

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Pollok Energy, LLC  
 501 North 4th  
 P.O. Box 106  
 Purcell, OK 73080  
 ATTN: Maggie Fredrickson

**29/28S/8W Kingman, KS**

**Bock #1-29**

Job Ticket: 62008

**DST#: 1**

Test Start: 2017.10.24 @ 03:25:00

## GENERAL INFORMATION:

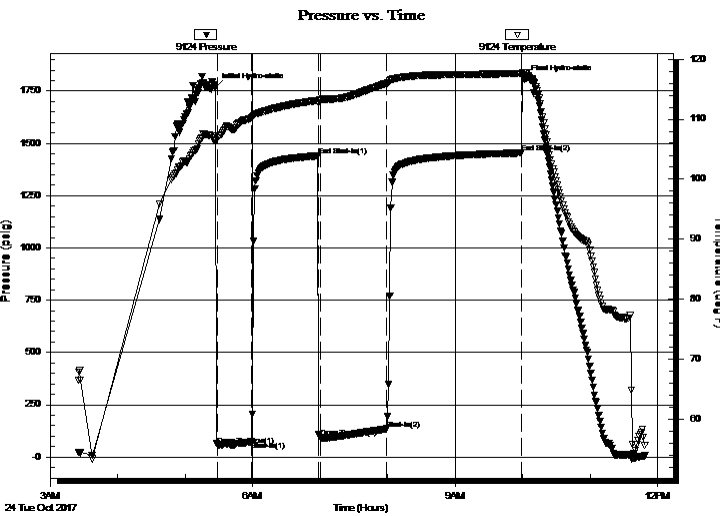
Formation: **Hertha**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:28:50  
 Time Test Ended: 11:48:50  
 Interval: **3818.00 ft (KB) To 3845.00 ft (KB) (TVD)**  
 Total Depth: 3845.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jimmy Ricketts  
 Unit No: 80  
 Reference Elevations: 1637.00 ft (KB)  
 1629.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 9124**

**Inside**

Press@RunDepth: 133.42 psig @ 3819.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.10.24 End Date: 2017.10.24 Last Calib.: 2017.10.24  
 Start Time: 03:25:05 End Time: 11:48:50 Time On Btm: 2017.10.24 @ 05:26:30  
 Time Off Btm: 2017.10.24 @ 10:01:39

TEST COMMENT: IF - Weak blow building to 7 inches during initial flow period.  
 FF - Weak blow building to 8 inches during final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.41	106.43	Initial Hydro-static
3	57.96	106.87	Open To Flow (1)
33	72.95	110.20	Shut-In(1)
92	1440.32	113.13	End Shut-In(1)
94	94.40	113.18	Open To Flow (2)
153	133.42	115.95	Shut-In(2)
273	1453.60	117.63	End Shut-In(2)
276	1805.63	117.70	Final Hydro-static

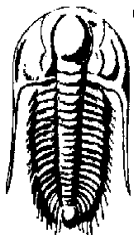
## Recovery

Length (ft)	Description	Volume (bbl)
150.00	Heavy mud cut w ater 72%W & 28%M	2.10

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pollok Energy, LLC

**29/28S/8W Kingman, KS**

501 North 4th  
P.O. Box 106  
Purcell, OK 73080  
ATTN: Maggie Fredrickson

**Bock #1-29**

Job Ticket: 62008

**DST#: 1**

Test Start: 2017.10.24 @ 03:25:00

## 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:

66000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Heavy mud cut w ater 72%W & 28%M	2.104

