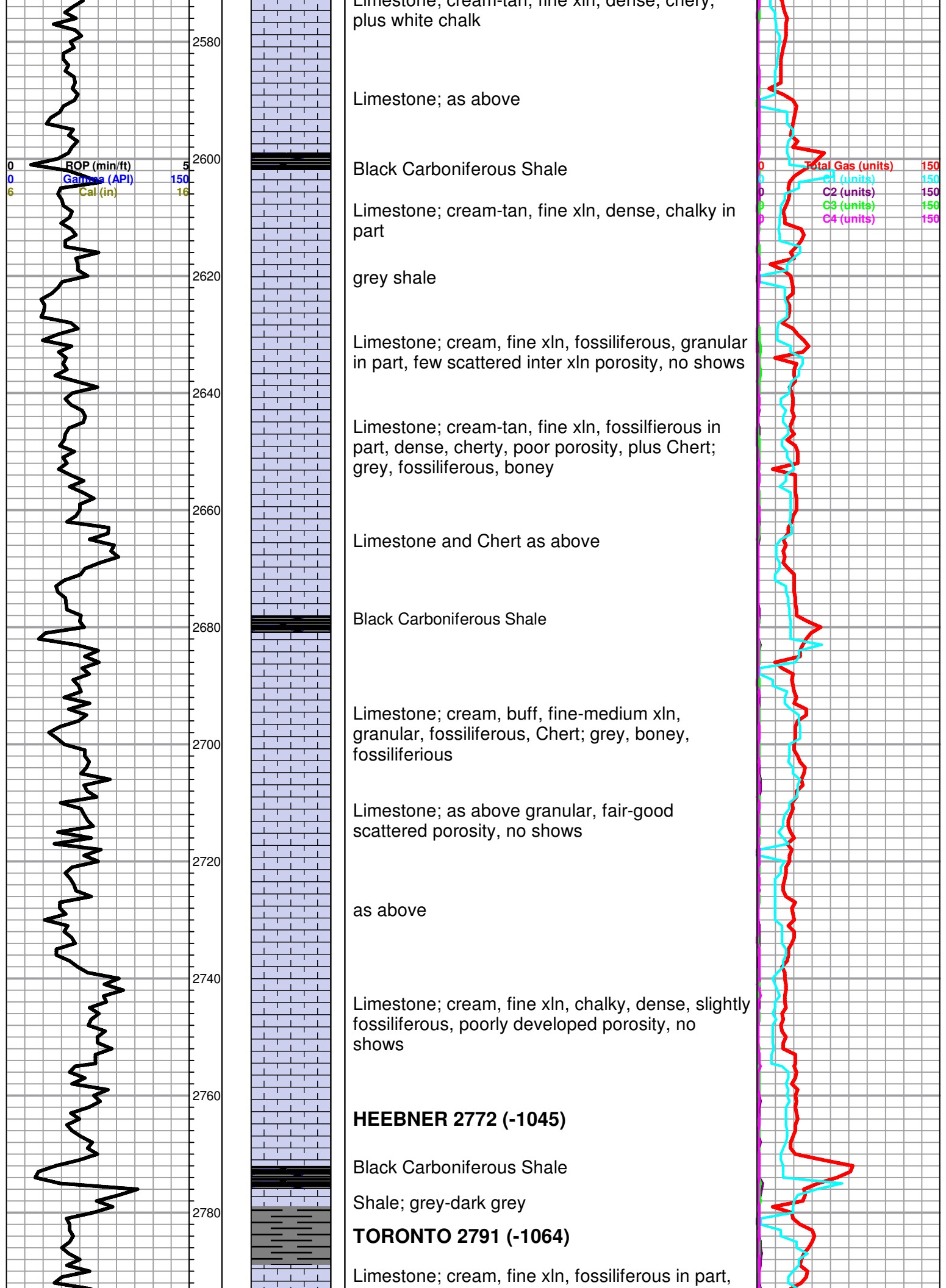
grey shale

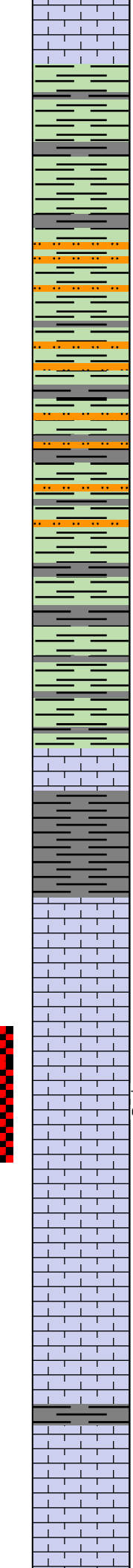
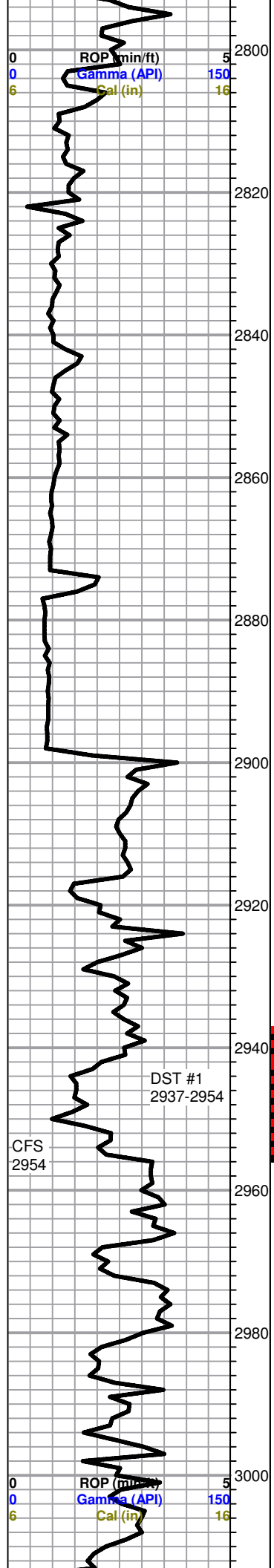
Limestone; buff-grey-cream, fine-medium xln, fossiliferous in part, no shows

Limestone; cream, fine xln, fossiliferous, dense, plus Chert; cream-grey

Limestone; cream-grey, fine-medium xln, fossiliferous, few loose fossil fragments, no shows

Limestone; cream-tan, fine xln, dense, cherty





pin point-inter xln porosity, chalky in part, no shows

DOUGLAS 2802 (-1075)

Shale; grey-green-brick red

Shale; as above

Shale; grey-greyish green, silty, micaceous in part

Siltstone; grey-greyish green, shaley, micaceous in part, no shows

Siltstone and Shale as above

Shale; grey-greyish green, silty, micaceous in part, soft/gummy

BROWN LIME 2899 (-1172)

Limestone; tan, fine xln, dense, cherty, fossiliferous poor visible porosity

Shale; grey-dark grey

LANSING 2921 (-1194)

Limestone; cream, fine xln, chalky, dense, poorly developed inter xln porosity, no shows

Limestone; cream-tan, sub oomoldic, oolitic, fair-good porosity, spotty SFO, gas bubbles, faint-fair odor (132 unit gas kick)

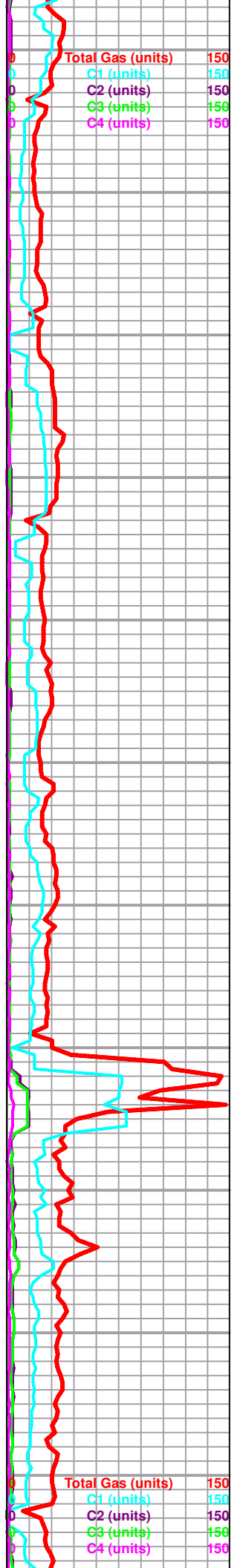
Limestone; cream-grey, fine xln, dense, mottled in part, poor porosity, plus Chert; grey, fossiliferous

Limestone; grey-tan, fossiliferous, dense, cherty, poorly developed porosity, no shows

