KOLAR Document ID: 1373218

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 # 34848
Name: Pollok Energy, LLC
Address 1: 501 N. 4TH
Address 2: PO BOX 106
City: PURCELL State: OK Zip: 73080 + ____
Contact Person: Maggie Fredrickson
Phone: (405) 527-6038
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Bill Busch
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 #: ____

10/30/2017	11/09/2017	11/10/2017
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-095-22311-00-00
Spot Description: ____
W2 - E2 - NW - NE Sec. 17 Twp. 29 S. R. 8 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
1880 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: Kingman
Lease Name: BOCK Well #: 1-17
Field Name: Ziegler
Producing Formation: Mississippian
Elevation: Ground: 1662 Kelly Bushing: 1663
Total Vertical Depth: 4600 Plug Back Total Depth: ____
Amount of Surface Pipe Set and Cemented at: 264 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: 6000 ppm Fluid volume: 80 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: 11/29/2017
☑ **Confidential Release Date:** 11/29/2019
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 11/29/2017

Operator Name: Pollok Energy, LLC Lease Name: BOCK Well #: 1-17

Sec. 17 Twp. 29 S. R. 8 ☐ East ☑ West County: Kingman

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
Base Heebner	3264	1603
Top Lansing	3481	1818
Base Hushpuckney	3907	2244
Top Cherokee	4104	2441
Top Mississippian	4189	2526
Viola	4482	2819

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	24	264	60/40 poz	175	3%cc, 2% gel, and 1/4# cell flake

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	Pollok Energy, LLC
Well Name	BOCK 1-17
Doc ID	1373218

All Electric Logs Run

Mud Log
Induction Log
Density Neutron Log
Microlog

Form	ACO1 - Well Completion
Operator	Pollok Energy, LLC
Well Name	BOCK 1-17
Doc ID	1373218

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	24	264	60/40 poz	175	3%cc, 2% gel, and 1/4# cell flake

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:52:23
Time Test Ended: 08:09:38

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 4133.00 ft (KB) To 4203.00 ft (KB) (TVD)
Total Depth: 4203.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

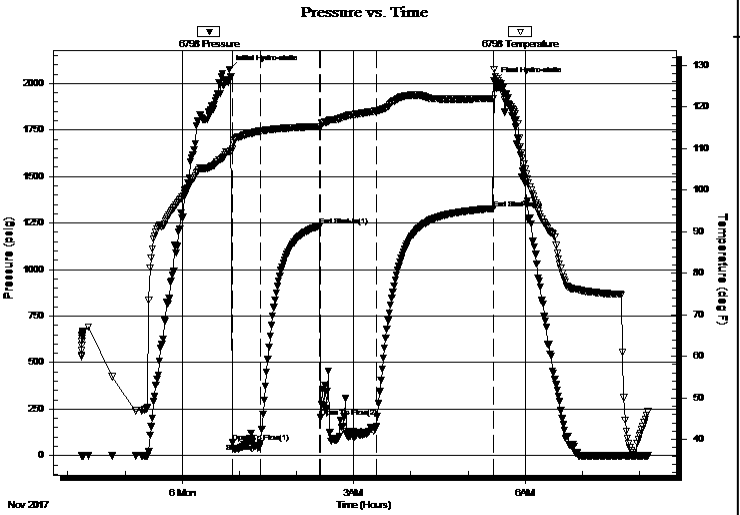
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 158.84 psig @ 4134.00 ft (KB)
Start Date: 2017.11.05 End Date: 2017.11.06
Start Time: 22:14:24 End Time: 08:09:38

Capacity: 8000.00 psig
Last Calib.: 2017.11.06
Time On Btm: 2017.11.06 @ 00:49:53
Time Off Btm: 2017.11.06 @ 05:27:23

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
ISI: Blow Back Built to 6 inches
FF: Strong Blow , BOB in 30 seconds, GTS in 1 minute, Caught Sample & Guaged
FSI: Blow Back Built to 4 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.51	109.22	Initial Hydro-static
3	69.22	109.83	Open To Flow (1)
33	65.08	114.20	Shut-In(1)
94	1232.77	115.32	End Shut-In(1)
95	204.24	115.08	Open To Flow (2)
154	158.84	119.01	Shut-In(2)
277	1327.96	121.95	End Shut-In(2)
278	2011.91	129.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
180.00	GWCM 5%G 20%W 75%M	2.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	4.76
Last Gas Rate	0.13	14.00	5.24
Max. Gas Rate	0.13	14.00	5.24

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:52:23
Time Test Ended: 08:09:38

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

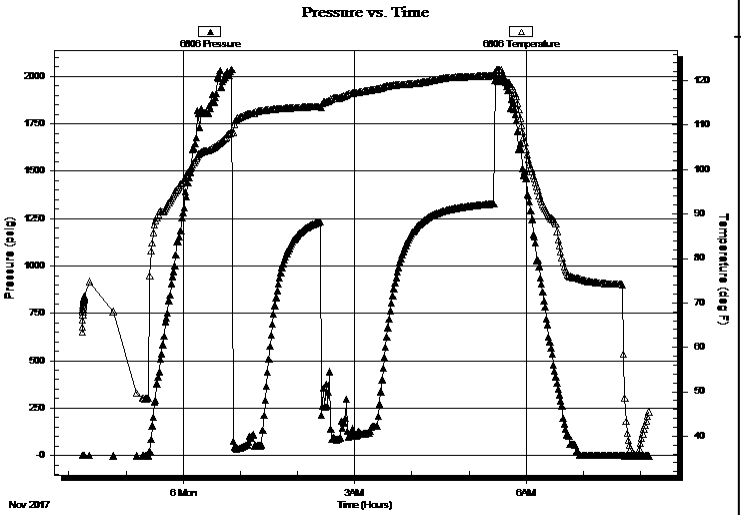
Interval: 4133.00 ft (KB) To 4203.00 ft (KB) (TVD)
Total Depth: 4203.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6806 **Outside**
Press@RunDepth: psig @ 4134.00 ft (KB)
Start Date: 2017.11.05 End Date: 2017.11.06
Start Time: 22:14:24 End Time: 08:09:38

Capacity: 8000.00 psig
Last Calib.: 2017.11.06
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
ISI: Blow Back Built to 6 inches
FF: Strong Blow , BOB in 30 seconds, GTS in 1 minute, Caught Sample & Guaged
FSI: Blow Back Built to 4 inches



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
180.00	GWCM 5%G 20%W 75%M	2.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	4.76
Last Gas Rate	0.13	14.00	5.24
Max. Gas Rate	0.13	14.00	5.24

DRILL STEM TEST REPORT

FLUID SUMMARY

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

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:	82000 ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
180.00	GWCM 5%G 20%W 75%M	2.525

Total Length: 180.00 ft Total Volume: 2.525 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW was .2 @ 32 degrees
Sampler Data: 100 ml WCM 80%M 20%W
7 CU FT Gas @ 10PSI

DRILL STEM TEST REPORT

GAS RATES

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

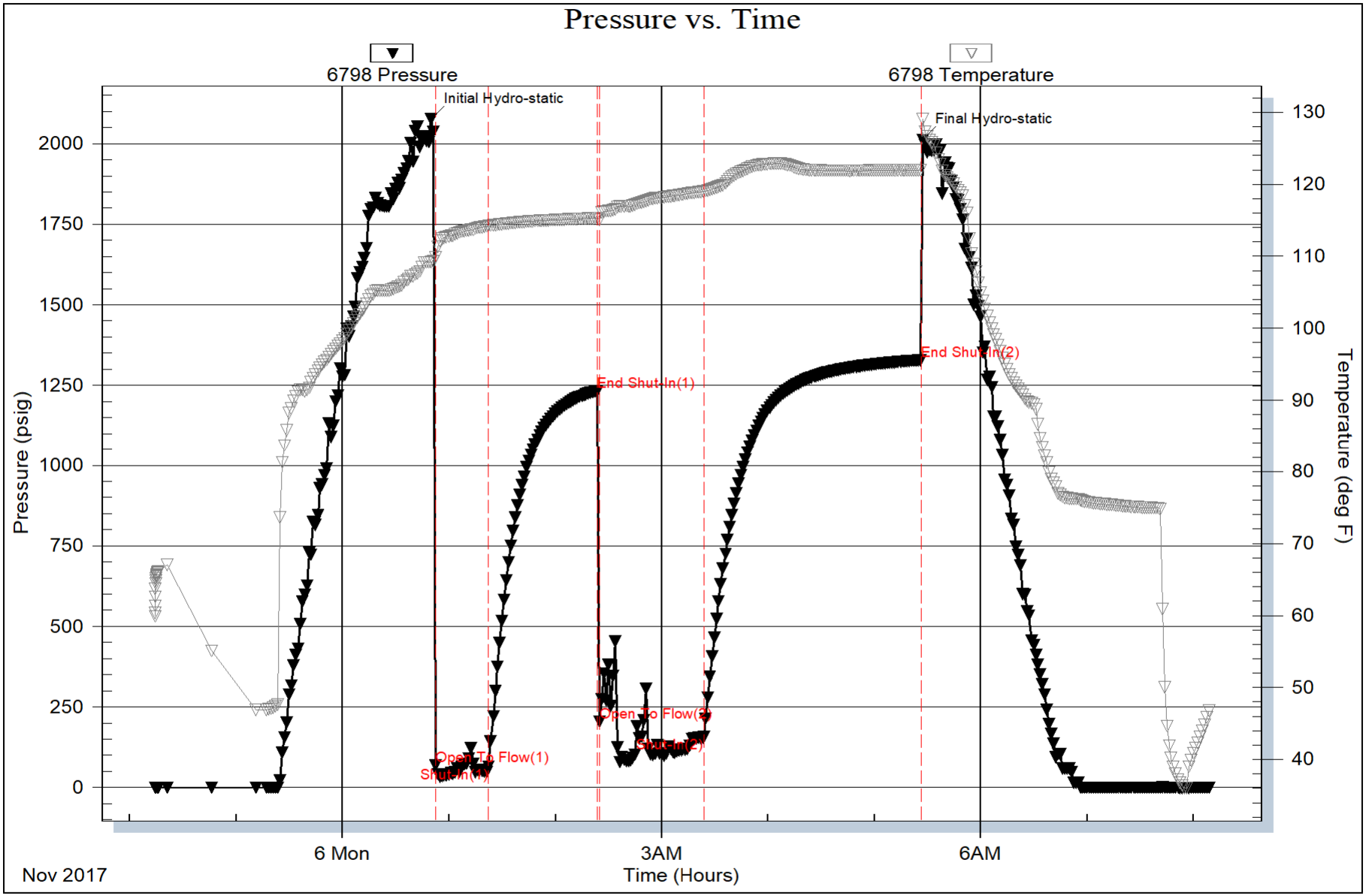
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