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0

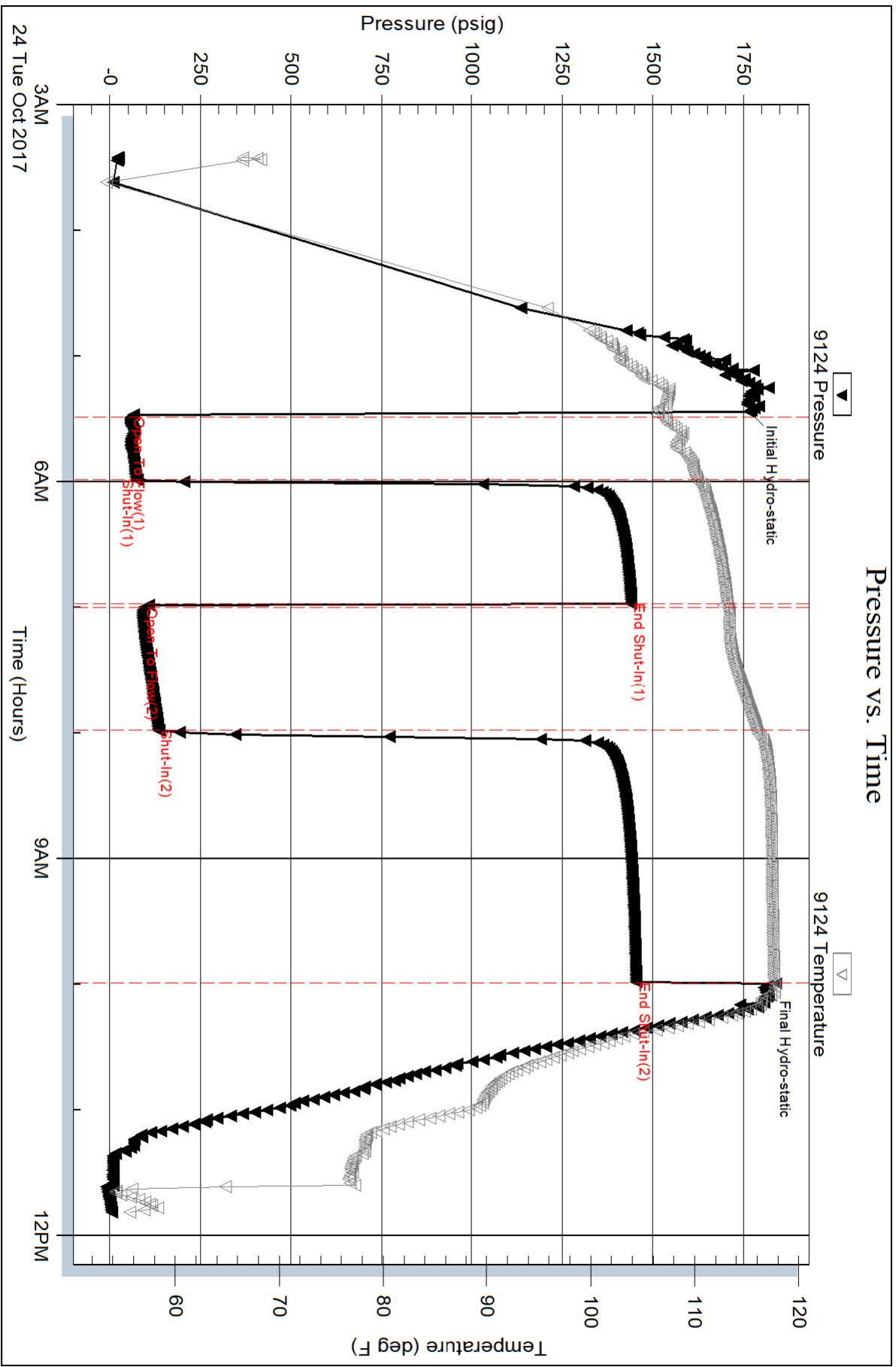
Num Gas Bombs: 0

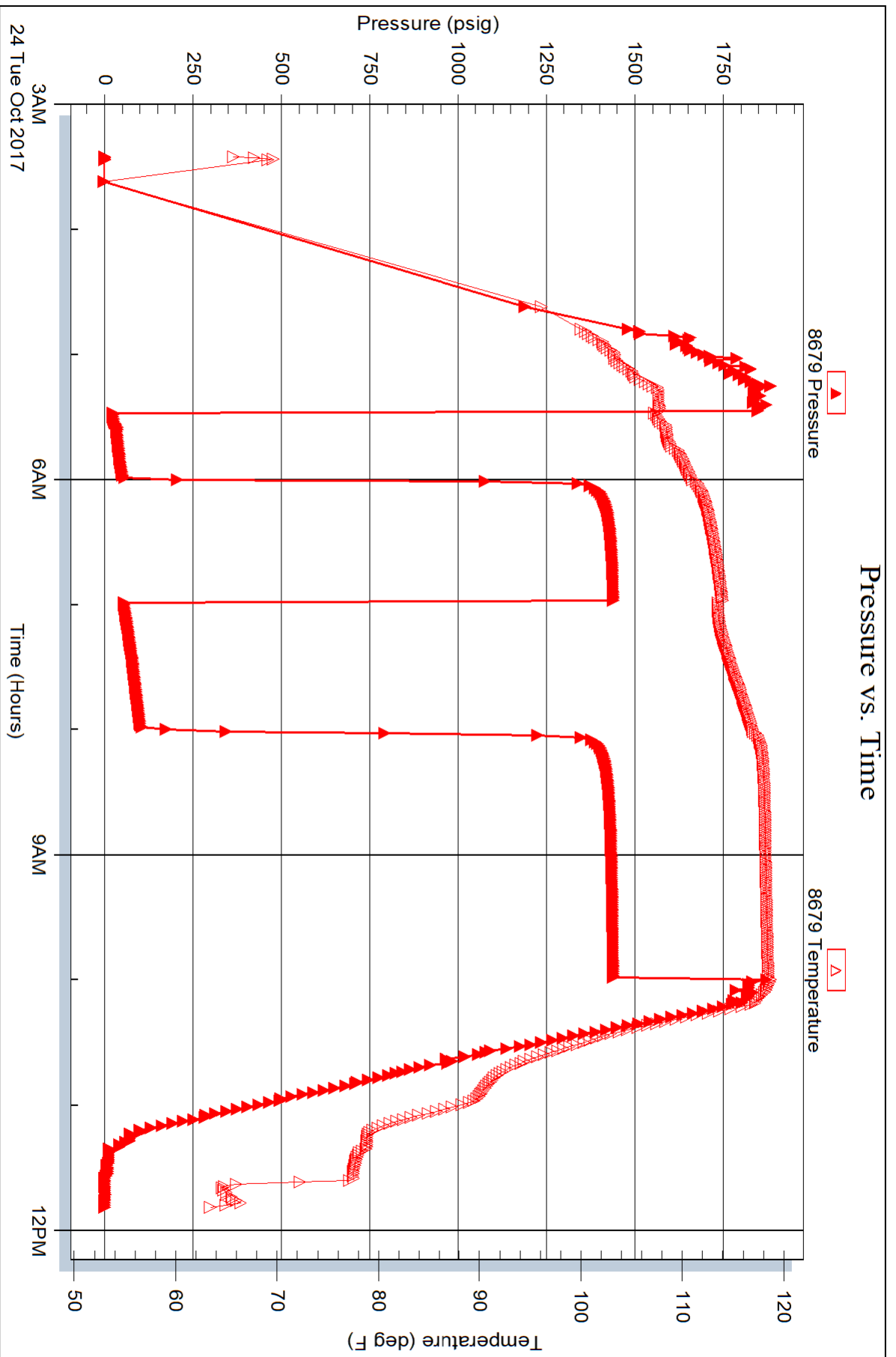
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Pollok Energy, LLC  
501 North 4th  
P.O. Box 106  
Purcell, OK 73080  
ATTN: Maggie Fredrickson

**29/28S/8W Kingman, KS**

**Bock #1-29**

Job Ticket: 62009

**DST#: 2**

Test Start: 2017.10.25 @ 16:03:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:59:20  
 Time Test Ended: 00:42:40  
 Interval: **4110.00 ft (KB) To 4174.00 ft (KB) (TVD)**  