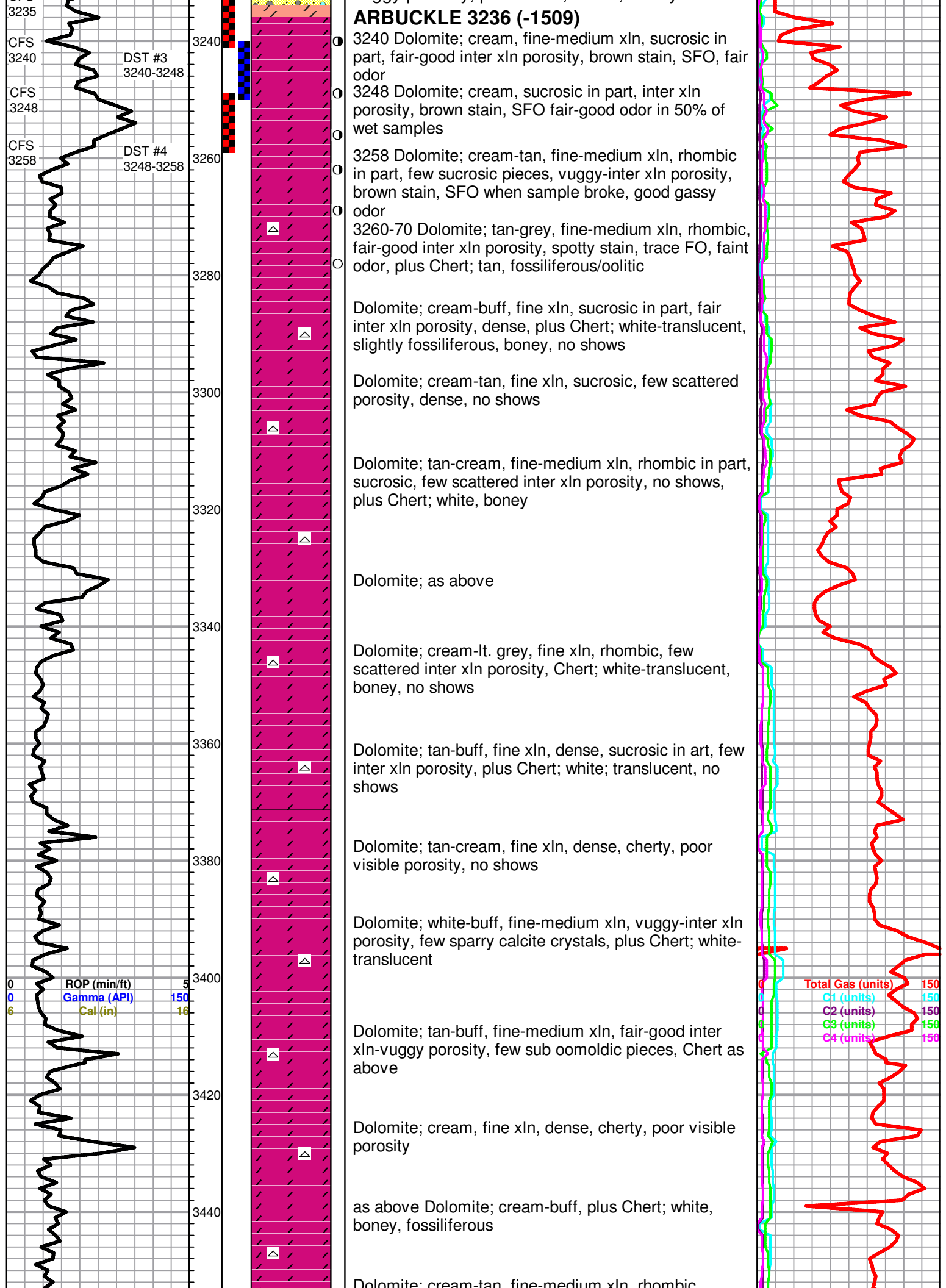
grey shale

Limestone; grey-cream-lt. grey, fine xln, chalky, slightly fossiliferous, no shows

Limestone; tan, oomoldic, fair-good oomoldic



ARBUCKLE 3236 (-1509)



3240 Dolomite; cream, fine-medium xln, sucrosic in part, fair-good inter xln porosity, brown stain, SFO, fair odor

3248 Dolomite; cream, sucrosic in part, inter xln porosity, brown stain, SFO fair-good odor in 50% of wet samples

3258 Dolomite; cream-tan, fine-medium xln, rhombic in part, few sucrosic pieces, vuggy-inter xln porosity, brown stain, SFO when sample broke, good gassy odor

3260-70 Dolomite; tan-grey, fine-medium xln, rhombic, fair-good inter xln porosity, spotty stain, trace FO, faint odor, plus Chert; tan, fossiliferous/oolitic

Dolomite; cream-buff, fine xln, sucrosic in part, fair inter xln porosity, dense, plus Chert; white-translucent, slightly fossiliferous, boney, no shows

Dolomite; cream-tan, fine xln, sucrosic, few scattered porosity, dense, no shows

Dolomite; tan-cream, fine-medium xln, rhombic in part, sucrosic, few scattered inter xln porosity, no shows, plus Chert; white, boney

Dolomite; as above

Dolomite; cream-lt. grey, fine xln, rhombic, few scattered inter xln porosity, Chert; white-translucent, boney, no shows

Dolomite; tan-buff, fine xln, dense, sucrosic in art, few inter xln porosity, plus Chert; white; translucent, no shows

Dolomite; tan-cream, fine xln, dense, cherty, poor visible porosity, no shows

Dolomite; white-buff, fine-medium xln, vuggy-inter xln porosity, few sparry calcite crystals, plus Chert; white-translucent

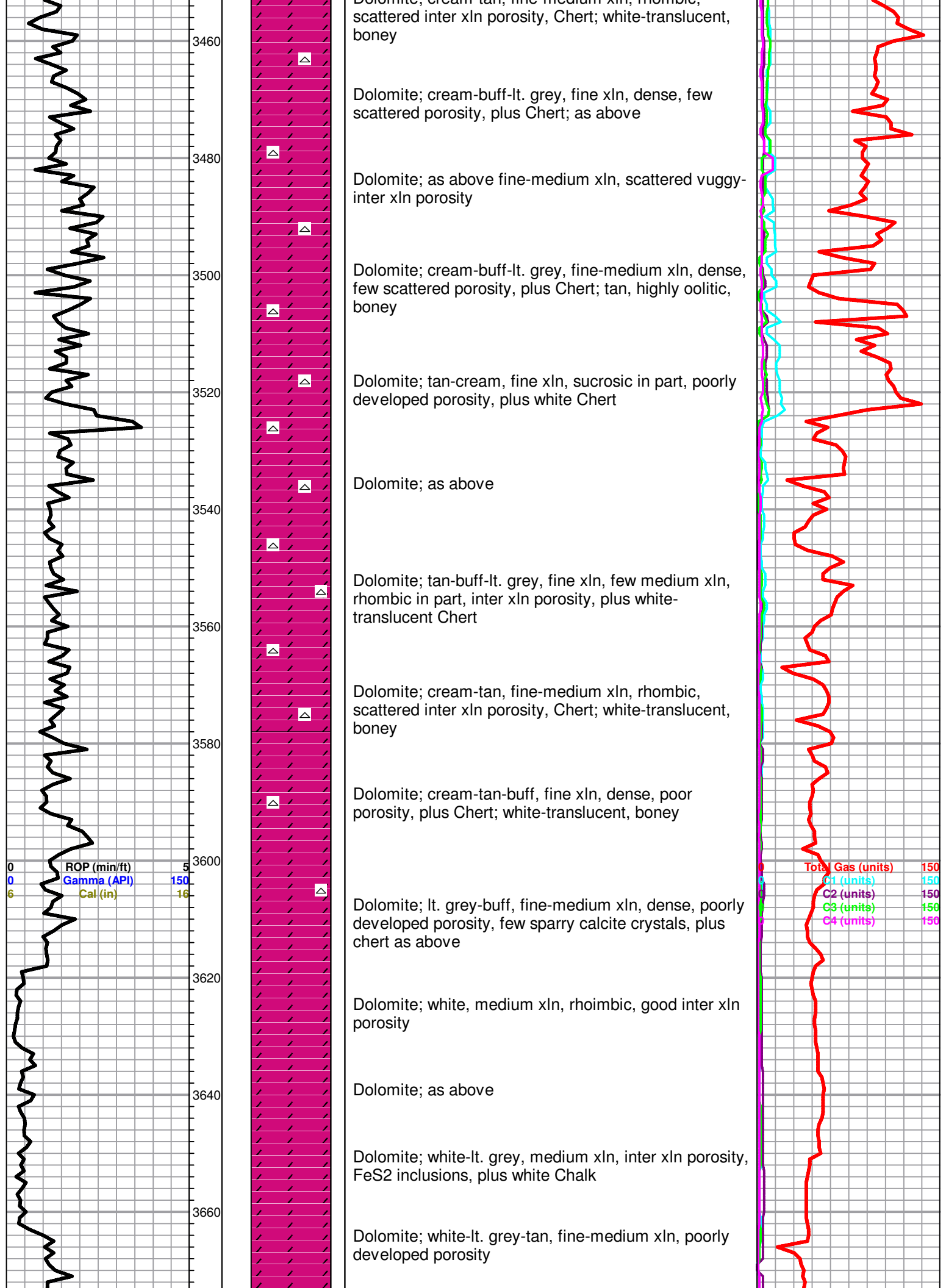
Dolomite; tan-buff, fine-medium xln, fair-good inter xln-vuggy porosity, few sub oomoldic pieces, Chert as above

Dolomite; cream, fine xln, dense, cherty, poor visible porosity

as above Dolomite; cream-buff, plus Chert; white, boney, fossiliferous

Dolomite; cream-tan, fine-medium xln, rhombic

Total Gas (units) 150
 C1 (units) 150
 C2 (units) 150
 C3 (units) 150
 C4 (units) 150



3680
3700
3720
3740
3760
3780



Dolomite; grey-white, fine-medium xln, fair inter xln porosity, plus white chalk

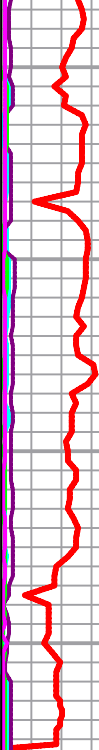
Dolomite; white-cream-buff, fine-medium xln, rhombic, good inter xln porosity

Dolomite as above

Dolomite; tan-grey-cream, fine-medium xln, dense, few scattered inter xln porosity, slightly cherty

Started losing returns, pulled 10 stands, did not recover samples

ROTARY TOTAL DEPTH 3750 (-2023)





DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

101 S. Main
Stafford KS 67578

ATTN: Josh Austin

Wallace #11-29

29-19s-9w

Start Date: 2019.07.30 @ 22:21:00

End Date: 2019.07.31 @ 04:44:50

Job Ticket #: 65802 DST #: 1

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

Printed: 2019.08.02 @ 11:23:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65802

DST#: 1

ATTN: Josh Austin

Test Start: 2019.07.30 @ 22:21:00

GENERAL INFORMATION:

Formation: **LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:25:40

Time Test Ended: 04:44:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: 2937.00 ft (KB) To 2954.00 ft (KB) (TVD)

Reference Elevations: 1727.00 ft (KB)

Total Depth: 2954.00 ft (KB) (TVD)

1715.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6772 Inside

Press@RunDepth: 48.24 psig @ 2938.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.30

End Date:

2019.07.31

Last Calib.: 2019.07.31

Start Time: 22:21:01

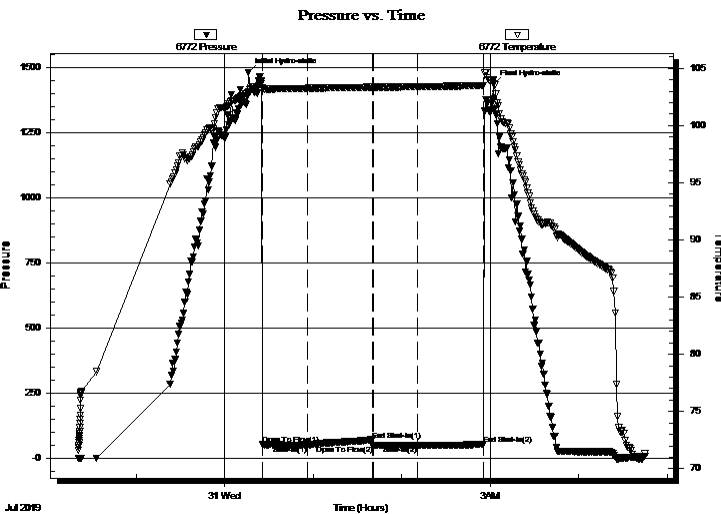
End Time:

04:44:50

Time On Btm: 2019.07.31 @ 00:16:20

Time Off Btm: 2019.07.31 @ 03:02:00

TEST COMMENT: IF-30- Built to 11.8"
ISI-45- No blow back
FF-30- Built to 3"
FSI-45- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1479.76	102.91	Initial Hydro-static
10	52.74	103.24	Open To Flow (1)
40	50.99	103.25	Shut-In(1)
84	70.37	103.35	End Shut-In(1)
85	49.66	103.37	Open To Flow (2)
115	48.24	103.38	Shut-In(2)
160	53.65	103.49	End Shut-In(2)
166	1434.61	104.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OSM 100%M	0.25

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65802

DST#: 1

ATTN: Josh Austin

Test Start: 2019.07.30 @ 22:21:00

GENERAL INFORMATION:

Formation: **LKC B**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:25:40
 Tester: Benny Mulligan
 Time Test Ended: 04:44:50
 Unit No: 66
 Interval: **2937.00 ft (KB) To 2954.00 ft (KB) (TVD)**
 Reference Elevations: 1727.00 ft (KB)
 Total Depth: 2954.00 ft (KB) (TVD)
 1715.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 12.00 ft

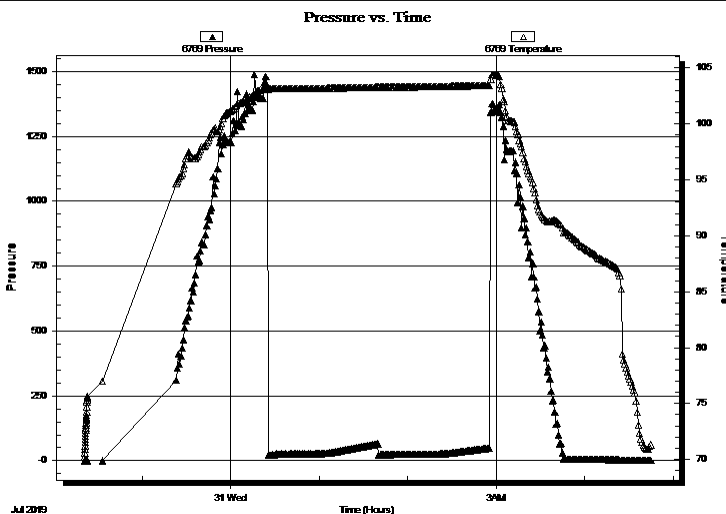
Serial #: 6769

Outside

Press@RunDepth: psig @ 2938.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2019.07.30
 End Date: 2019.07.31
 Last Calib.: 2019.07.31
 Start Time: 22:21:01
 End Time: 04:44:50
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-30- Built to 11.8"
 ISI-45- No blow back
 FF-30- Built to 3"
 FSI-45- No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OSM 100%M	0.25

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65802

DST#: 1

ATTN: Josh Austin

Test Start: 2019.07.30 @ 22:21:00

Tool Information

Drill Pipe:	Length: 2708.00 ft	Diameter: 3.80 inches	Volume: 37.99 bbl	Tool Weight: 2500.00 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 39.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	2937.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2918.00	
Shut In Tool	5.00			2923.00	
Hydraulic tool	5.00			2928.00	
Packer	5.00			2933.00	20.00 Bottom Of Top Packer
Packer	4.00			2937.00	
Stubb	1.00			2938.00	
Recorder	0.00	6772	Inside	2938.00	
Recorder	0.00	6769	Outside	2938.00	
Perforations	13.00			2951.00	
Bullnose	3.00			2954.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65802

DST#: 1

ATTN: Josh Austin

Test Start: 2019.07.30 @ 22:21:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OSM 100%M	0.246

Total Length: 50.00 ft Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

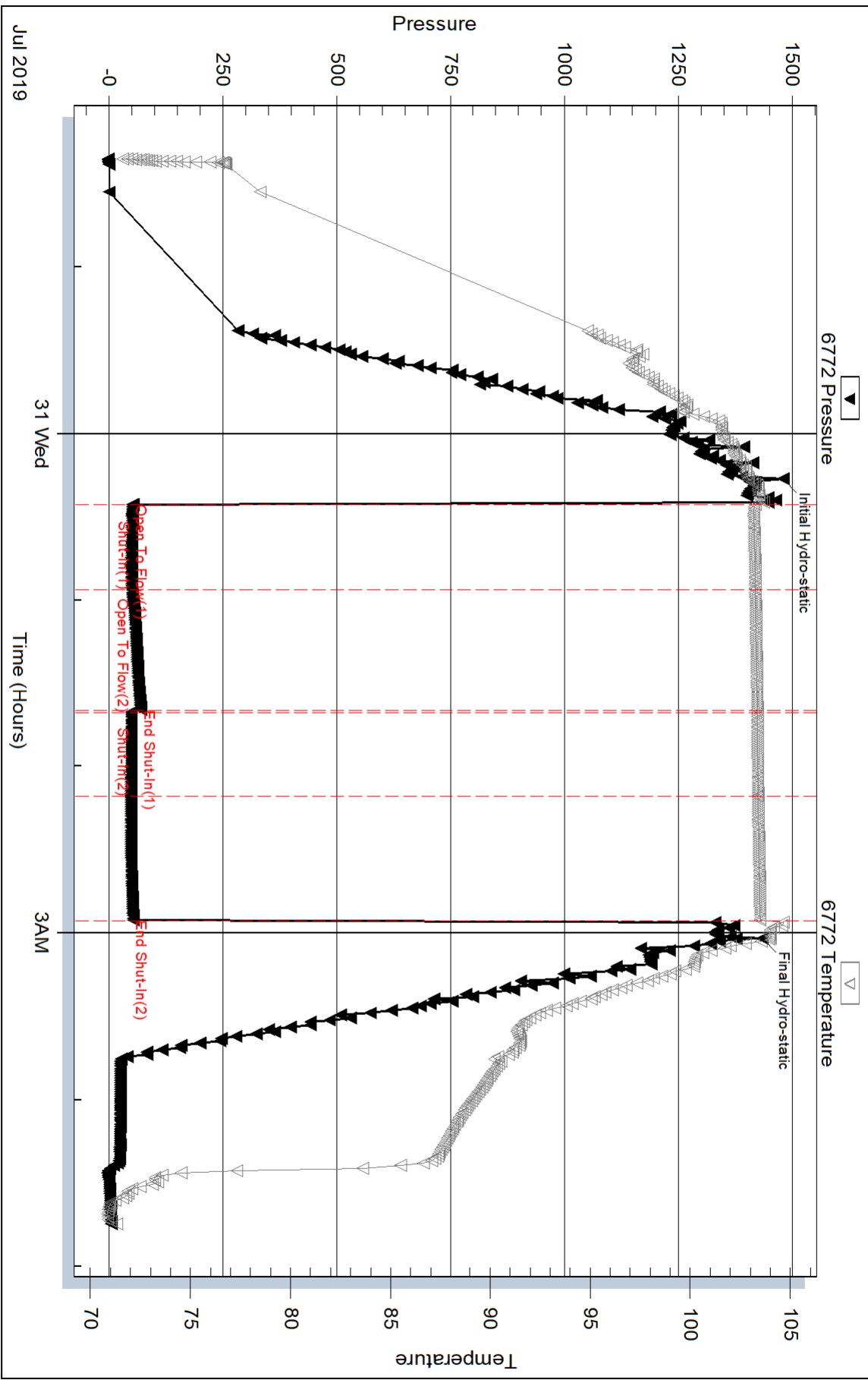
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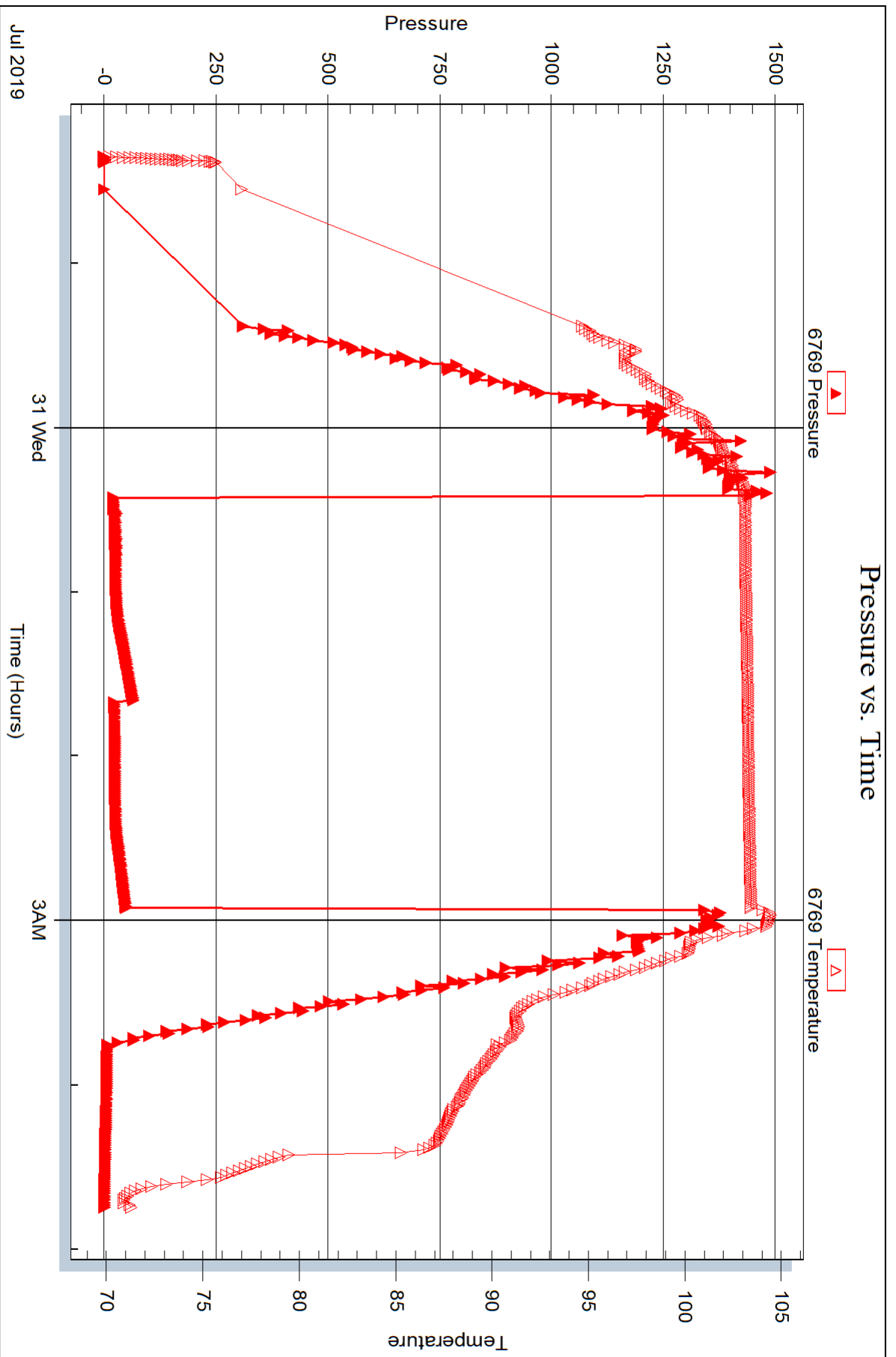
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