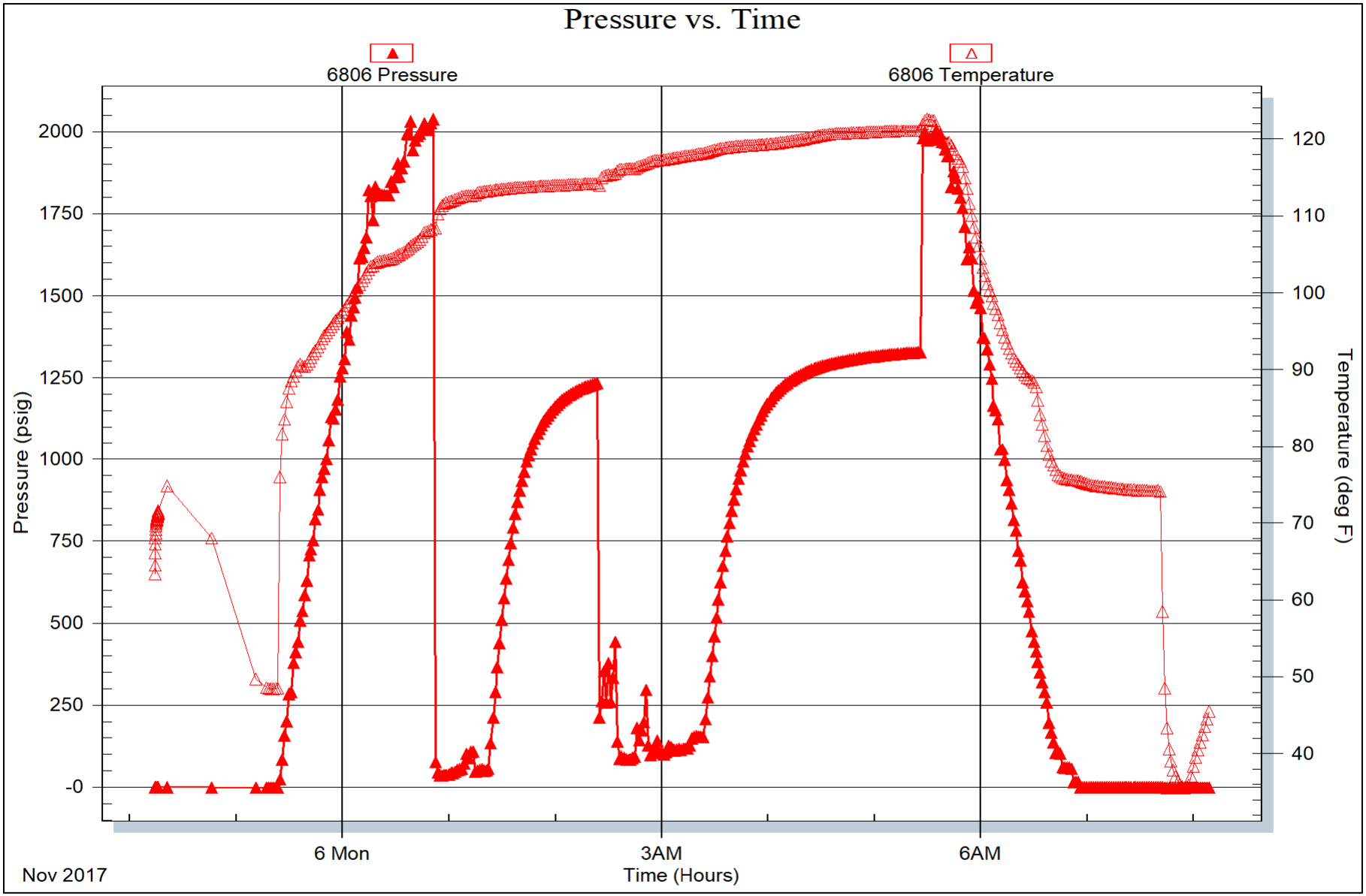
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	3.00	4.76
2	20	0.13	4.00	1.50
2	30	0.13	7.00	2.62
2	40	0.13	10.00	3.74
2	50	0.13	12.00	4.49
2	60	0.13	14.00	5.24

Serial #: 6798 **Inside** Pollok Energy 1-17 Bock DST Test Number: 1



Trilobite Testing, Inc Ref. No: 57849 Printed: 2017.11.06 @ 08:38:10

Serial #: 6806 **Outside** Pollok Energy 1-17 Bock DST Test Number: 1



Trilobite Testing, Inc Ref. No: 57849 Printed: 2017.11.06 @ 08:38:10

DRILL STEM TEST REPORT

Prepared For: **Pollok Energy**

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

Bock #1-17

17-28S-8W Kingman,KS

Start Date: 2017.11.05 @ 22:14:23

End Date: 2017.11.06 @ 08:09:38

Job Ticket #: 57849 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.11.09 @ 10:49:37

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:52:23
Time Test Ended: 08:09:38

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 4133.00 ft (KB) To 4203.00 ft (KB) (TVD)
Total Depth: 4203.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

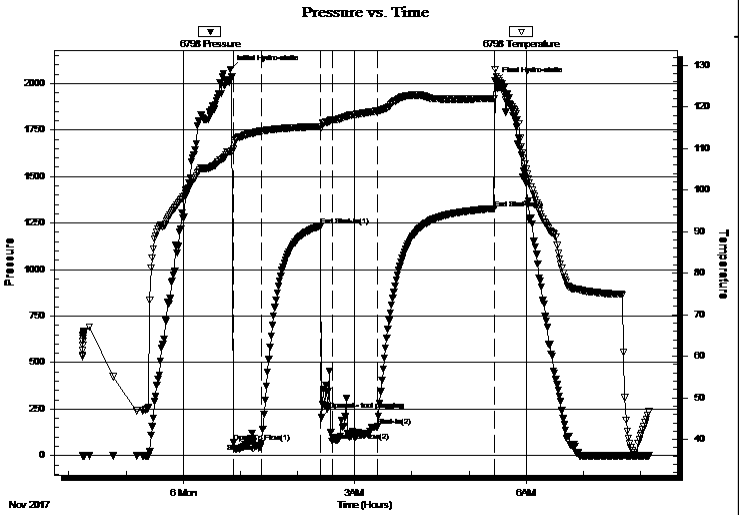
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 158.84 psig @ 4134.00 ft (KB)
Start Date: 2017.11.05 End Date: 2017.11.06
Start Time: 22:14:24 End Time: 08:09:38

Capacity: 8000.00 psig
Last Calib.: 2017.11.06
Time On Btm: 2017.11.06 @ 00:49:53
Time Off Btm: 2017.11.06 @ 05:27:23

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
ISI: Blow Back Built to 6"
FF: Strong Blow , BOB in 30 seconds, GTS in 1 minute, Caught Sample & Gauged
FSI: Blow Back Built to 4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.51	109.22	Initial Hydro-static
3	69.22	109.83	Open To Flow (1)
33	65.08	114.20	Shut-In(1)
94	1232.77	115.32	End Shut-In(1)
95	204.24	115.08	Opened - tool plugging
107	78.96	116.93	Open To Flow (2)
154	158.84	119.01	Shut-In(2)
277	1327.96	121.95	End Shut-In(2)
278	2011.91	129.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3953 GIP	0.00
180.00	GWCM 5%G 20%W 75%M	2.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	4.76
Last Gas Rate	0.13	14.00	5.24
Max. Gas Rate	0.13	14.00	5.24

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:52:23
Time Test Ended: 08:09:38

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 4133.00 ft (KB) To 4203.00 ft (KB) (TVD)
Total Depth: 4203.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

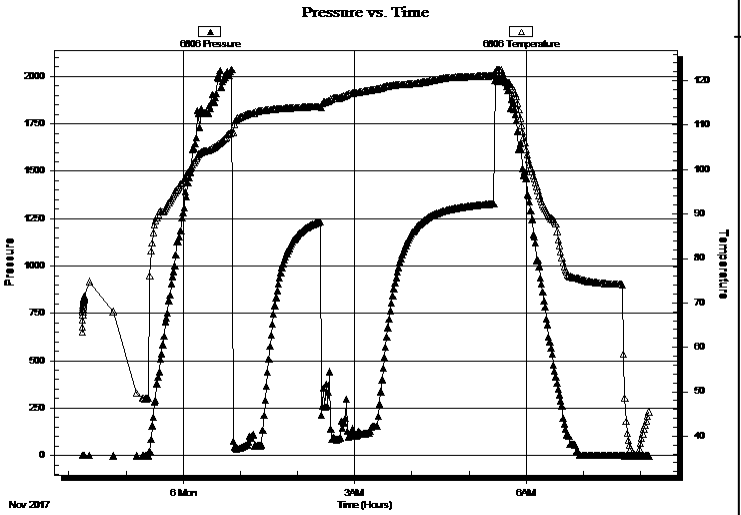
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6806 **Outside**

Press@RunDepth: psig @ 4134.00 ft (KB)
Start Date: 2017.11.05 End Date: 2017.11.06
Start Time: 22:14:24 End Time: 08:09:38

Capacity: 8000.00 psig
Last Calib.: 2017.11.06
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
ISI: Blow Back Built to 6"
FF: Strong Blow , BOB in 30 seconds, GTS in 1 minute, Caught Sample & Gauged
FSI: Blow Back Built to 4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3953 GIP	0.00
180.00	GWCM 5%G 20%W 75%M	2.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	4.76
Last Gas Rate	0.13	14.00	5.24
Max. Gas Rate	0.13	14.00	5.24

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

Tool Information

Drill Pipe:	Length:	4133.00 ft	Diameter:	3.80 inches	Volume:	57.98 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	57.98 bbl	

Drill Pipe Above KB:	28.00 ft
Depth to Top Packer:	4133.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	70.00 ft
Tool Length:	98.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2100.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		80000.00 lb
Tool Chased		ft
String Weight:	Initial	64000.00 lb
	Final	65000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4110.00		
Sampler	2.00			4112.00		
Hydraulic tool	5.00			4117.00		
Jars	5.00			4122.00		
Safety Joint	2.00			4124.00		
Packer	5.00			4129.00	28.00	Bottom Of Top Packer
Packer	4.00			4133.00		
Stubb	1.00			4134.00		
Recorder	0.00	6798	Inside	4134.00		
Recorder	0.00	6806	Outside	4134.00		
Perforations	3.00			4137.00		
Change Over Sub	1.00			4138.00		
Drill Pipe	31.00			4169.00		
Change Over Sub	2.00			4171.00		
perforations	29.00			4200.00		
Bullnose	3.00			4203.00	70.00	Bottom Packers & Anchor
Total Tool Length:	**98.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

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:	82000 ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.37 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3953 GIP	0.000
180.00	GWCM 5%G 20%W 75%M	2.525

Total Length: 180.00 ft Total Volume: 2.525 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW was .2 @ 32 degrees
Sampler Data: 100 ml WCM 80%M 20%W
7 CU FT Gas @ 10PSI

DRILL STEM TEST REPORT

GAS RATES

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57849 **DST#: 1**

Test Start: 2017.11.05 @ 22:14:23

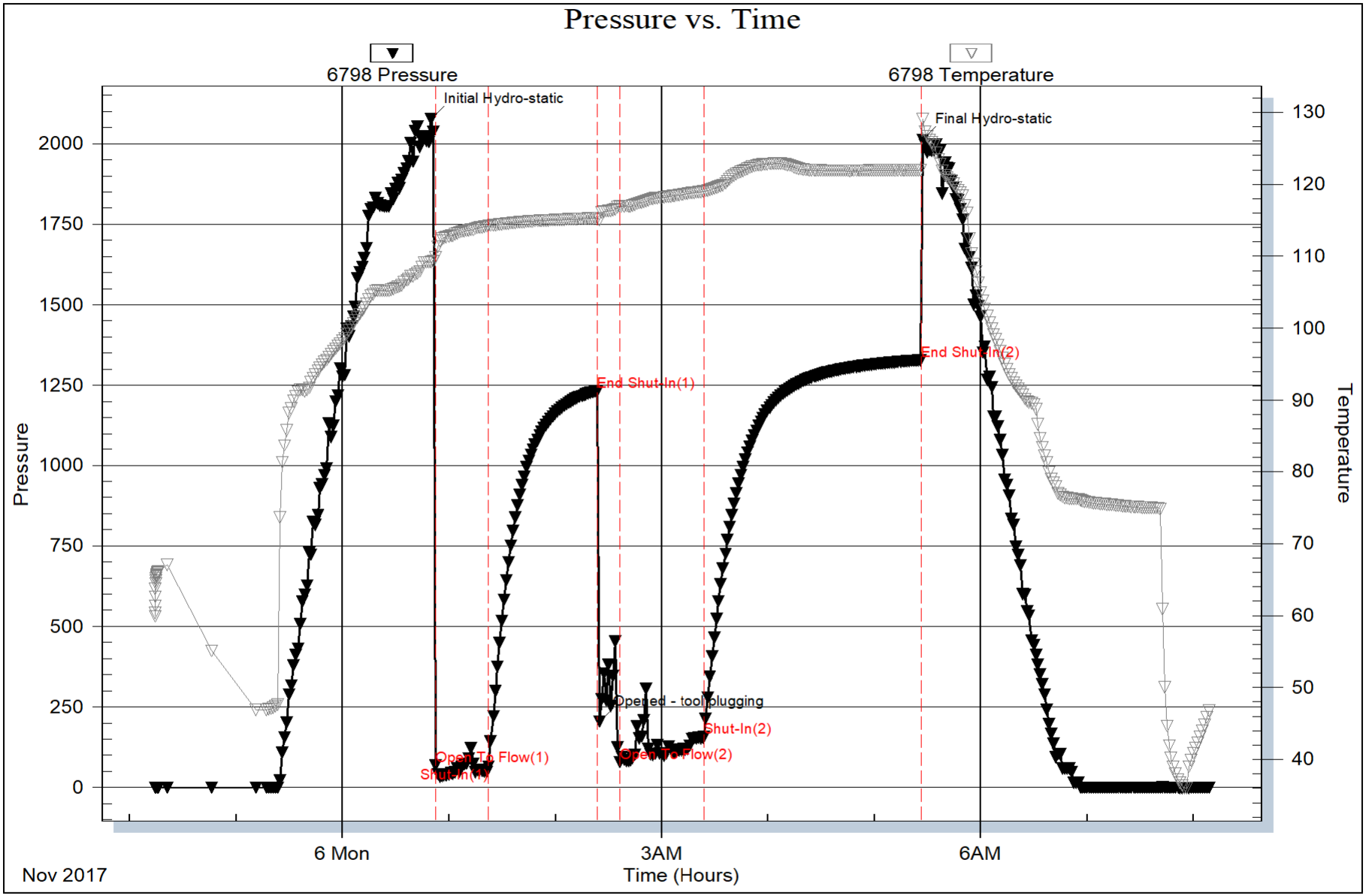
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