 Total Depth: 4174.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jimmy Ricketts  
 Unit No: 80  
 Reference Elevations: 1637.00 ft (KB)  
 1629.00 ft (CF)  
 KB to GR/CF: 8.00 ft

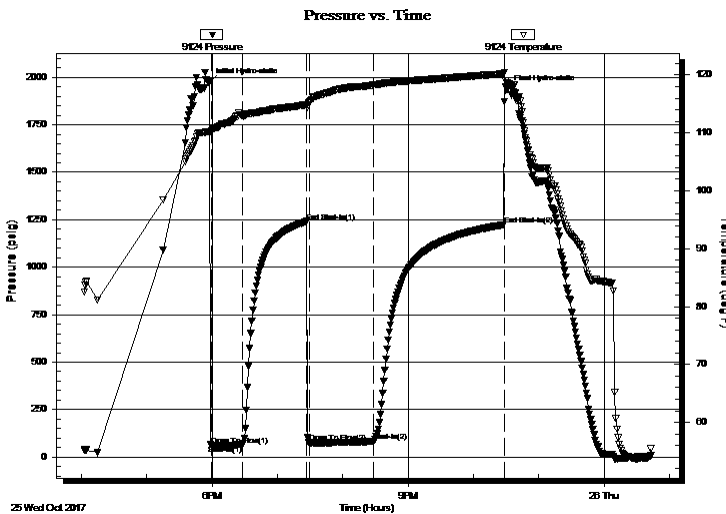
**Serial #: 9124**

**Inside**

Press@RunDepth: 82.16 psig @ 4111.00 ft (KB)  
 Start Date: 2017.10.25 End Date: 2017.10.26  
 Start Time: 16:03:05 End Time: 00:42:40  
 Capacity: 8000.00 psig  
 Last Calib.: 1899.12.30  
 Time On Btm: 2017.10.25 @ 17:57:10  
 Time Off Btm: 2017.10.25 @ 22:31:09