101 S. Main
Stafford KS 67578

ATTN: Josh Austin

Wallace #11-29

29-19s-9w

Start Date: 2019.08.01 @ 00:47:00

End Date: 2019.08.01 @ 06:22:09

Job Ticket #: 65803 DST #: 2

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

Printed: 2019.08.02 @ 11:23:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65803

DST#: 2

ATTN: Josh Austin

Test Start: 2019.08.01 @ 00:47:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:50

Time Test Ended: 06:22:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: 3190.00 ft (KB) To 3240.00 ft (KB) (TVD)

Reference Elevations: 1727.00 ft (KB)

Total Depth: 3240.00 ft (KB) (TVD)

1715.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6772

Inside

Press@RunDepth: 51.25 psig @ 3191.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.01

End Date:

2019.08.01

Last Calib.:

2019.08.01

Start Time: 00:47:01

End Time:

06:22:10

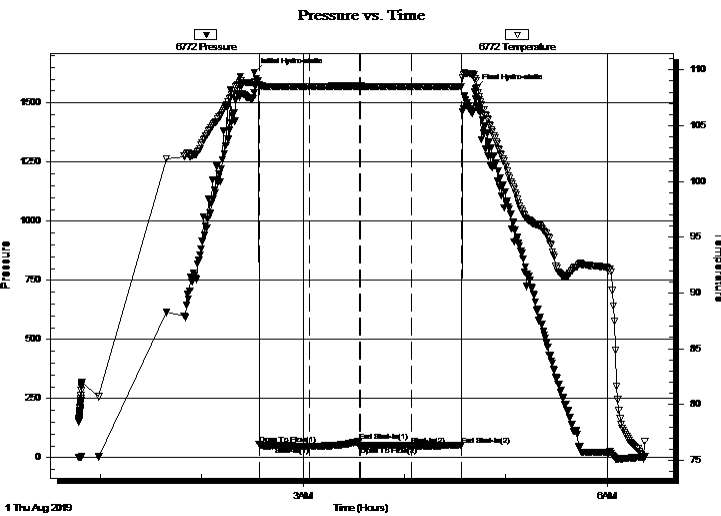
Time On Btm:

2019.08.01 @ 02:31:10

Time Off Btm:

2019.08.01 @ 04:42:00

TEST COMMENT: IF-30- Built to 1.8"
ISI-30- No blow back
FF-30- No blow
FSI-30- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.92	108.89	Initial Hydro-static
3	56.38	108.67	Open To Flow (1)
33	48.86	108.52	Shut-In(1)
63	69.76	108.57	End Shut-In(1)
63	49.35	108.55	Open To Flow (2)
93	51.25	108.52	Shut-In(2)
123	53.60	108.53	End Shut-In(2)
131	1560.77	109.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 20%O 80%M	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65803

DST#: 2

ATTN: Josh Austin

Test Start: 2019.08.01 @ 00:47:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:50

Time Test Ended: 06:22:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: **3190.00 ft (KB) To 3240.00 ft (KB) (TVD)**

Reference Elevations: 1727.00 ft (KB)

Total Depth: 3240.00 ft (KB) (TVD)

1715.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6769 Outside

Press@RunDepth: psig @ 3191.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.01 End Date: 2019.08.01

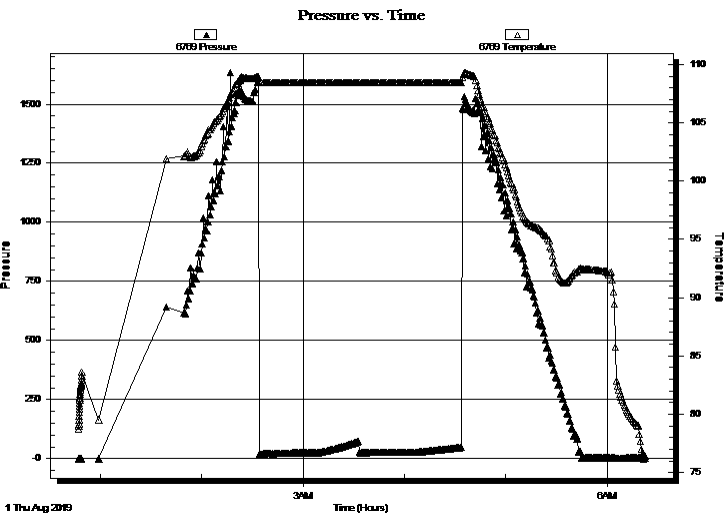
Last Calib.: 2019.08.01

Start Time: 00:47:01 End Time: 06:22:20

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Built to 1.8"
ISI-30- No blow back
FF-30- No blow
FSI-30- No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 20%O 80%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65803

DST#: 2

ATTN: Josh Austin

Test Start: 2019.08.01 @ 00:47:00

Tool Information

Drill Pipe:	Length: 2963.00 ft	Diameter: 3.80 inches	Volume: 41.56 bbl	Tool Weight: 2500.00 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 42.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3190.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3171.00	
Shut In Tool	5.00			3176.00	
Hydraulic tool	5.00			3181.00	
Packer	5.00			3186.00	20.00 Bottom Of Top Packer
Packer	4.00			3190.00	
Stubb	1.00			3191.00	
Recorder	0.00	6772	Inside	3191.00	
Recorder	0.00	6769	Outside	3191.00	
Perforations	12.00			3203.00	
Change Over Sub	1.00			3204.00	
Drill Pipe	32.00			3236.00	
Change Over Sub	1.00			3237.00	
Bullnose	3.00			3240.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65803

DST#: 2

ATTN: Josh Austin

Test Start: 2019.08.01 @ 00:47:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 20%O 80%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