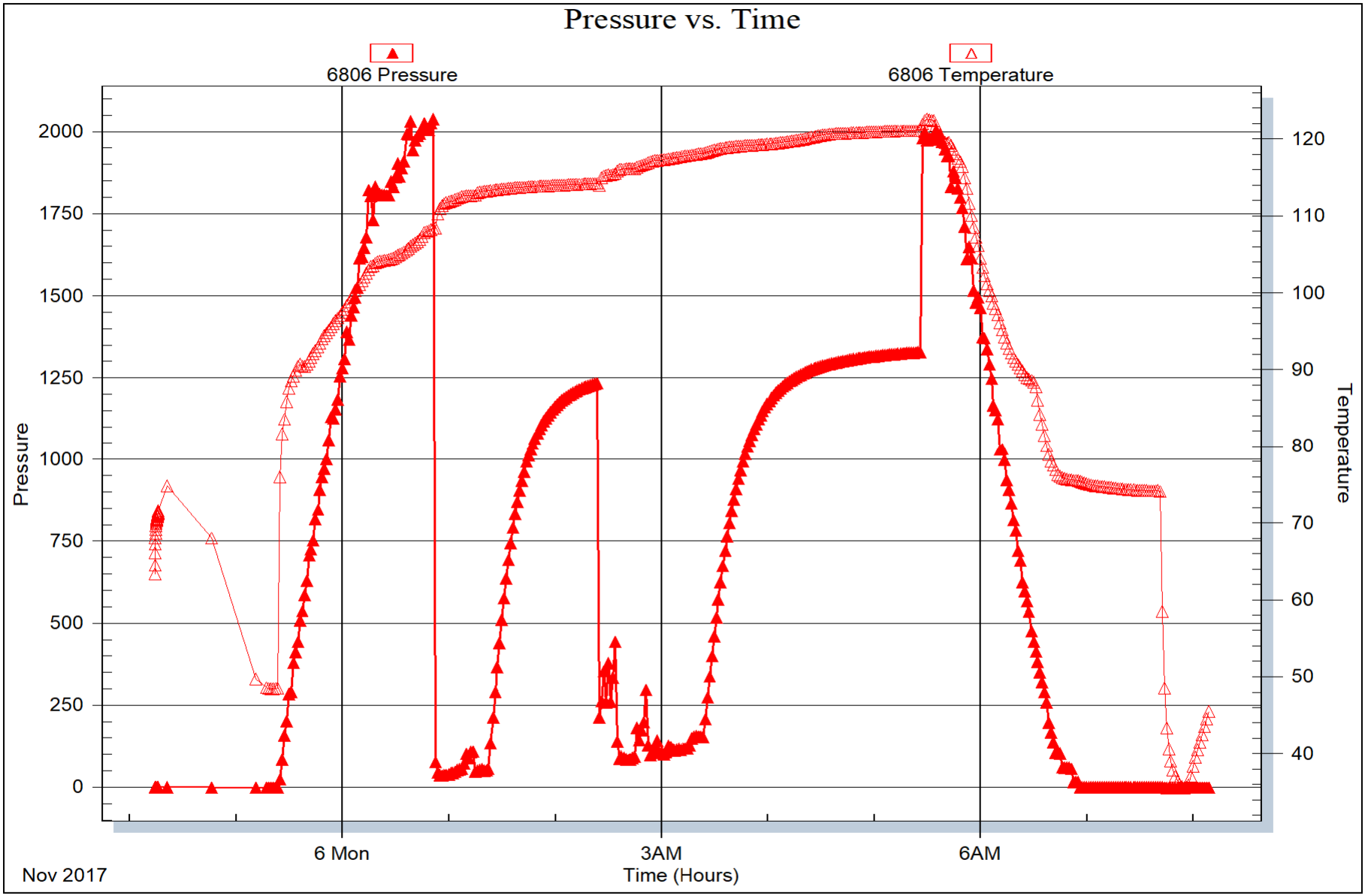
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	3.00	4.76
2	20	0.13	4.00	1.50
2	30	0.13	7.00	2.62
2	40	0.13	10.00	3.74
2	50	0.13	12.00	4.49
2	60	0.13	14.00	5.24

Serial #: 6798 **Inside** Pollok Energy Bock #1-17 DST Test Number: 1

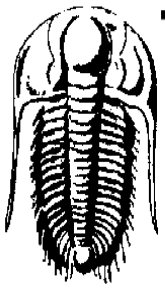


Trilobite Testing, Inc Ref. No: 57849 Printed: 2017.11.09 @ 10:49:39

Serial #: 6806 **Outside** Pollok Energy Bock #1-17 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 57849 Printed: 2017.11.09 @ 10:49:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pollok Energy**

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

Bock #1-17

17-28S-8W Kingman,KS

Start Date: 2017.11.06 @ 14:37:01

End Date: 2017.11.06 @ 23:10:16

Job Ticket #: 57850 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.11.09 @ 10:52:08

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57850 **DST#: 2**

Test Start: 2017.11.06 @ 14:37:01

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:18:16
Time Test Ended: 23:10:16

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4205.00 ft (KB) To 4244.00 ft (KB) (TVD)
Total Depth: 4244.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

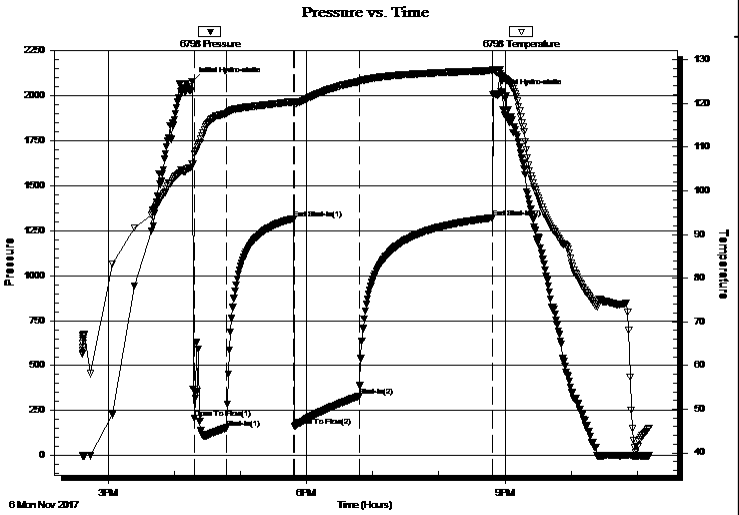
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 331.90 psig @ 4206.00 ft (KB)
Start Date: 2017.11.06 End Date: 2017.11.06
Start Time: 14:37:02 End Time: 23:10:16

Capacity: 8000.00 psig
Last Calib.: 2017.11.06
Time On Btm: 2017.11.06 @ 16:16:16
Time Off Btm: 2017.11.06 @ 20:50:16

TEST COMMENT: IF: Strong Blow , BOB in 60 secods
ISI: Weak Surface Blow Back
FF: Fair Blow , BOB in 5 minutes
FSI: Weak Surface Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.63	106.03	Initial Hydro-static
2	208.72	108.46	Open To Flow (1)
31	154.79	117.69	Shut-In(1)
92	1317.49	120.36	End Shut-In(1)
93	162.33	120.03	Open To Flow (2)
152	331.90	124.98	Shut-In(2)
272	1321.20	127.46	End Shut-In(2)
274	2014.14	127.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
441.00	Water	6.19
189.00	GOMCW 5%G 5%O 30%M 60%W	2.65
55.00	SGCM 2%G 98%M	0.77

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57850 **DST#: 2**

Test Start: 2017.11.06 @ 14:37:01

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:18:16
Time Test Ended: 23:10:16

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4205.00 ft (KB) To 4244.00 ft (KB) (TVD)
Total Depth: 4244.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

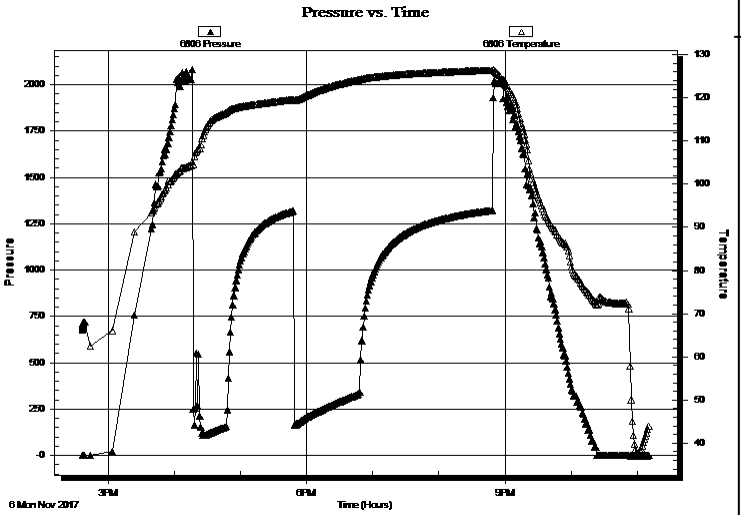
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6806 **Outside**

Press@RunDepth: psig @ 4206.00 ft (KB)
Start Date: 2017.11.06 End Date: 2017.11.06
Start Time: 14:37:02 End Time: 23:10:31

Capacity: 8000.00 psig
Last Calib.: 2017.11.06
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 60 secods
ISI: Weak Surface Blow Back
FF: Fair Blow , BOB in 5 minutes
FSI: Weak Surface Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
441.00	Water	6.19
189.00	GOMCW 5%G 5%O 30%M 60%W	2.65
55.00	SGCM 2%G 98%M	0.77

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57850 **DST#: 2**

Test Start: 2017.11.06 @ 14:37:01

Tool Information

Drill Pipe:	Length:	4195.00 ft	Diameter:	3.80	inches	Volume:	58.84	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	58.84	bbl	

Drill Pipe Above KB:	18.00 ft
Depth to Top Packer:	4205.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	40.00 ft
Tool Length:	68.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2100.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		70000.00 lb
Tool Chased		ft
String Weight:	Initial	64000.00 lb
	Final	66000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4182.00		
sampler	2.00			4184.00		
Hydraulic tool	5.00			4189.00		
Jars	5.00			4194.00		
Safety Joint	2.00			4196.00		
Packer	5.00			4201.00	28.00	Bottom Of Top Packer
Packer	4.00			4205.00		
Stubb	1.00			4206.00		
Recorder	0.00	6798	Inside	4206.00		
Recorder	0.00	6806	Outside	4206.00		
Perforations	36.00			4242.00		
Bullnose	3.00			4245.00	40.00	Bottom Packers & Anchor
Total Tool Length:	**68.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 57850 **DST#: 2**

Test Start: 2017.11.06 @ 14:37:01

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:	79000 ppm
Viscosity:	69.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
441.00	Water	6.186
189.00	GOMCW 5%G 5%O 30%M 60%W	2.651
55.00	SGCM 2%G 98%M	0.772