**TEST COMMENT:** IF - Weak blow building to 2 inches during initial flow period.  
 FF - Weak blow building to 2 inches during final flow period.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.20	110.17	Initial Hydro-static
3	63.48	110.30	Open To Flow (1)
31	62.65	112.94	Shut-In(1)
90	1241.16	114.88	End Shut-In(1)
92	76.15	115.28	Open To Flow (2)
151	82.16	118.26	Shut-In(2)
271	1223.40	120.20	End Shut-In(2)
274	1935.30	118.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Water cut mud 18% W & 88% M	1.05

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pollok Energy, LLC

**29/28S/8W Kingman, KS**

501 North 4th  
P.O. Box 106  
Purcell, OK 73080  
ATTN: Maggie Fredrickson

**Bock #1-29**

Job Ticket: 62009

**DST#: 2**

Test Start: 2017.10.25 @ 16:03:00

## 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:

25000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
75.00	Water cut mud 18% W & 88% M	1.052

Total Length: 75.00 ft      Total Volume: 1.052 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Pollok Energy, LLC

**29/28S/8W Kingman, KS**

501 North 4th  
P.O. Box 106  
Purcell, OK 73080  
ATTN: Maggie Fredrickson

**Block #1-29**

Job Ticket: 62009

**DST#: 2**

Test Start: 2017.10.25 @ 16:03:00

### 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)
		0.00	0.00	0.00

Customer Pullock Energy, LLC	Lease No.	Date 10/19/2017
Lease Bock	Well # 1-29	
Field Order # 13483	Station P921113	Casing 8 5/8
Type Job 242/8 5/8 Surface	Depth	County Kingsmen
	Formation	State KS
		Legal Description 29-28s-8w

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
8 5/8				Pre Pad	Max		5 Min.	
Depth	Depth	From	To	Pad	Min		10 Min.	
Volume	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush Fresh Water	Gas Volume		Total Load	
Plug Depth	Packer Depth	From	To					

Customer Representative Darin McGraw	Station Manager Justin Wiseman	Treater Darin Franklin
Service Units 92911 84981 19843 19903 70763		
Driver Names Darin McGraw McGraw Clymer Clymer		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00am					on location / 59 Per mechanics
					175 sk 60/40 P02, 3% Calcium Chloride, 2% Gel, 0.25 pps Cellofloc
					14.8 pps, 1.21 vels, 5.18 wgr
1:00pm	200		3	5	Pump 3 bbls water
	200		38	5	mix 175 sk 60/40 P02
	200		12 3/4	5	Displace 12 3/4 bbls water
1:30pm					Shut in
					Cement & Circulate - 5 bbls
					Job Complete / Darin & Crew
					Thank you!!!

**GEOLOGICAL REPORT**  
**BOCK 1-29**  
**SW/4 SECTION 29-T28S-R8W**  
**KINGMAN COUNTY, KANSAS**

**SUMMARY**

The above noted well was drilled to a depth of 4,564 feet on October 27, 2017. A logging unit was on location at 430', with logging beginning at 3,000 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 Hertha Limestone and 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.

**Hertha Limestone**

The top of the Hertha Limestone was encountered at 3,835 (-2,198) feet. The samples were described as buff, cream, and light gray in color with textures noted as medium and very oomoldic while being hard and brittle. Cuttings were dolomitic in part and displayed excellent pin-point and vugular porosities with some inter-crystalline porosity. Abundant gold fluorescence was noted with a trace of a faint odor. No visible stain was seen and no the rocks did not cut. Electric logs indicated a zone of 15 feet with an average cross-plotted porosity of 18% and as high as 27% with cross-over on the micro-log. A drill stem test was performed to further evaluate the zone with the results below.