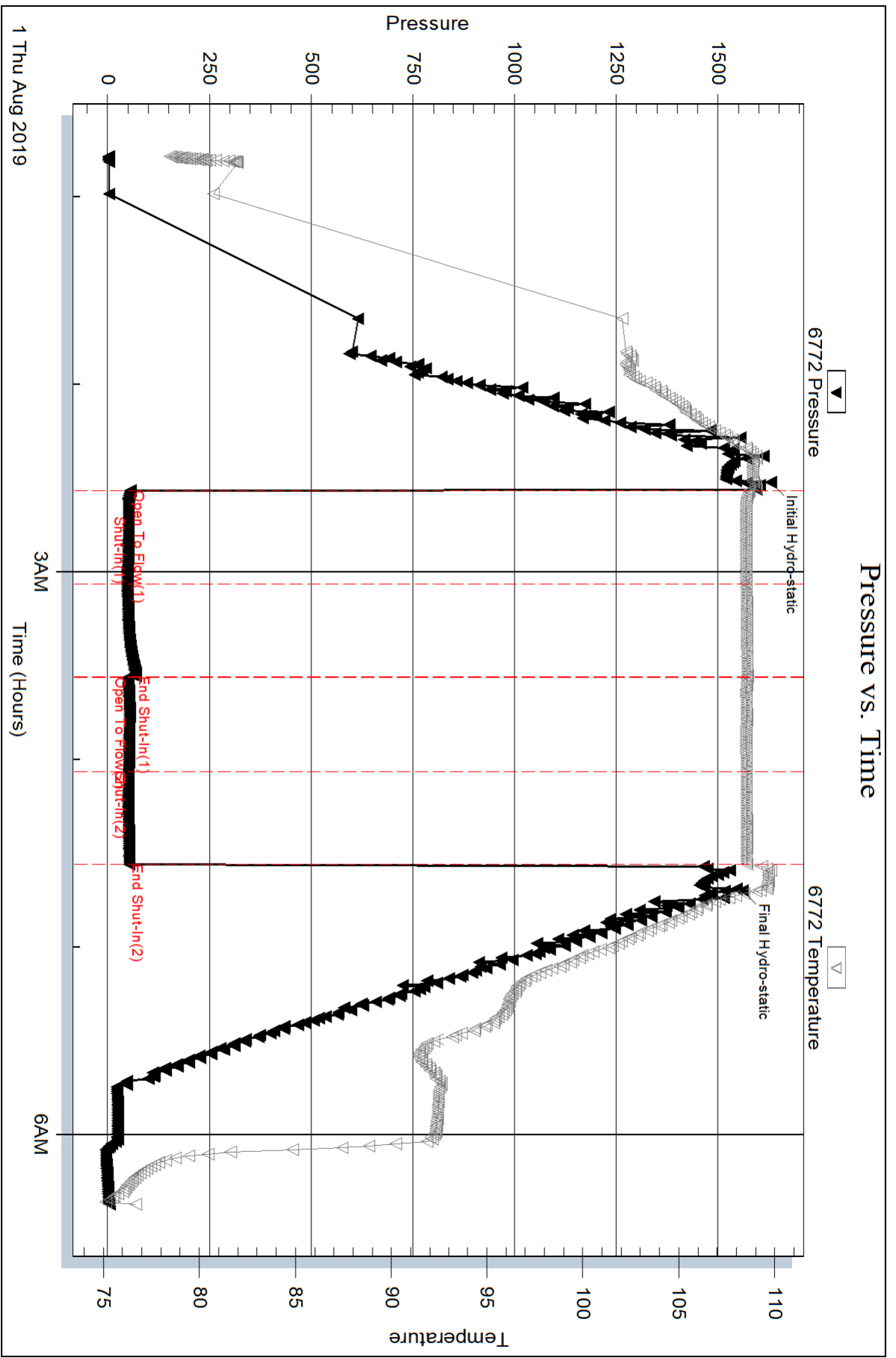
Num Gas Bombs: 0

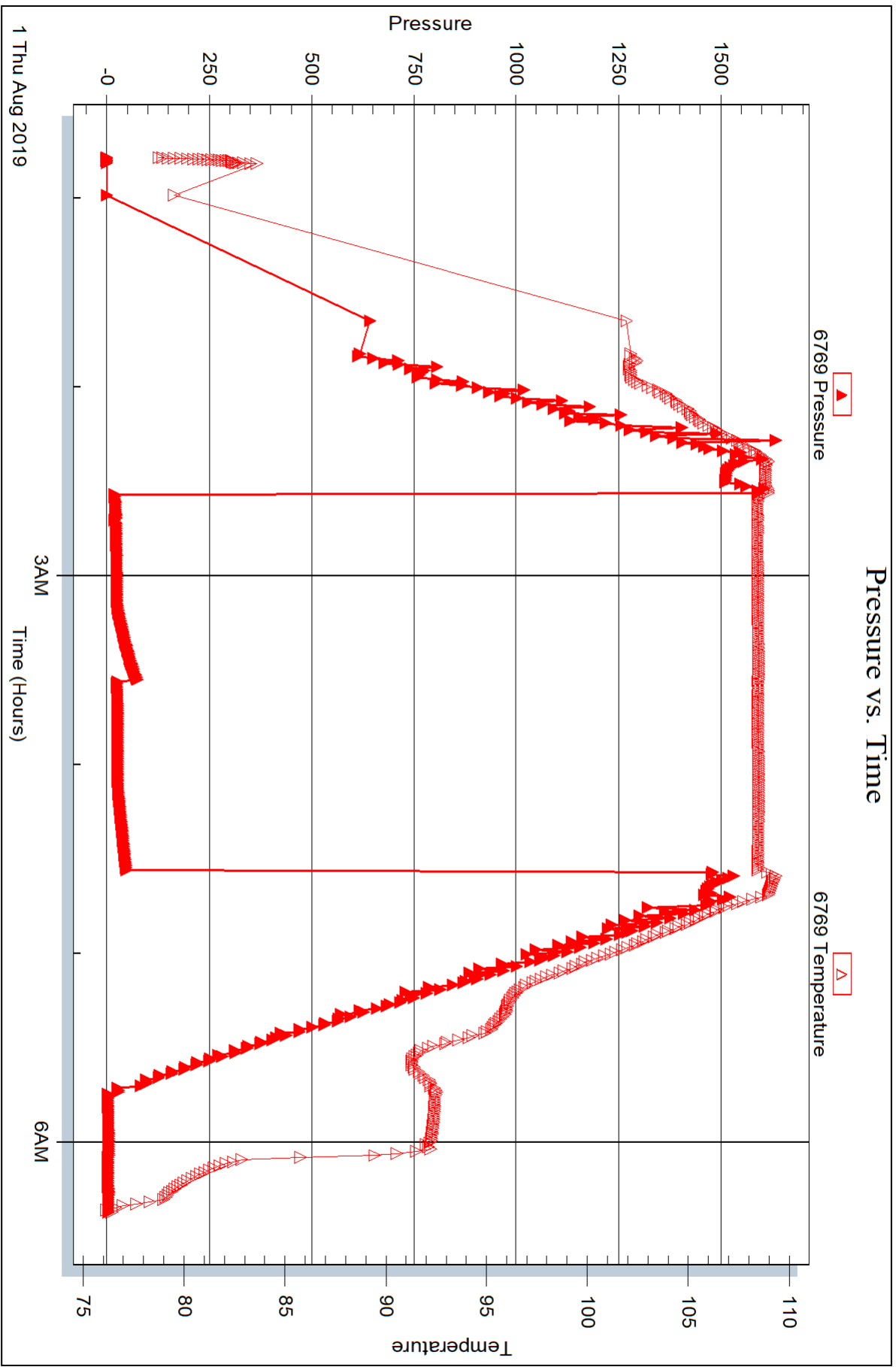
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

101 S. Main
Stafford KS 67578

ATTN: Josh Austin

Wallace #11-29

29-19s-9w

Start Date: 2019.08.01 @ 11:20:00

End Date: 2019.08.01 @ 16:48:50

Job Ticket #: 65804 DST #: 3

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

Printed: 2019.08.02 @ 11:19:19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65804

DST#: 3

ATTN: Josh Austin

Test Start: 2019.08.01 @ 11:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:41:00

Time Test Ended: 16:48:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: 3240.00 ft (KB) To 3248.00 ft (KB) (TVD)

Reference Elevations: 1727.00 ft (KB)

Total Depth: 3248.00 ft (KB) (TVD)

1715.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6772 Inside

Press@RunDepth: 77.28 psig @ 3241.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.01 End Date: 2019.08.01

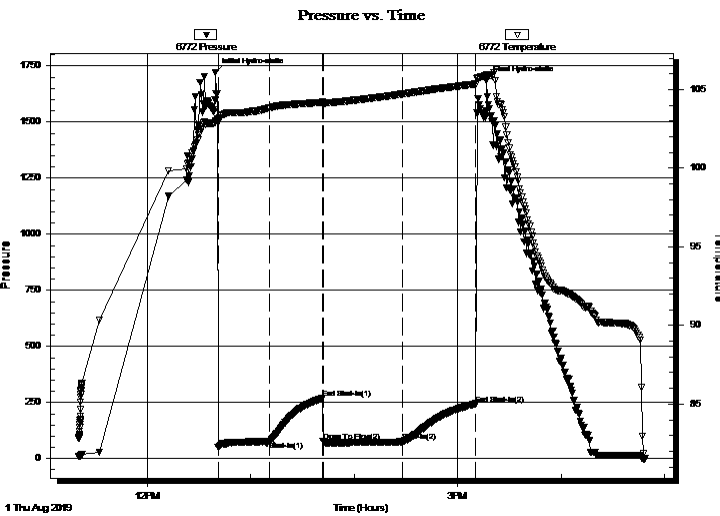
Last Calib.: 2019.08.01

Start Time: 11:20:01 End Time: 16:48:50

Time On Btm: 2019.08.01 @ 12:39:30

Time Off Btm: 2019.08.01 @ 15:16:40

TEST COMMENT: IF-30- Built to 6.8"
ISI-30- No blow back
FF-45- Built to 9"
FSI-45- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.53	102.96	Initial Hydro-static
2	50.76	102.93	Open To Flow (1)
32	76.42	103.83	Shut-In(1)
62	267.94	104.20	End Shut-In(1)
63	76.09	104.15	Open To Flow (2)
109	77.28	104.71	Shut-In(2)
151	244.48	105.35	End Shut-In(2)
158	1684.26	105.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GSOCM 20%G 10%O 70%M	0.31
64.00	GOCM 20%G 30%O 50%M	0.31
0.00	GIP 190'	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc
 101 S. Main
 Stafford KS 67578
 ATTN: Josh Austin

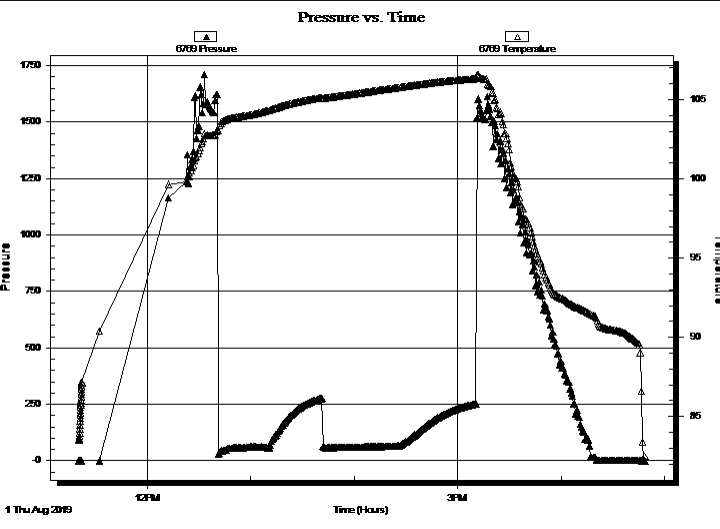
29-19s-9w
Wallace #11-29
 Job Ticket: 65804 **DST#: 3**
 Test Start: 2019.08.01 @ 11:20:00

GENERAL INFORMATION:

Formation: Arbuckle			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 12:41:00		Tester: Benny Mulligan	
Time Test Ended: 16:48:50		Unit No: 66	
Interval: 3240.00 ft (KB) To 3248.00 ft (KB) (TVD)		Reference Elevations: 1727.00 ft (KB)	
Total Depth: 3248.00 ft (KB) (TVD)		1715.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 12.00 ft	