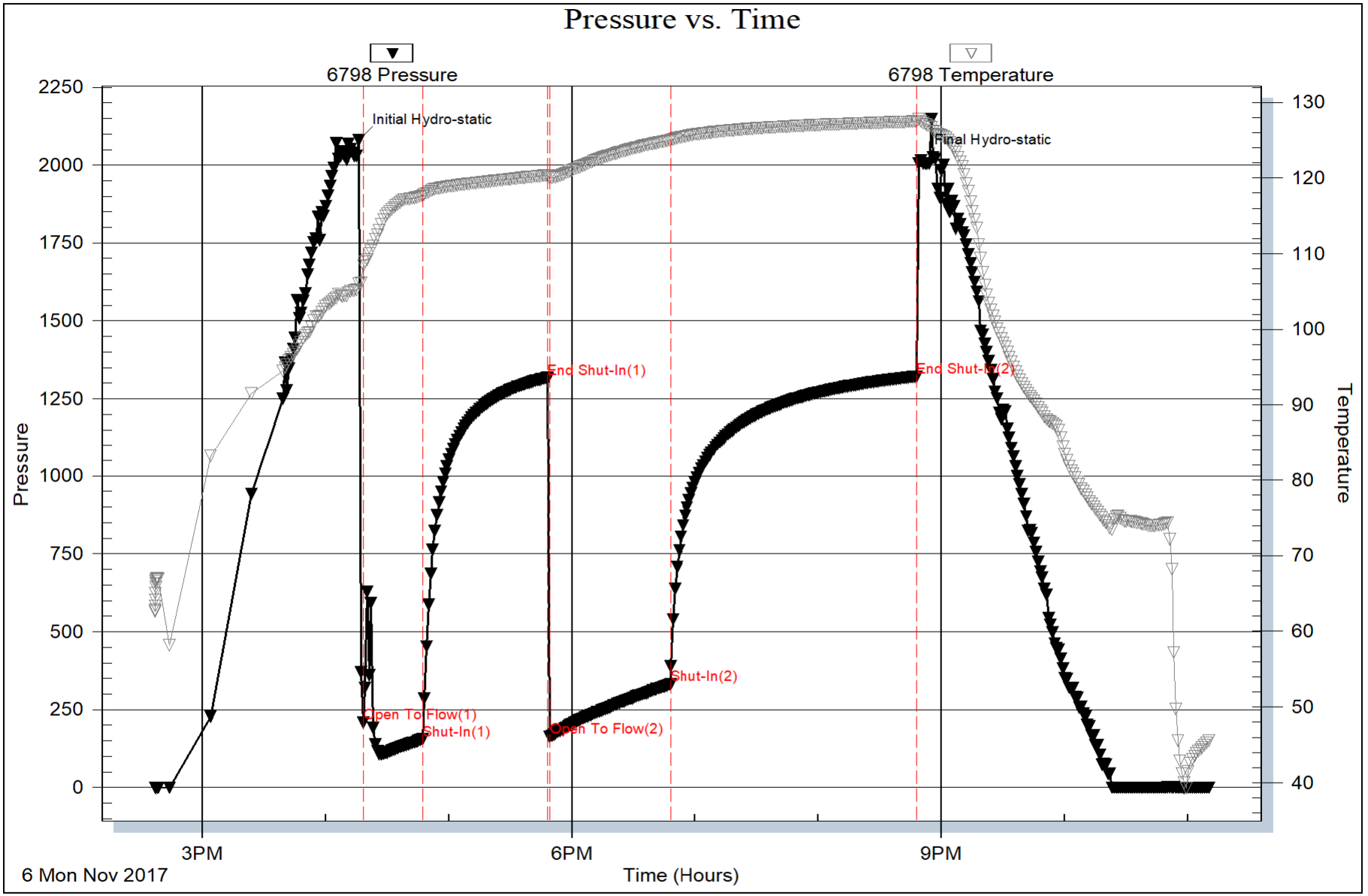
Total Length: 685.00 ft Total Volume: 9.609 bbl

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

Laboratory Name: Laboratory Location:

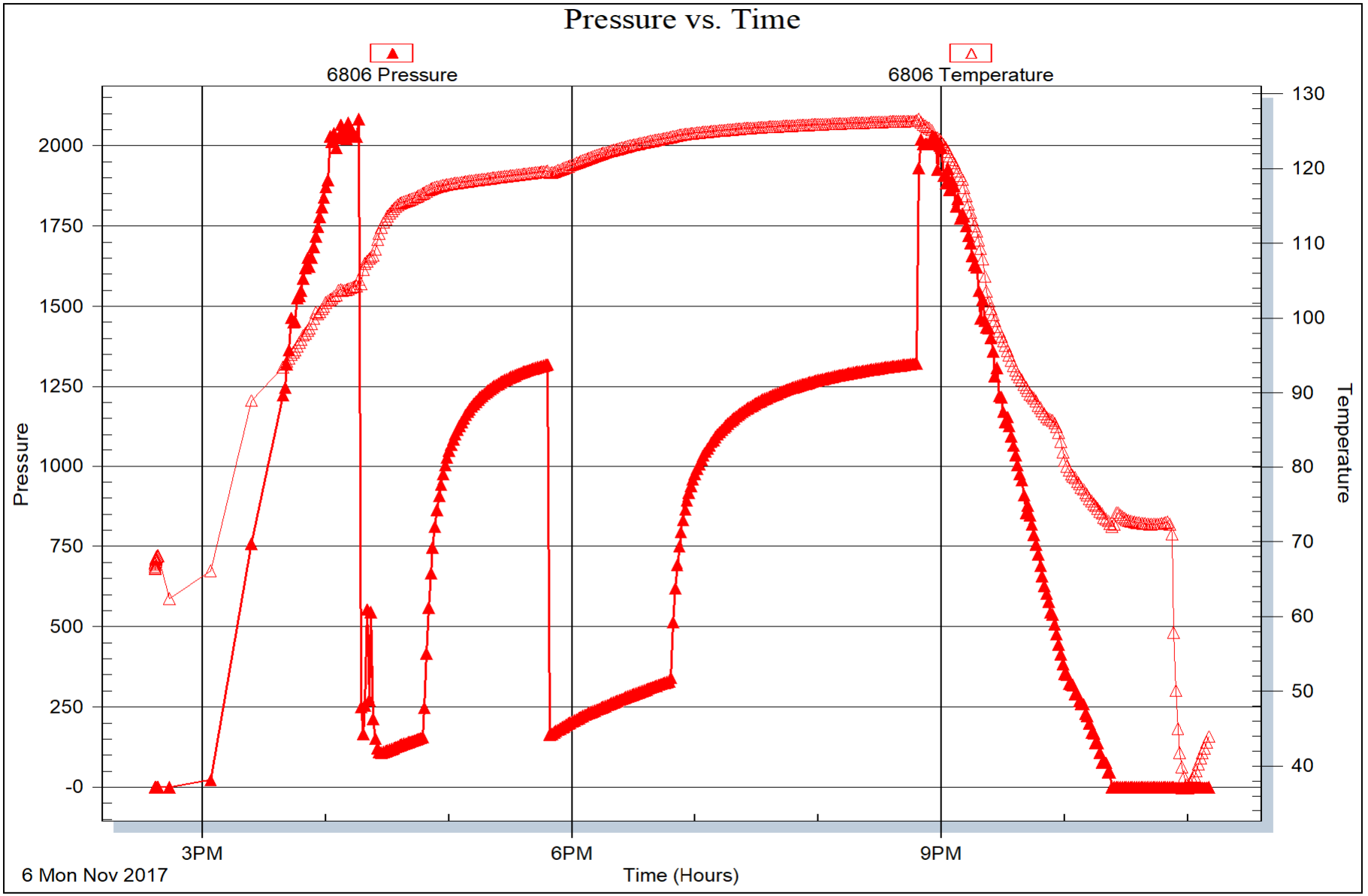
Recovery Comments: RW was .17 @ 41 degrees
Sampler Data: 2.02 CU FT Gas, 600ml Water @ 2 psi

Serial #: 6798 **Inside** Pollok Energy Bock #1-17 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 57850 Printed: 2017.11.09 @ 10:52:09

Serial #: 6806 **Outside** Pollok Energy Bock #1-17 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 57850 Printed: 2017.11.09 @ 10:52:09

DRILL STEM TEST REPORT

Prepared For: **Pollok Energy**

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

Bock #1-17

17-28S-8W Kingman,KS

Start Date: 2017.11.07 @ 08:53:33
End Date: 2017.11.07 @ 17:48:18
Job Ticket #: 63626 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.11.09 @ 10:50:55

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 63626 **DST#: 3**

Test Start: 2017.11.07 @ 08:53:33

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:03:48
Time Test Ended: 17:48:18

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4243.00 ft (KB) To 4278.00 ft (KB) (TVD)
Total Depth: 4278.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

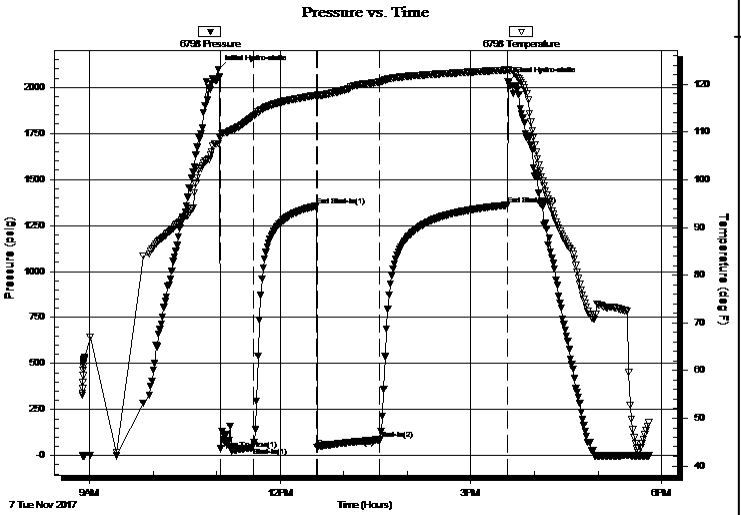
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 86.75 psig @ 4244.00 ft (KB)
Start Date: 2017.11.07 End Date: 2017.11.07
Start Time: 08:53:34 End Time: 17:48:18

Capacity: 8000.00 psig
Last Calib.: 2017.11.07
Time On Btm: 2017.11.07 @ 11:01:33
Time Off Btm: 2017.11.07 @ 15:35:03

TEST COMMENT: IF: Fair Blow , BOB in 16 minutes
ISI: No Blow Back
FF: Weak Blow , BOB in 32 minutes
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.30	107.59	Initial Hydro-static
3	36.87	108.80	Open To Flow (1)
33	43.59	113.24	Shut-In(1)
93	1355.31	117.70	End Shut-In(1)
94	46.29	117.68	Open To Flow (2)
153	86.75	120.51	Shut-In(2)
273	1360.35	123.00	End Shut-In(2)
274	2032.83	123.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCW 5%M 95%W	1.77
15.00	MOCW 10%M 20%O 70%W	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 63626 **DST#: 3**

Test Start: 2017.11.07 @ 08:53:33

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:03:48
Time Test Ended: 17:48:18

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

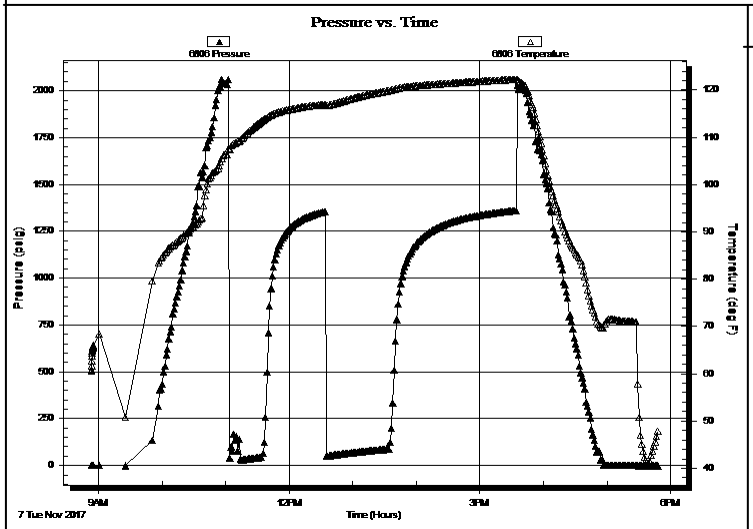
Interval: 4243.00 ft (KB) To 4278.00 ft (KB) (TVD)
Total Depth: 4278.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6806 **Outside**
Press@RunDepth: psig @ 4244.00 ft (KB)
Start Date: 2017.11.07 End Date: 2017.11.07
Start Time: 08:53:34 End Time: 17:48:18

Capacity: 8000.00 psig
Last Calib.: 2017.11.07
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 16 minutes
ISI: No Blow Back
FF: Weak Blow , BOB in 32 minutes
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCW 5%M 95%W	1.77
15.00	MOCW 10%M 20%O 70%W	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 63626 **DST#: 3**

Test Start: 2017.11.07 @ 08:53:33

Tool Information

Drill Pipe:	Length:	4239.00 ft	Diameter:	3.80 inches	Volume:	59.46 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:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	59.46 bbl	Tool Chased		ft
Drill Pipe Above KB:		24.00 ft					String Weight:	Initial	64000.00 lb
Depth to Top Packer:		4243.00 ft						Final	65000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		35.00 ft							
Tool Length:		63.00 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			4220.00		
sampler	2.00			4222.00		
Hydraulic tool	5.00			4227.00		
Jars	5.00			4232.00		
Safety Joint	2.00			4234.00		
Packer	5.00			4239.00	28.00	Bottom Of Top Packer
Packer	4.00			4243.00		
Stubb	1.00			4244.00		
Recorder	0.00	6798	Inside	4244.00		
Recorder	0.00	6806	Outside	4244.00		
Perforations	31.00			4275.00		
Bullnose	3.00			4278.00	35.00	Bottom Packers & Anchor
Total Tool Length:	**63.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman,KS