DST #1: (3,818'-3,845') 30-60-60-120 I.H.- 1,767#  
I.F.- weak blow building to 7", 58-73#  
F.F.- weak blow building to 8", 94-133#  
I.S.I.P.- 1,440# F.S.I.P.- 1,454# F.H.- 1,806#  
B.H.T. – 118°F Chlorides- 66,000 ppm  
Recovery - 150' heavy mud-cut water (72% water, 28% mud)

## **Mississippian**

The top of the Mississippian was cut at 4,113 (-2,476) feet. The samples were described as white, off white, yellow, with some buff and milky colors. Textures were noted as fresh and tripolitic with a lesser percentage being weathered. Cuttings were hard with some brittle slightly chalky and limy in part with some spicules being noted. Good pin-point, fracture, and inter-granular porosities were noted with some dull mineral fluorescence. No stain, gas bubbles, or cut were noted as well as no gas kick recorded on the gas chromatograph. Electric logs indicated 39 feet of porosity that averaged 26% and as high as 30% with cross-over on the micro-log. A drill stem test was run with the results below.

DST #2: (4,110'-4,174') 30-60-60-120 I.H.-1,973#  
I.F.- weak blow increasing to 2", 63-63#  
F.F.- weak blow increasing to 2", 76-82#  
I.S.I.P.- 1,241# F.S.I.P.-1,223# F.H.- 1,935#  
B.H.T.-120\*F Chlorides-25,000 ppm  
Recovery – 75' water-cut mud (82% mud, 18% salt water)

## **VIOLA DOLOMITE**

The Viola Dolomite was cut at 4,411 (-2,774) feet. The samples were described as off-white and buff in color while having a medium and coarse texture. Cuttings were friable and firm with some being hard. Buff chert was present and porosities were noted as excellent pin-point and inter-crystalline. Dull yellow fluorescence was noted with a very slow ring cut though no stain or odor was present. Electric logs indicated 21 feet of neutron porosity that averaged 19% and as high as 21% accompanied by cross-over in the micro-log.

## **SIMPSON SAND**

The Simpson Sand was cut at 4,476 (-2,839) feet. The samples were described as a sand that was translucent and frosted in appearance. Grain size was noted as fine to medium while being sub-angular to sub-round. Grains were moderately well sorted while some were consolidated and some were unconsolidated. The upper sand had dolomitic cement while the lower two-thirds of the sand had dolomitic and silica cement. A reddish-brown clay material was also noted in the matrix in part throughout the total sand package. Excellent pin-point and inter-granular porosity was seen though no fluorescence, stain, cut, or odor was noted in the top. Electric logs indicate the top to be more of a dolomite than noted in the sample descriptions with an average neutron porosity of 17% and as high as 20% accompanied by cross-over on the micro-log in the top 6 feet.

## ELECTRIC LOG TOPS

	POLLOK ENERGY BOCK 1-29 SW NW SW 29-T28S-R8W	UTICA SOUTHERN BOCH 1 NW NE 29-T28S-R8W	AURORA GASOLINE HIBBS 1 SE SW NW 32-T28S-R8W
<b>BS/HEEBNER</b> (SUBSEA)	<b>3,221'</b> (-1,584')	<b>3,167'</b> (-1,578')	<b>3,208'</b> (-1,596')
<b>T/LANSING</b> (SUBSEA)	<b>3,447'</b> (-1,810')	<b>3,375'</b> (-1,786')	<b>3,441'</b> (-1,829')
<b>BS/HUSHPUCKNEY</b> (SUBSEA)	<b>3,830'</b> (-2,193')	<b>3,766'</b> (-2,177')	<b>3,818'</b> (-2,206')
<b>T/CHEROKEE</b> (SUBSEA)	<b>4,028'</b> (-2,391')	<b>3,961'</b> (-2,372')	<b>4,009'</b> (-2,397')
<b>T/MISSISSIPPIAN</b> (SUBSEA)	<b>4,113'</b> (-2,476')	<b>4,041'</b> (-2,452')	<b>4,080'</b> (-2,468')
<b>T/VIOLA</b> (SUBSEA)	<b>4,411'</b> (-2,774')	<b>4,353'</b> (-2,764')	<b>4,406'</b> (-2,794')
<b>T/SIMPSON</b> (SUBSEA)	<b>4,476'</b> (-2,839')	<b>4,408'</b> (-2,819')	<b>4,457'</b> (-2,845')

### Conclusion

The Bock 1-29 was drilled for potential hydrocarbons in the Hertha Limestone, Mississippian aged chert, and Simpson sands. After drilling and analyzing and the negative drill stem test results, the decision was made to plug and abandon the Bock 1-29.