Serial #: 6769	Outside		
Press@RunDepth: psig @ 3241.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2019.08.01	End Date: 2019.08.01	Last Calib.: 2019.08.01	
Start Time: 11:20:01	End Time: 16:48:50	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF-30- Built to 6.8"
 ISI-30- No blow back
 FF-45- Built to 9"
 FSI-45- No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GSOCM 20%G 10%O 70%M	0.31
64.00	GOCM 20%G 30%O 50%M	0.31
0.00	GIP 190'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65804

DST#: 3

ATTN: Josh Austin

Test Start: 2019.08.01 @ 11:20:00

Tool Information

Drill Pipe:	Length: 3027.00 ft	Diameter: 3.80 inches	Volume: 42.46 bbl	Tool Weight: 2500.00 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 43.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3240.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	28.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3221.00	
Shut In Tool	5.00			3226.00	
Hydraulic tool	5.00			3231.00	
Packer	5.00			3236.00	20.00 Bottom Of Top Packer
Packer	4.00			3240.00	
Stubb	1.00			3241.00	
Recorder	0.00	6772	Inside	3241.00	
Recorder	0.00	6769	Outside	3241.00	
Perforations	4.00			3245.00	
Bullnose	3.00			3248.00	8.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65804

DST#: 3

ATTN: Josh Austin

Test Start: 2019.08.01 @ 11:20:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
64.00	GSOCM 20%G 10%O 70%M	0.315
64.00	GOCM 20%G 30%O 50%M	0.315
0.00	GIP 190'	0.000

Total Length: 128.00 ft Total Volume: 0.630 bbl

Num Fluid Samples: 0

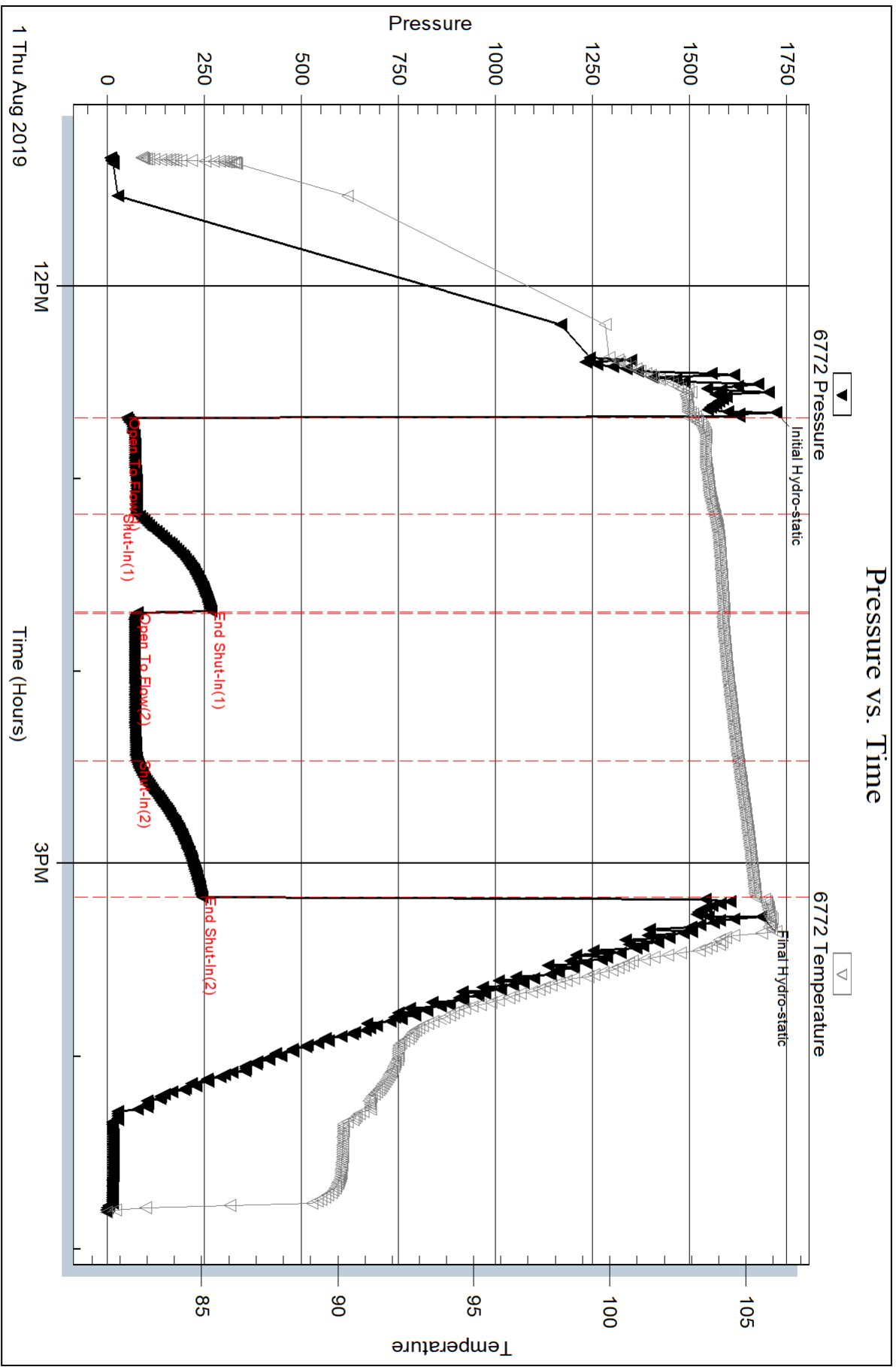
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

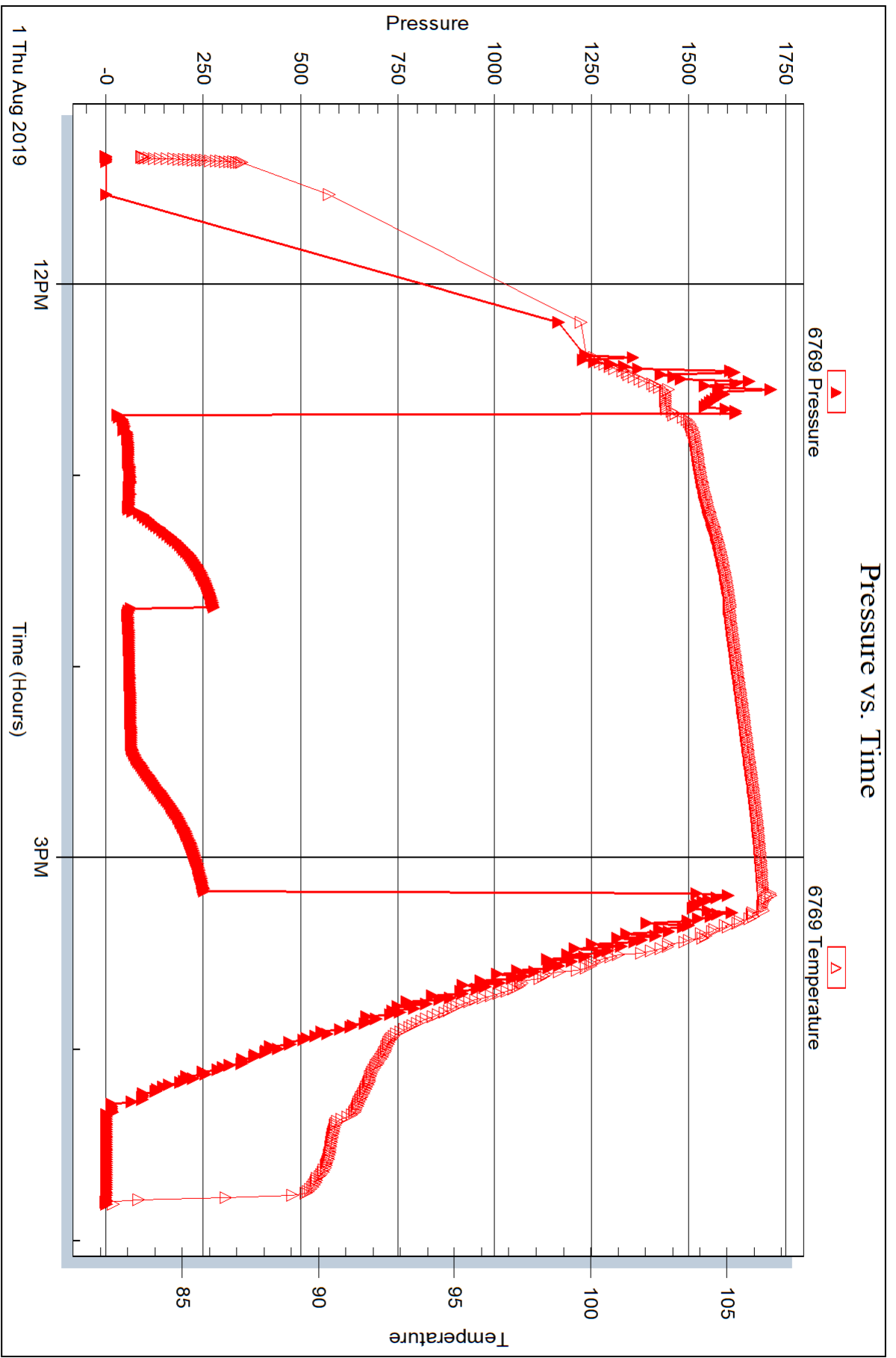


Serial #: 6769

Outside Rama Operating Co Inc

Wallace #11-29

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65804

Printed: 2019.08.02 @ 11:19:21



DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

101 S. Main
Stafford KS 67578

ATTN: Josh Austin

Wallace #11-29

29-19s-9w

Start Date: 2019.08.01 @ 21:49:00

End Date: 2019.08.02 @ 03:15:09

Job Ticket #: 65805 DST #: 4

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

Printed: 2019.08.02 @ 11:18:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65805

DST#: 4

ATTN: Josh Austin

Test Start: 2019.08.01 @ 21:49:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:40

Time Test Ended: 03:15:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: 3248.00 ft (KB) To 3258.00 ft (KB) (TVD)

Reference Elevations: 1727.00 ft (KB)

Total Depth: 3258.00 ft (KB) (TVD)

1715.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6772 Inside

Press@RunDepth: 71.60 psig @ 3249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.01

End Date:

2019.08.02

Last Calib.:

2019.08.02

Start Time: 21:49:01

End Time:

03:15:10

Time On Btm:

2019.08.01 @ 23:24:30

Time Off Btm:

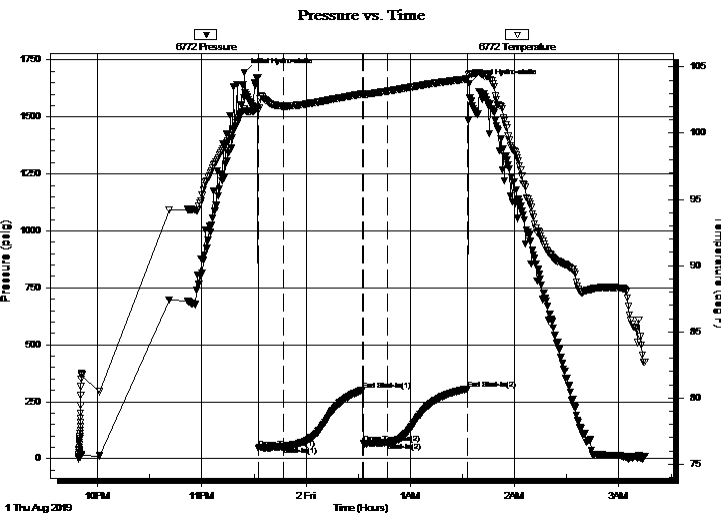
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TEST COMMENT: IF-15-BOB 12 mins 10 secs total build of 14.7"

ISI-45- No blow back

FF-15- Built to 6"

FSI-45- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.19	101.87	Initial Hydro-static
9	46.53	101.72	Open To Flow (1)
23	52.56	102.05	Shut-In(1)
68	300.10	102.97	End Shut-In(1)
69	66.09	102.92	Open To Flow (2)
83	71.60	103.18	Shut-In(2)
129	306.10	104.10	End Shut-In(2)
130	1645.85	104.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	MCO 40%M 60%O	0.31
64.00	CO 100%O	0.31
0.00	GIP 190'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65805

DST#: 4

ATTN: Josh Austin

Test Start: 2019.08.01 @ 21:49:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:40

Time Test Ended: 03:15:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: 3248.00 ft (KB) To 3258.00 ft (KB) (TVD)

Reference Elevations: 1727.00 ft (KB)

Total Depth: 3258.00 ft (KB) (TVD)

1715.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6769 Outside

Press@RunDepth: psig @ 3249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.01 End Date: 2019.08.02

Last Calib.: 2019.08.02

Start Time: 21:49:01 End Time: 03:15:10

Time On Btm:

Time Off Btm:

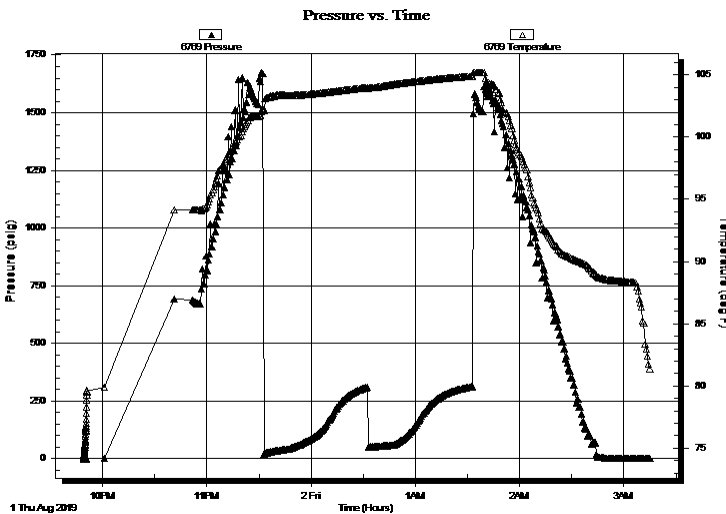
TEST COMMENT: IF-15-BOB 12 mins 10 secs total build of 14.7"

ISI-45- No blow back

FF-15- Built to 6"

FSI-45- No blow back

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
64.00	MCO 40%M 60%O	0.31
64.00	CO 100%O	0.31
0.00	GIP 190'	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65805

DST#: 4

ATTN: Josh Austin

Test Start: 2019.08.01 @ 21:49:00

Tool Information

Drill Pipe:	Length: 3027.00 ft	Diameter: 3.80 inches	Volume: 42.46 bbl	Tool Weight: 2500.00 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 43.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3248.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3229.00	
Shut In Tool	5.00			3234.00	
Hydraulic tool	5.00			3239.00	
Packer	5.00			3244.00	20.00 Bottom Of Top Packer
Packer	4.00			3248.00	
Stubb	1.00			3249.00	
Recorder	0.00	6772	Inside	3249.00	
Recorder	0.00	6769	Outside	3249.00	
Perforations	6.00			3255.00	
Bullnose	3.00			3258.00	10.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

29-19s-9w

101 S. Main
Stafford KS 67578

Wallace #11-29

Job Ticket: 65805

DST#: 4

ATTN: Josh Austin

Test Start: 2019.08.01 @ 21:49:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	MCO 40%M 60%O	0.315
64.00	CO 100%O	0.315
0.00	GIP 190'	0.000

Total Length: 128.00 ft Total Volume: 0.630 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

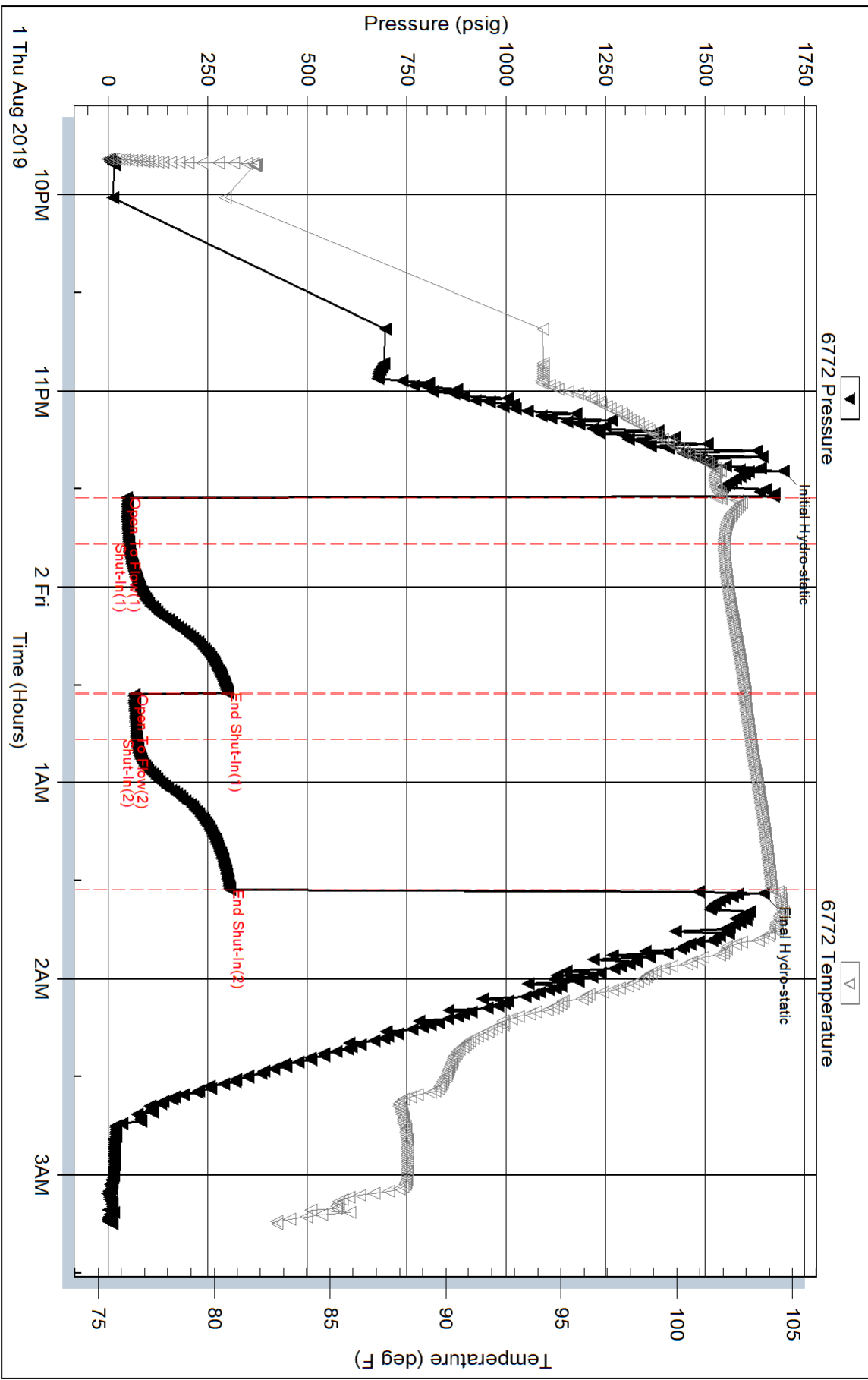
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