Bock #1-17

Job Ticket: 63626 **DST#: 3**

Test Start: 2017.11.07 @ 08:53:33

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:	77000 ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.36 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

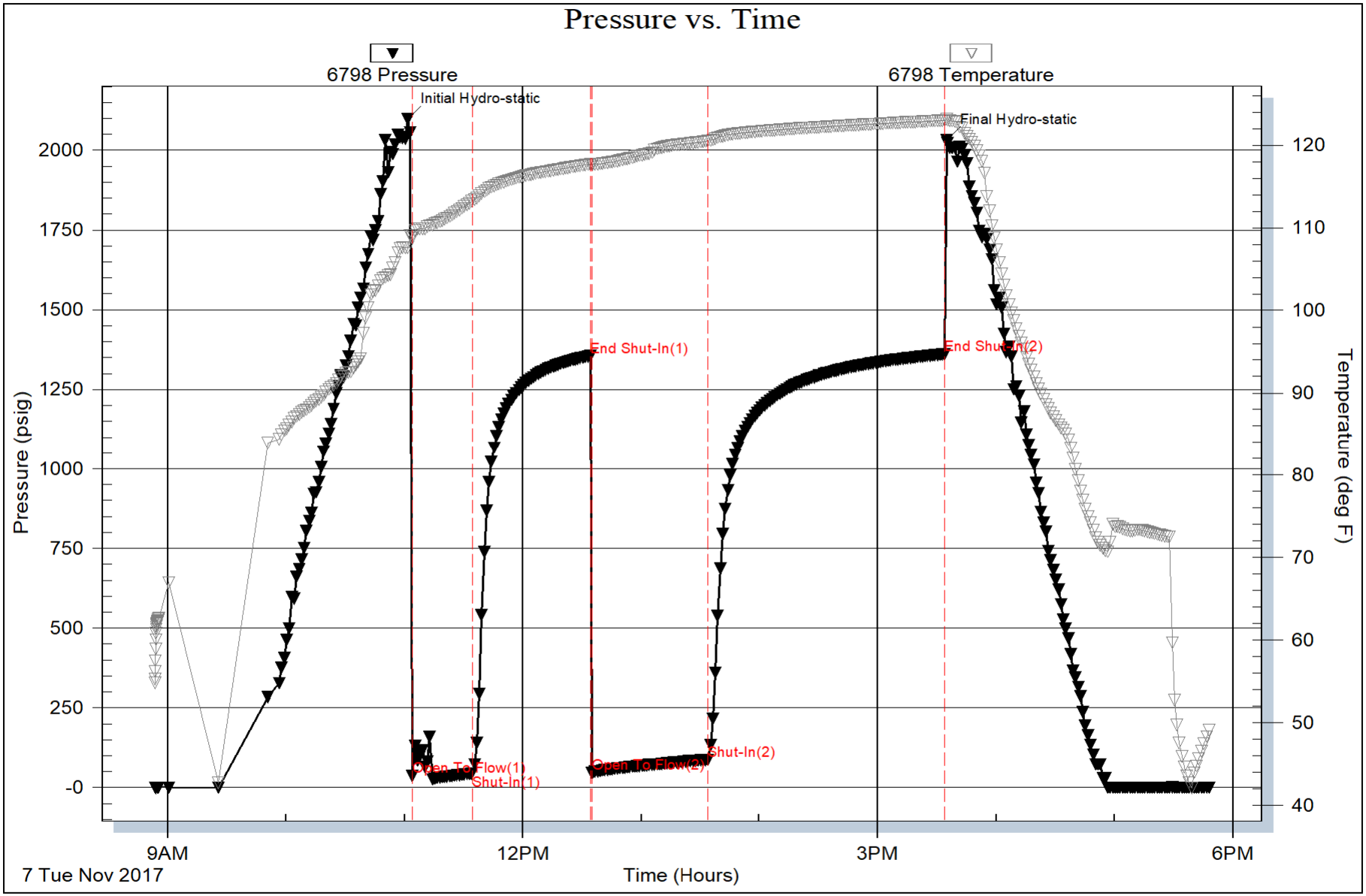
Length ft	Description	Volume bbl
126.00	MCW 5%M 95%W	1.767
15.00	MOCW 10%M 20%O 70%W	0.210

Total Length: 141.00 ft Total Volume: 1.977 bbl

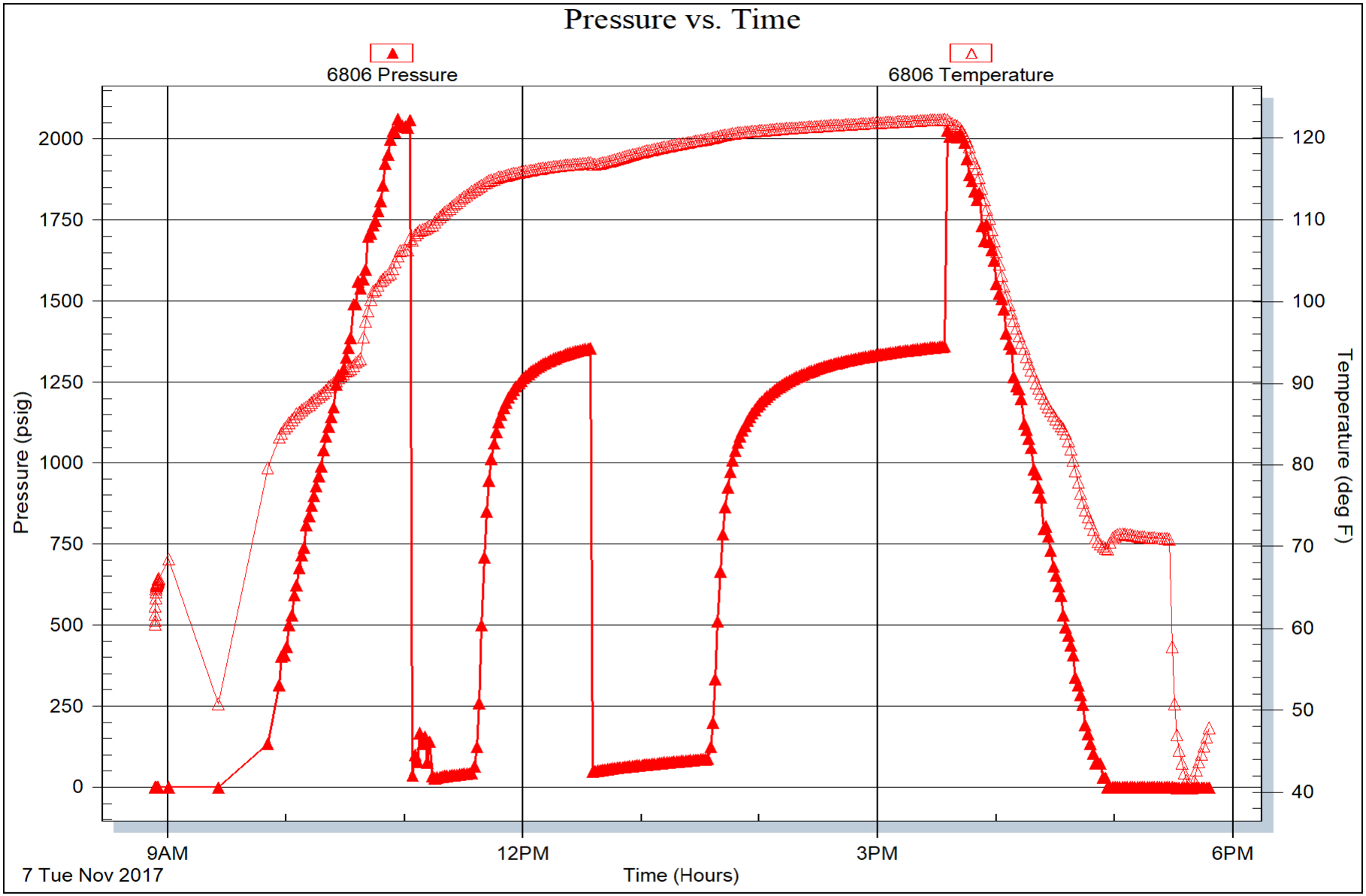
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW was .19 @ 37 degrees
Sampler Data: 200 ml Water


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2000
1750
1500
1250
1000
750
500
250
-0
120
110
100
90
80
70
60
50
40
9AM
12PM
3PM
6PM
7 Tue Nov 2017
Time (Hours)

Serial #: 6806 **Outside** Pollok Energy Bock #1-17 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63626 Printed: 2017.11.09 @ 10:50:56

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 57849

Well Name & No. 1-17 Bock Test No. 1 Date 10/05/17

Company Pollok Energy Elevation 1670 KB 1662 GL

Address 501 N. 4th Purcell, OK 73080

Co. Rep / Geo. David Hickman Rig Duke 2

Location: Sec. 17 Twp. 28S Rge. 8W Co. Kingman State KS

Interval Tested 4133 - 4203 Zone Tested Mississippi

Anchor Length 70 Drill Pipe Run 4133 Mud Wt. 9.3

Top Packer Depth 4128 Drill Collars Run 0 Vis 45

Bottom Packer Depth 4133 Wt. Pipe Run WL 9.4

Total Depth 4203 Chlorides 4000 ppm System LCM 2

Blow Description IF: Strong Blow, BOB in 90 seconds

ISI: Blow Back Built to 6 inches

FF: Strong Blow, BOB in 30 seconds, GTS in 1 minute, caught sample + Gauged

FSI: Blow Back Built to 4 inches

Rec 3953	Feet of GIP	%gas	%oil	%water	%mud	
Rec 180	Feet of GWCM	5 %gas	%oil	20 %water	75 %mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 180 BHT 129 Gravity API RW .2 @ 32 °F Chlorides 82,000 ppm

(A) Initial Hydrostatic	2075	☑ Test	1150	T-On Location	20:15
(B) First Initial Flow	69	☑ Jars	250	T-Started	
(C) First Final Flow	65	☑ Safety Joint	75	T-Open	
(D) Initial Shut-In	1233	☐ Circ Sub		T-Pulled	
(E) Second Initial Flow	204	☐ Hourly Standby		T-Out	
(F) Second Final Flow	159	☑ Mileage	(90) 67.50	Comments	
(G) Final Shut-In	1328	☑ Sampler	250		
(H) Final Hydrostatic	2012	☐ Straddle			
		☐ Shale Packer		☐ Ruined Shale Packer	
Initial Open	30	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	60	☐ Extra Recorder		☐ Extra Copies	
Final Flow	60	☐ Day Standby		Sub Total	0
Final Shut-In	120	☐ Accessibility		Total	1792.50
		Sub Total	1792.50	MP/DST Disc't	

Approved By Our Representative

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

8/12

Gas Volume Report

Pollok Energy — Operator

1-17 Bock — Well Name and No.

1 — DST No.

GTS - 1 minute

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
				10	3	1/4	4.759
				20	4	1/8	1.497
				30	7	1/8	2.620
				40	10	1/8	3.743
				50	12	1/8	4.491
				60	14	1/8	5.240

Remarks:

TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 57849 Date 11/05/17

Company Name Pollak Energy

Lease 1-17 Bock Test No. 1

County Kingman Sec. 17 Twp. 28S Rng. 8W

SAMPLER RECOVERY

Gas 7 cu FT ML

Oil N/A ML

Mud 80 ML

Water 20 ML

Other N/A ML

Pressure 10 psi ML

Total 100 ML

PIT MUD ANALYSIS

Chlorides 4000 ppm.

Resistivity _____ ohms @ _____ F

Viscosity 45

Mud Weight 9.3

Filtrate 9.4

Other 2# LCM

SAMPLER ANALYSIS

Resistivity .2 ohms @ 32 F

Chlorides 82000 ppm.