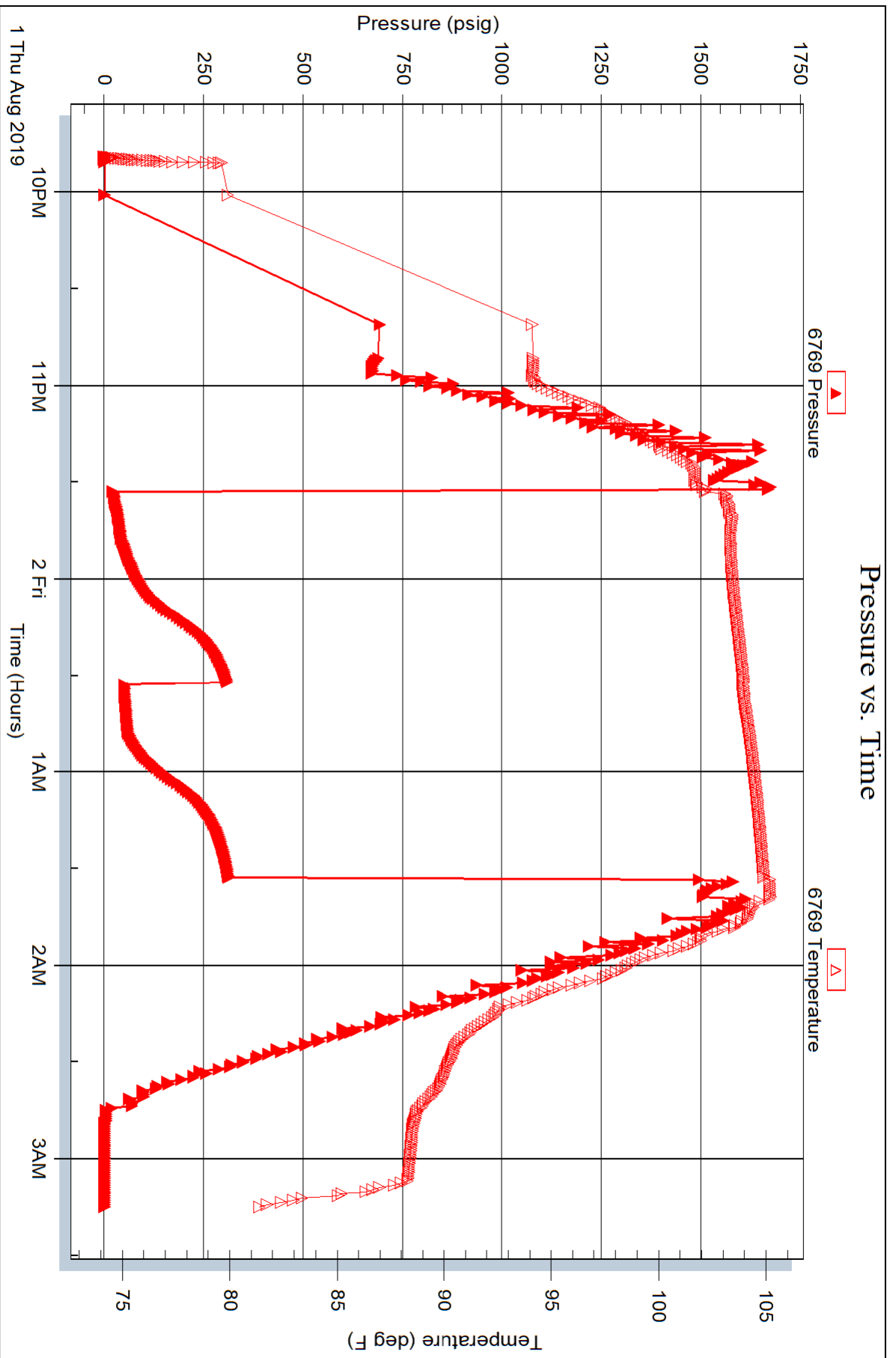


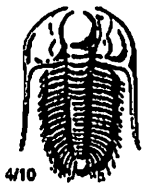
Serial #: 6769

Outside Rama Operating Co Inc

Wallace #11-29

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65802

NO.

Well Name & No. Wallace 11-29 Test No. 1 Date 7-30-2019
 Company Rama Operating Co Inc Elevation 1727 KB 1715 GL
 Address 101 S. Main St Stafford KS 67578+1429
 Co. Rep / Geo. Josh Austin Rig Sterling Rig 4
 Location: Sec. 29 Twp 19S Rge. 9W Co. Rice State KS

Interval Tested 2937-2954 Zone Tested LKC 'B' zone
 Anchor Length 17' Drill Pipe Run 2708 Mud Wt. 8.9
 Top Packer Depth 2932 Drill Collars Run 215 Vis 62
 Bottom Packer Depth 2937 Wt. Pipe Run WL 6.4
 Total Depth 2954 Chlorides 4,700 ppm System LCM 2#

Blow Description IF - built to 11.8"
ISI - no blow back
FF - built to 3"
FSD - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>50'</u>	<u>DSM</u>			<u>100%</u>	
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

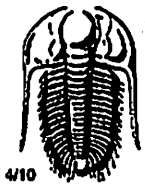
Rec Total 50' BHT 104 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1479 Test 1200 T-On Location 9:33 PM
 (B) First Initial Flow 52 Jars T-Started 10:21
 (C) First Final Flow 50 Safety Joint T-Open 12:26 AM
 (D) Initial Shut-In 70 Circ Sub T-Pulled 2:56
 (E) Second Initial Flow 49 Hourly Standby T-Out 4:45
 (F) Second Final Flow 48 Mileage 46 m. RT ⁴⁶ Comments
 (G) Final Shut-In 53 Sampler
 (H) Final Hydrostatic 1434 Straddle EM Tool

Initial Open 30 Shale Packer Ruined Shale Packer
 Initial Shut-In 45 Extra Packer Ruined Packer
 Final Flow 30 Extra Recorder Extra Copies
 Final Shut-In 45 Day Standby Sub Total 0
 Accessibility Total 1246
 Sub Total 1246 MP/DST Disc't

Approved By Our Representative Benny Mulligan

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 its 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65803

NO.

Well Name & No. Wallace 11-29 Test No. 2 Date 8-1-2019
 Company Rama Operating Co Inc Elevation 1727 KB 1715 GL
 Address 101 S. Main St Stafford KS 67578+1429
 Co. Rep / Geo. Josh Austin Rig Sterling Rig 4
 Location: Sec. 29 Twp 19S Rge. 9W Co. Rice State KS

Interval Tested 3190-3240 Zone Tested Arkuckle
 Anchor Length 50' Drill Pipe Run 2963 Mud Wt. 9.2
 Top Packer Depth 3185 Drill Collars Run 215 Vis 47
 Bottom Packer Depth 3190 Wt. Pipe Run --- WL 9.2
 Total Depth 3240 Chlorides 8,100 ppm System LCM #
 Blow Description IF - built to 1.8"
ISI - no blow back
FF - was dead
FSE - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>O.C.M.</u>		<u>20</u>	<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1628</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>12:10 AM</u>
(B) First Initial Flow <u>56</u>	<input type="checkbox"/> Jars _____	T-Started <u>12:47</u>
(C) First Final Flow <u>48</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>2:34</u>
(D) Initial Shut-In <u>69</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>4:34</u>
(E) Second Initial Flow <u>49</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>6:22</u>
(F) Second Final Flow <u>91</u>	<input checked="" type="checkbox"/> Mileage <u>46 mi RT 46</u>	Comments _____
(G) Final Shut-In <u>53</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1560</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> EM Tool _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1246</u>
	Sub Total <u>1246</u>	MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

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 its 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65804

NO.

Well Name & No. Wallace 11-29 Test No. 3 Date 8-1-2019
 Company Rama Operating Co Inc Elevation 1727 KB 1715 GL
 Address 1015. main st Stafford KS 67578+1429
 Co. Rep / Geo. Josh Austin Rig Sterling Rig 4
 Location: Sec. 29 Twp 19S Rge. 9w Co. Rice State KS

Interval Tested 3240-3248 Zone Tested Arbuckle
 Anchor Length 8' Drill Pipe Run 3027 Mud Wt. 9.1
 Top Packer Depth 3235 Drill Collars Run 215 Vis 62
 Bottom Packer Depth 3240 Wt. Pipe Run --- WL 8.4
 Total Depth 3248 Chlorides 6300 ppm System LCM 3#

Blow Description IF - built to 6.8"
EST - no blow back
FF - built to 9"
FSTI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>6H</u>	<u>610.0 M.</u>	<u>20</u>	<u>30</u>	<u>50</u>	
<u>6H</u>	<u>650.0 M.</u>	<u>20</u>	<u>10</u>	<u>70</u>	
Rec	Feet of <u>190' GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

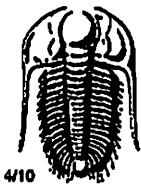
Rec Total 128' BHT 105 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1721 Test 1200 T-On Location 11:05 AM
 (B) First Initial Flow 50 Jars _____ T-Started 11:20
 (C) First Final Flow 76 Safety Joint _____ T-Open 12:42 PM
 (D) Initial Shut-In 267 Circ Sub _____ T-Pulled 4:49
 (E) Second Initial Flow 76 Hourly Standby _____ T-Out 5:49
 (F) Second Final Flow 77 Mileage 46mi RT 46 Comments damaged a packer rubber
 (G) Final Shut-In 244 Sampler _____
 (H) Final Hydrostatic 1684 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 45 Day Standby _____
 Sub Total 1246 Accessibility _____
 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

Tribolite 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 its 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65805

NO.

Well Name & No. Wallace 11-29 Test No. 4 Date 8-1-2019
 Company Rama Operating Co Inc Elevation 1727 KB 1715 GL
 Address 101 S. main St Stafford KS 67578+1429
 Co. Rep / Geo. Josh Austin Rig Sterling Rig 4
 Location: Sec. 29 Twp 19s Rge. 9w Co. Rice State KS

Interval Tested 3248-3258 Zone Tested Arbuckle
 Anchor Length 10' Drill Pipe Run 3027 Mud Wt. 9.1
 Top Packer Depth 3243 Drill Collars Run 215 Vis 82
 Bottom Packer Depth 3248 Wt. Pipe Run _____ WL 8.4
 Total Depth 3258 Chlorides 6300 ppm System LCM 3#

Blow Description IF-BOB 12 mins 10sec total build of 14.7"
IST- no blow back
FF- built to 6"
FSD- no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>64</u>	<u>C.O.</u>	<u>100</u>			
<u>64</u>	<u>M.C.O.</u>	<u>60</u>		<u>40</u>	
	<u>GIP 190'</u>				

Rec Total 128' BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1695</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>9:30 PM</u>
(B) First Initial Flow <u>46</u>	<input type="checkbox"/> Jars _____	T-Started <u>9:49</u>
(C) First Final Flow <u>52</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>11:32</u>
(D) Initial Shut-In <u>300</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:32 AM</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:15</u>
(F) Second Final Flow <u>71</u>	<input checked="" type="checkbox"/> Mileage <u>46mi Rt 46</u>	Comments <u>Loaded tools after test</u>
(G) Final Shut-In <u>306</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1645</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> EM Tool _____

Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1246</u>
	Sub Total <u>1246</u>	MP/DST Disc't _____

Approved By [Signature] Our Representative Benmy Mulligan

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