Gravity _____ corrected @60F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

Printcraft Printers 9/01

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 57850

Well Name & No. I-17 Bock Test No. 2 Date 11/06/17

Company Pollok Energy Elevation 1170 KB 1162 GL

Address 501 N. 4th Purcell, OK 73080

Co. Rep / Geo. David Hickman Rig Duke 2

Location: Sec. 17 Twp. 28S Rge. 8W Co. Kingman State KS

Interval Tested 4205 – 4244 Zone Tested Mississippi

Anchor Length 39 Drill Pipe Run 4195 Mud Wt. 9.0

Top Packer Depth 4200 Drill Collars Run 0 Vis 69

Bottom Packer Depth 4205 Wt. Pipe Run 0 WL 9.2

Total Depth 4244 Chlorides 5000 ppm System LCM 2

Blow Description IF: Strong Blow, BOB in 1 minute

ISI: weak surface Blow Back

FF: Fair Blow, BOB in 5 minutes

FSI: weak surface Blow Back

Rec 55	Feet of SGCM	2 %gas	%oil	%water	98 %mud		
Rec 189	Feet of GOMCW	5 %gas	5 %oil	60 %water	30 %mud		
Rec 441	Feet of water	%gas	%oil	%water	%mud		
Rec	Feet of	%gas	%oil	%water	%mud		
Rec	Feet of	%gas	%oil	%water	%mud		

Rec Total 685 BHT 127 Gravity N/C API RW .17 @ 41 °F Chlorides 79000 ppm

(A) Initial Hydrostatic	2081	☑ Test	1150	T-On Location	14:00
(B) First Initial Flow	209	☑ Jars	250	T-Started	14:37
(C) First Final Flow	155	☑ Safety Joint	75	T-Open	16:18
(D) Initial Shut-In	1317	☐ Circ Sub		T-Pulled	20:48
(E) Second Initial Flow	162	☐ Hourly Standby		T-Out	23:10
(F) Second Final Flow	332	☑ Mileage (90)	67.50	Comments	
(G) Final Shut-In	1321	☑ Sampler	250		
(H) Final Hydrostatic	2014	☐ Straddle			
		☐ Shale Packer		☐ Ruined Shale Packer	
Initial Open	30	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	60	☐ Extra Recorder		☐ Extra Copies	
Final Flow	60	☐ Day Standby		Sub Total	0
Final Shut-In	120	☐ Accessibility		Total	1792.50
		Sub Total	1792.50	MP/DST Disc't	

Approved By _____ Our Representative _____

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.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 57850 Date 11/06/17

Company Name Pollak Energy

Lease 1-17 Bock Test No. 2

County Kingman Sec. 17 Twp. 28S Rng. 8W

SAMPLER RECOVERY

Gas 2.02 CuFT ML

Oil ML

Mud ML

Water 600 ml ML

Other ML

Pressure 2 psi ML

Total 600 ML

PIT MUD ANALYSIS

Chlorides 5000 ppm.

Resistivity ohms @ F

Viscosity 69

Mud Weight 9.0

Filtrate 9.2

Other 2# LCM

SAMPLER ANALYSIS

Resistivity .17 ohms @ 41° F

Chlorides 79000 ppm.

Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms @ F

Chlorides ppm.

MIDDLE

Resistivity ohms @ F

Chlorides ppm.

BOTTOM

Resistivity .17 ohms @ 41 F

Chlorides 79000 ppm.

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1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63626

Well Name & No. 1-17 BOEK Test No. 3 Date 11/07/17

Company Pollok Energy Elevation 1670 KB 1662 GL

Address 501 N. 4th Purcell, OK 73080

Co. Rep / Geo. David Hickman Rig Duke 2

Location: Sec. 17 Twp. 28S Rge. 8W Co. Kingman State KS

Interval Tested ~~4203~~ 4243 – 4278 Zone Tested Mississippi

Anchor Length 35 Drill Pipe Run 4239 Mud Wt. 9.0

Top Packer Depth 4238 Drill Collars Run 0 Vis 52

Bottom Packer Depth 4243 Wt. Pipe Run 0 WL 9.2

Total Depth 4278 Chlorides 5000 ppm System LCM 1

Blow Description IF: Fair Blow, BOB in 16 minutes

ISI: No Blow Back

FF: Weak Blow, BOB in 32 minutes

FSI:

Rec 15	Feet of OMCW	%gas	20 %oil	70 %water	10 %mud
Rec 126	Feet of MCW	%gas	%oil	95 %water	5 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 141 BHT 123 Gravity NCC API RW .19 @ 37 °F Chlorides 77000 ppm

(A) Initial Hydrostatic	2097	☑ Test	1150	T-On Location	06:45
(B) First Initial Flow	37	☑ Jars	250	T-Started	08:53
(C) First Final Flow	44	☑ Safety Joint	75	T-Open	11:03
(D) Initial Shut-In	1355	☐ Circ Sub		T-Pulled	15:34
(E) Second Initial Flow	46	☐ Hourly Standby		T-Out	17:48
(F) Second Final Flow	87	☑ Mileage (90)	67.50 +67.50	Comments	Loaded Tools @ 2200 on 11/08
(G) Final Shut-In	1360	☑ Sampler	250		
(H) Final Hydrostatic	2033	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	30	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	60	☐ Extra Recorder		Sub Total	0
Final Flow	60	☐ Day Standby		Total	1860.00
Final Shut-In	120	☐ Accessibility		MP/DST Disc't	
		Sub Total	1860		

Approved By _____ Our Representative _____

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TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 63626 Date 11/07/17

Company Name Pollok Energy

Lease 1-17 BOCK Test No. 3

County Kingman Sec. 17 Twp. 28S Rng. 8W

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud _____ ML

Water 200 ML

Other _____ ML

Pressure _____ ML

Total 200 ML

PIT MUD ANALYSIS

Chlorides _____ ppm.

Resistivity _____ ohms @ _____ F

Viscosity _____

Mud Weight _____

Filtrate _____

Other _____

SAMPLER ANALYSIS

Resistivity .19 ohms @ 37 F

Chlorides 77000 ppm.

Gravity _____ corrected @60F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity .19 ohms @ 37 F

Chlorides 77000 ppm.

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DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 57850 **DST#: 2**

Test Start: 2017.11.06 @ 14:37:01

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:18:16
Time Test Ended: 23:10:16

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4205.00 ft (KB) To 4244.00 ft (KB) (TVD)
Total Depth: 4244.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

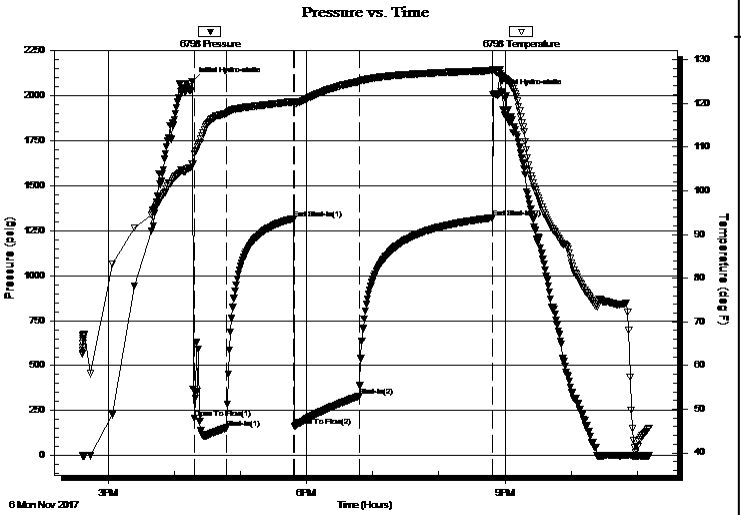
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 331.90 psig @ 4206.00 ft (KB)
Start Date: 2017.11.06 End Date: 2017.11.06
Start Time: 14:37:02 End Time: 23:10:16

Capacity: 8000.00 psig
Last Calib.: 2017.11.06
Time On Btm: 2017.11.06 @ 16:16:16
Time Off Btm: 2017.11.06 @ 20:50:16

TEST COMMENT: IF: Strong Blow , BOB in 60 seconds
ISI: Weak Surface Blow Back
FF: Fair Blow , BOB in 5 minutes
FSI: Weak Surface Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.63	106.03	Initial Hydro-static
2	208.72	108.46	Open To Flow (1)
31	154.79	117.69	Shut-In(1)
92	1317.49	120.36	End Shut-In(1)
93	162.33	120.03	Open To Flow (2)
152	331.90	124.98	Shut-In(2)
272	1321.20	127.46	End Shut-In(2)
274	2014.14	127.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
441.00	Water	6.19
189.00	GOMCW 5%G 5%O 30%M 60%W	2.65
55.00	SGCM 2%G 98%M	0.77

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 57850 **DST#: 2**

Test Start: 2017.11.06 @ 14:37:01

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:18:16
Time Test Ended: 23:10:16

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4205.00 ft (KB) To 4244.00 ft (KB) (TVD)
Total Depth: 4244.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

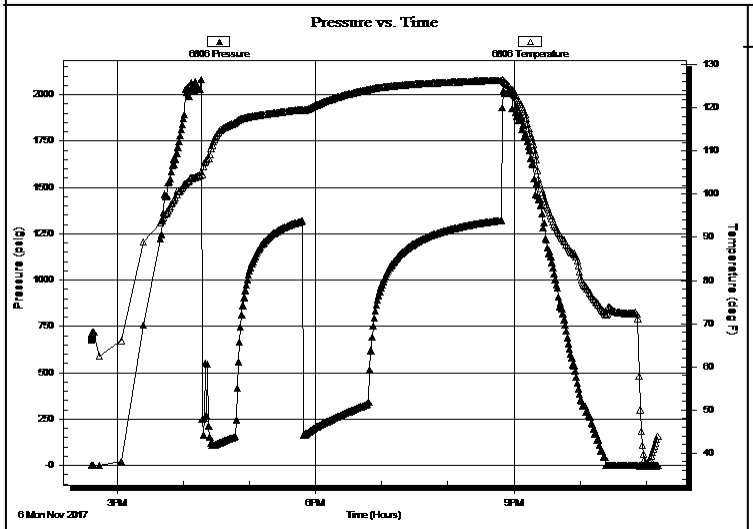
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6806 **Outside**

Press@RunDepth: psig @ 4206.00 ft (KB)
Start Date: 2017.11.06 End Date: 2017.11.06
Start Time: 14:37:02 End Time: 23:10:31

Capacity: 8000.00 psig
Last Calib.: 2017.11.06
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 60 seconds
ISI: Weak Surface Blow Back
FF: Fair Blow , BOB in 5 minutes
FSI: Weak Surface Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
441.00	Water	6.19
189.00	GOMCW 5%G 5%O 30%M 60%W	2.65
55.00	SGCM 2%G 98%M	0.77

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 57850 **DST#: 2**

Test Start: 2017.11.06 @ 14:37:01

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:	79000 ppm
Viscosity:	69.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
441.00	Water	6.186
189.00	GOMCW 5%G 5%O 30%M 60%W	2.651
55.00	SGCM 2%G 98%M	0.772

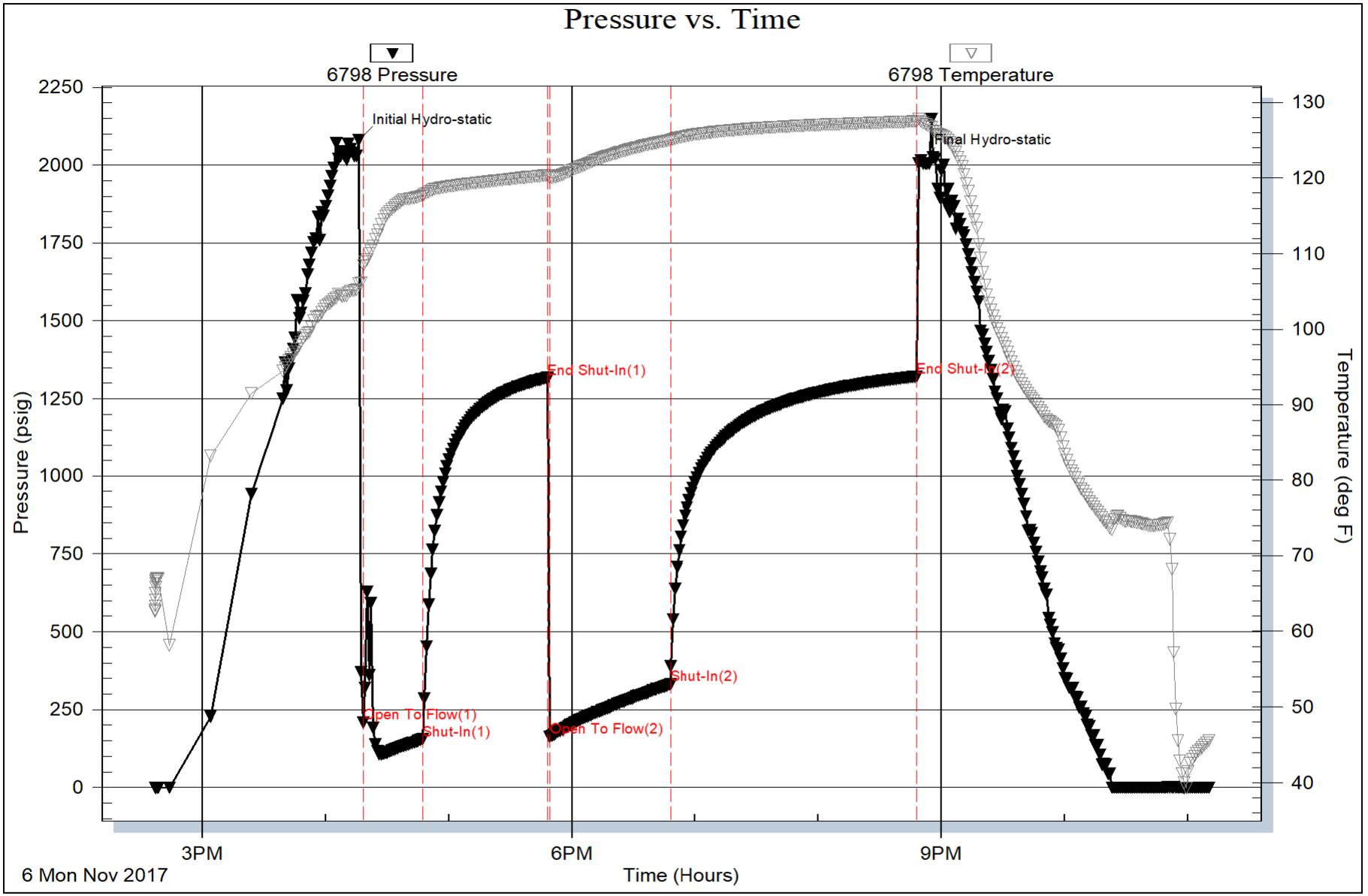
Total Length: 685.00 ft Total Volume: 9.609 bbl

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

Laboratory Name: Laboratory Location:

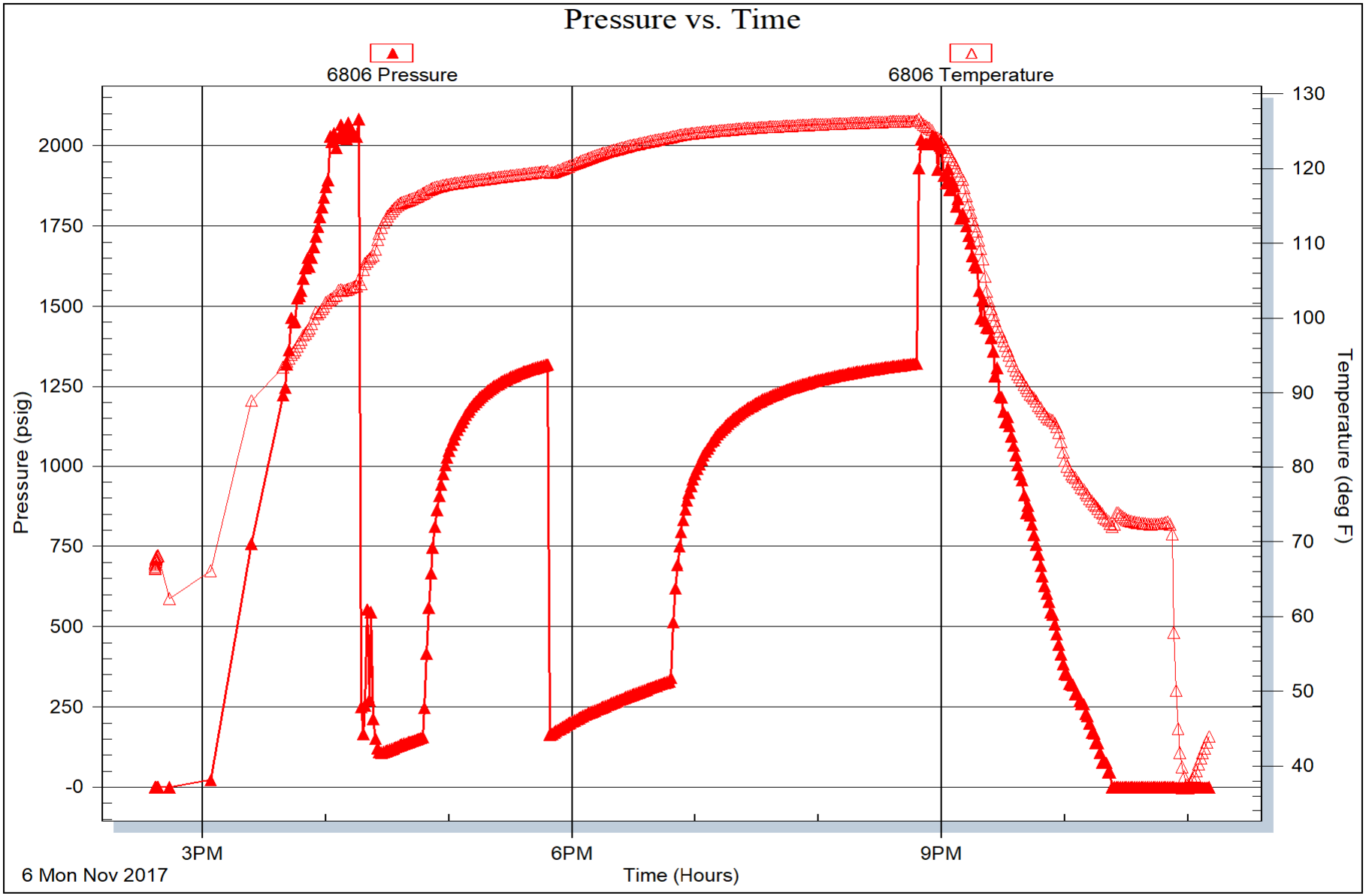
Recovery Comments: RW was .17 @ 41 degrees
Sampler Data: 2.02 CU FT Gas, 600ml Water @ 2 psi

Serial #: 6798 **Inside** Pollok Energy 1-17 Bock DST Test Number: 2



Trilobite Testing, Inc Ref. No: 57850 Printed: 2017.11.07 @ 04:04:08

Serial #: 6806 **Outside** Pollok Energy 1-17 Bock DST Test Number: 2



Trilobite Testing, Inc Ref. No: 57850 Printed: 2017.11.07 @ 04:04:08

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 63626 **DST#: 3**

Test Start: 2017.11.07 @ 08:53:33

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:03:48
Time Test Ended: 17:48:18

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 4243.00 ft (KB) To 4278.00 ft (KB) (TVD)
Total Depth: 4278.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

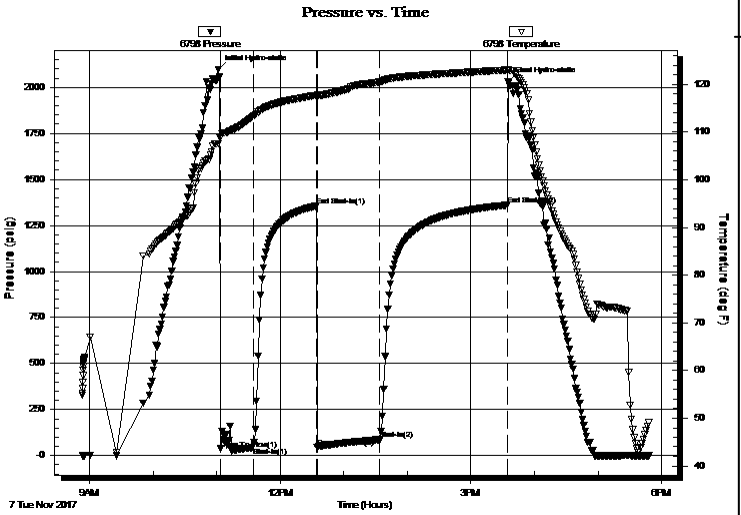
Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 86.75 psig @ 4244.00 ft (KB)
Start Date: 2017.11.07 End Date: 2017.11.07
Start Time: 08:53:34 End Time: 17:48:18

Capacity: 8000.00 psig
Last Calib.: 2017.11.07
Time On Btm: 2017.11.07 @ 11:01:33
Time Off Btm: 2017.11.07 @ 15:35:03

TEST COMMENT: IF: Fair Blow , BOB in 16 minutes
ISI: No Blow Back
FF: Weak Blow , BOB in 32 minutes
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.30	107.59	Initial Hydro-static
3	36.87	108.80	Open To Flow (1)
33	43.59	113.24	Shut-In(1)
93	1355.31	117.70	End Shut-In(1)
94	46.29	117.68	Open To Flow (2)
153	86.75	120.51	Shut-In(2)
273	1360.35	123.00	End Shut-In(2)
274	2032.83	123.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCW 5%M 95%W	1.77
15.00	MOCW 10%M 20%O 70%W	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 63626 **DST#: 3**

Test Start: 2017.11.07 @ 08:53:33

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:03:48
Time Test Ended: 17:48:18

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

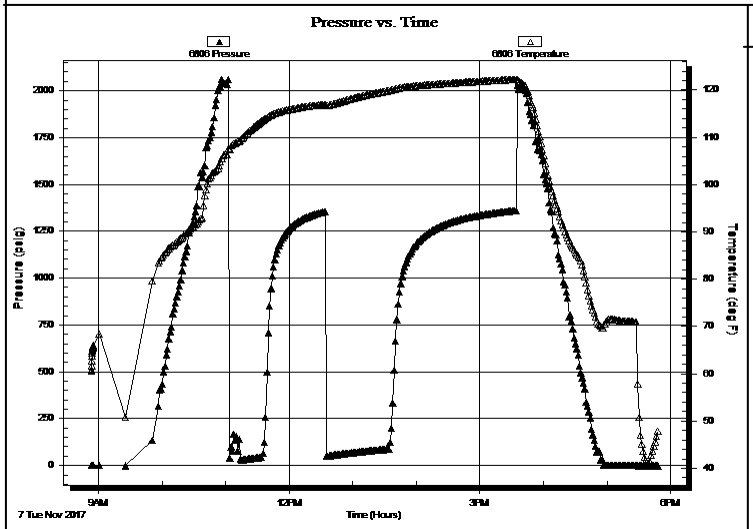
Interval: 4243.00 ft (KB) To 4278.00 ft (KB) (TVD)
Total Depth: 4278.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1670.00 ft (KB)
1662.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6806 **Outside**
Press@RunDepth: psig @ 4244.00 ft (KB)
Start Date: 2017.11.07 End Date: 2017.11.07
Start Time: 08:53:34 End Time: 17:48:18

Capacity: 8000.00 psig
Last Calib.: 2017.11.07
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 16 minutes
ISI: No Blow Back
FF: Weak Blow , BOB in 32 minutes
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCW 5%M 95%W	1.77
15.00	MOCW 10%M 20%O 70%W	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Pollok Energy

501 N 4th
Purcell, OK 73080

ATTN: David Hickman

17-28S-8W Kingman

1-17 Bock

Job Ticket: 63626 **DST#: 3**

Test Start: 2017.11.07 @ 08:53:33

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:	77000 ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.36 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	MCW 5%M 95%W	1.767
15.00	MOCW 10%M 20%O 70%W	0.210

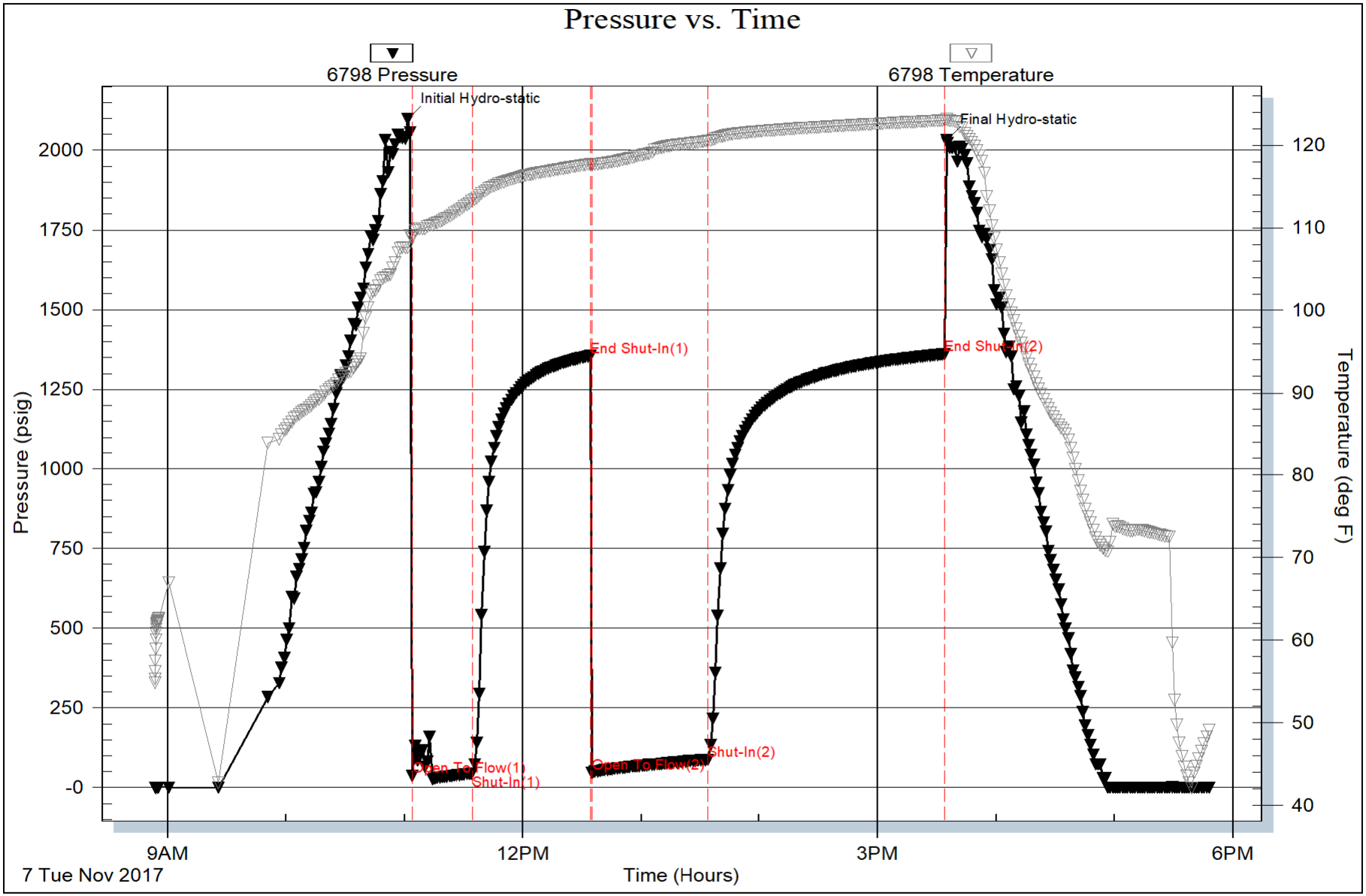
Total Length: 141.00 ft Total Volume: 1.977 bbl

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

Laboratory Name: Laboratory Location:

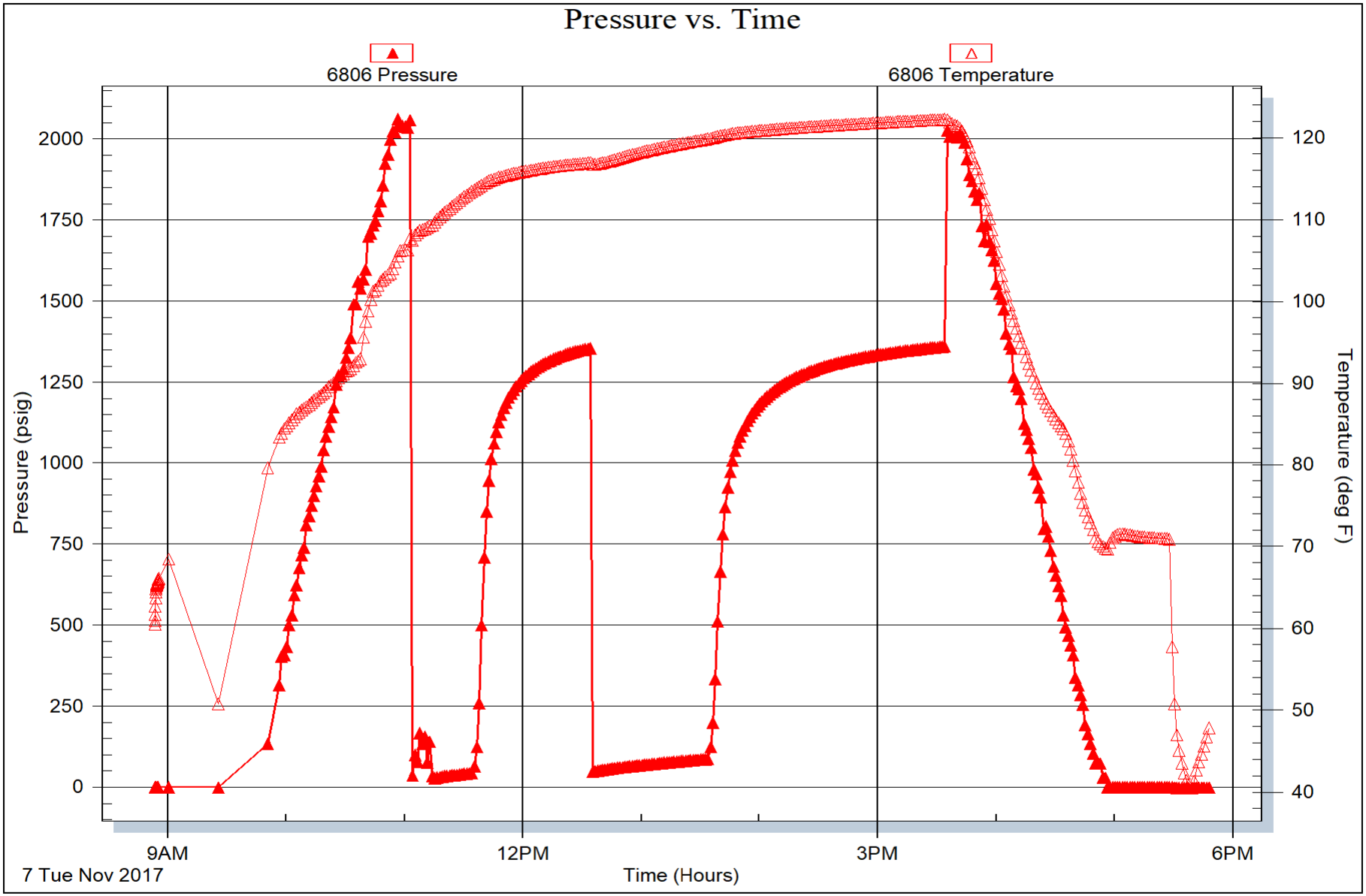
Recovery Comments: RW was .19 @ 37 degrees
Sampler Data: 200 ml Water

Serial #: 6798 **Inside** Pollok Energy 1-17 Bock DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63626 Printed: 2017.11.07 @ 20:32:11

Serial #: 6806 **Outside** Pollok Energy 1-17 Bock DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63626 Printed: 2017.11.07 @ 20:32:11

BASIC energy services, L.P.

TREATMENT REPORT

Customer: POLLOK ENERGY, LLC	Lease No.	Date: 10-30-2017	
Lease: BOCK	Well #: 1-14		
Field Order #: 11c083	Station: PRATT, KS.	Casing: 8 5/8"	Depth: 264'
County: KINGMAN	State: KS.		
Type Job: CNW-250' 8 5/8" S.P.	Formation	Legal Description: 17-28S-08W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 8 5/8 X 20#	Tubing Size	Shots/Ft	CMT-	Acid: 175 SKS (60/40 POZ	RATE	PRESS	ISIP
Depth: 264'	Depth	From	To	Pre Pad @ 1.2/CUFT³	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press: 500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: S.V.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 244'	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: DAVE HICKMAN | Station Manager: J. WESTERMAN | Treater: K. LESLEY

Service Units	18868		20400	19760	19860						
Driver Names	LESLEY										

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:45PM					ON LOCATION - SAFETY MEETING
8:20PM					RUN 6 JTS. 8 5/8" X 24# CSG.
9:50PM					CSG. ON BOTTOM
10:10PM					BREAK CIRC. W/ RIG
10:30PM	250		10	5	H2O AHEAD
10:37PM	200		38	5	MIX CMT. @ 14.8PPG
10:44PM	0		0	5	START DISPLACEMENT
10:45PM	100		5	5	LIFT PRESSURE
10:48PM	150		10	3	SLOW RATE
10:50PM	200		15.5	2	CMT. @ DESIRED DEPTH/20' IN CSG.
					CIRC. 20 BBL TO PIT
					CIRC. THRU JOB
					JOB COMPLETE, THANKS - KELEN LESLEY

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Taylor Printing, Inc. 620-672-3656

GEOLOGICAL REPORT
BOCK 1-17
NE/4 SECTION 17-T29S-R8W
KINGMAN COUNTY, KANSAS

SUMMARY

The above noted well was drilled to a depth of 4,600 feet on November 8, 2017. A logging unit was on location at 1,200', with logging beginning at 3,150 feet. At T.D., Weatherford electric logs were run that consisted of Dual Induction, Compensated Neutron-Density, and Micro-log. Drill stem tests were run in the Mississippian aged chert that yielded negative results. From the data collected while drilling and analyzing, no economic accumulations of hydrocarbons were present, so the decision was made to plug and abandon the well.

Mississippian

The top of the Mississippian was cut at 4,189 (-2,526) feet. The samples were described as white and off white in color tripolitic, weathered, and fresh. Samples were hard with lesser amounts of brittle and a few pieces were friable. There was abundant yellow fluorescence, moderate brown staining, a strong oil odor with flash cuts. Electric logs indicated a zone of 39 feet with 30% porosity and cross-over in the micro-log. 3 drill stem tests were run with the results below.

DST #1: 4,133'-4,203' 30-60-60-120

I.F.: STONG BLOW, BOB 90" F.F.: STONG BLOW, BOB 30", GTS 60"

I.S.I.: BLOW BACK BUILT TO 6 INCHES F.S.I.: BLOW BACK BUILT TO 4 INCHES

I.F. – 69-65# F.F. – 204-159# I.S.I.P. -1,233# F.S.I.P. – 1,328#

I.H. – 2,075# F.H. – 2,012# B.H.T. – 129*F

REC. – 180' GASSY WATER CUT MUD (5% GAS, 20% WATER, & 75% MUD)

DST #2: 4,205'-4,244', 30-60-60-120

I.F.: STRONG BLOW, BOB 60" F.F.: FAIR BLOW, BOB 5"
I.S.I.: WEAK SURFACE BLOW BACK F.S.I.: WEAK SURFACE BLOW BACK
I.F. – 209-155# F.F. – 162-332# I.S.I.P. – 1,317# F.S.I.P. – 1,321#
I.H. – 2,081# F.H. – 2,014# B.H.T. – 127*F
REC. – 55' SLIGHT GAS CUT MUD (2% GAS, 98% MUD)
189' GASSY OILY MUD CUT WATER (5% GAS, 5% OIL, 60% WATER, 30% MUD)
441' WATER

DST #3: 4,243'-4,278', 30-60-60-120

I.F.: FAIR BLOW, BOB 16" F.F.: WEAK BLOW, BOB 32"
I.S.I.: NO BLOW BACK F.S.I.:NO BLOW BACK
I.F. – 37-44# F.F. – 46-87# I.S.I.P. – 1,355# F.S.I.P. – 1,360#
I.H. – 2,097# F.H. – 2,033# B.H.T. – 123*f

ELECTRIC LOG TOPS

	POLLOK ENERGY BOCK 1-17 W2 E2 NW NE 17-T29S-R8W	**LEBEN DRILLING BOCK 1 SW NE 17-T29S-R8W**	**MESSENGER PETR. DEMMER J #2 W2 NW SE 8-T29S-R8W**
BS/HEEBNER (SUBSEA)	**3,264'** (-1,601')	**3,274'** (-1,603')	**3,287'** (-1,599')
T/LANSING (SUBSEA)	**3,481'** (-1,818')	**3,502'** (-1,831')	**3,511'** (-1,823')
BS/HUSHPUCKNEY (SUBSEA)	**3,907'** (-2,244')	**3,906'** (-2,235')	**3,901'** (-2,213')
T/CHEROKEE (SUBSEA)	**4,104'** (-2,441')	**4,113'** (-2,442')	**4,098'** (-2,410')
T/MISSISSIPPIAN (SUBSEA)	**4,189'** (-2,526')	**4,198'** (-2,527')	**4,165'** (-2,477')
T/VIOLA (SUBSEA)	**4,482'** (-2,819')	**4,489'** (-2,818')	**NDE**

T/SIMPSON (SUBSEA)	**4,531'** (-2,868')	**4,538'** (-2,867')	**NDE**

Conclusion

The Bock 1-17 was drilled for potential hydrocarbons in the Hertha Limestone, Mississippian aged chert. After drilling and analyzing and the negative drill stem test results, the decision was made to plug and abandon the Bock 1-17.

Respectfully Submitted

Bill Busch