



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1301908
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1301908

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	Pfeifer Trust 1
Doc ID	1301908

Tops

Name	Top	Datum
Anhy.	1915	(+531)
Base Anhy.	1954	(+492)
Heebner	3691	(-1245)
Lansing	3733	(-1287)
Muncie Creek	3878	(-1432)
Stark Sh.	3967	(-1521)
BKC	4024	(-1578)
Marmaton	4034	(-1588)
Pawnee	4158	(-1712)
Ft. Scott	4224	(-1778)
Cherokee Sh.	4251	(-1805)
Miss.	4318	(-1872)
LTD	4492	(-2046)



CONSOLIDATED
Oil Well Services, LLC

REMIT TO

Consolidated Oil Well Services, LLC
Dept:970
P.O.Box 4346
Houston, TX 77210-4346

RECEIVED

APR 28 2016

MAIN OFFICE

P.O.Box884
Chanute, KS 66720
620/431-9210, 1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

807486

Invoice Date: 04/26/16

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET
NEWTON KS 67114-8827
USA

PHEIFER#1

Tax: 185.18

Total: 4,028.48



CONSOLIDATED
Oil Well Services, LLC

PO Box 88, Chanute, KS 66720
620-431-9210 or 800-467-8676

5691

5596
INVOICE # 87486

TICKET NUMBER 51474
LOCATION Osage Ks
FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
4-23-16	6285	Pfeifer #1	31	14S	23W	Cove	
CUSTOMER		MAILING ADDRESS		TRUCK #	DRIVER	TRUCK #	DRIVER
Palomino		Quinten S-18m Winto		731	Cory D		
CITY		STATE	ZIP CODE	772-7129	Rob S		

JOB TYPE Plug HOLE SIZE 7 7/8 HOLE DEPTH 4490 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on well to plug as ordered with 210 sks
60/40 4 1/2 gal 7/4 # flt seal
50 sks @ 1950'
100 sks @ 220'
50 sks @ 270'
10 sks @ 40' w 8 3/8 wooden plug

Thank you

Jerry + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0454	1	PUMP CHARGE	1900.00	1900.00
CE0002	30	MILEAGE	7.15	214.50
CE0711	9.03	ten mileage delivery (min)	66.00	660.00
CC5891	210	Litacraght #	16.00	3360.00
CC6075	53	flt seal	2.00	106.00
CP8228	1	8 3/8 wooden plug	16.50	16.50
			subtotal	6405.50
			-40%	2562.20
			subtotal	3843.30
			SALES TAX	185.18
			ESTIMATED TOTAL	4028.48

Ravin 3737

AUTHORIZATION Noel Perry TITLE TP DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



CONSOLIDATED
Oil Well Services, LLC

Consolidated Oil Well Services, LLC
Dept:970
P.O.Box 4346
Houston, TX 77210-4346

RECEIVED

APR 18 2016

P.O.Box884
Chanute, KS 66720
620/431-9210, 1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

807437

Invoice Date: 04/14/16

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET
NEWTON KS 67114-8827
USA

PHEIFER #1

Tax: 193.55

Total: 3,685.25

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7554

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-8822

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914

CUSHING, OK
918/225-2650



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-13-16	10285	Pfeifer #1	31	14s	23W	Gove
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Palomino			731	Cory D		
MAILING ADDRESS			566	Rob S		
CITY			70			
STATE			640			
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 216 CASING SIZE & WEIGHT 8 5/8 28 #
 CASING DEPTH 216 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 13 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig upon well 16 break circulation with 13 3/4 bbl fresh mix
1655ks surface blend II (com 302) was up & displace with 13 3/4 bbl fresh water
& shot in circulated approx 2 bbl to pit

Cement did
circulate

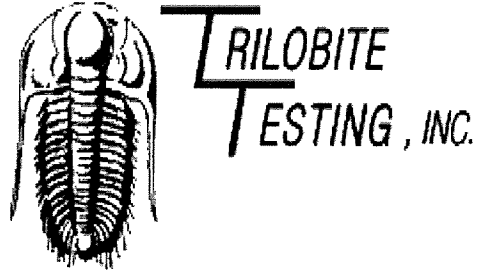
Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150 ⁰⁰	1150 ⁰⁰
CE0002	30	MILEAGE	7 ¹⁵	214 ⁵⁰
CE0711	7.76	ten mileage delivery min	660 ⁰⁰	660 ⁰⁰
CC5871	1655ks	surface blend II	23 ⁰⁰	3795 ⁰⁰
			Subtotal	5819 ⁵⁰
			-40% disc.	2327 ⁸⁰
			Subtotal	3491 ⁷⁰
			SALES TAX	193.55
			ESTIMATED TOTAL	3685.25

Revin 3737

AUTHORIZATION KS TITLE Driller DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE. 84th St
Newton, Ks 67114

ATTN: Andrew Stenzel

Pfeifer Trust #1

31-14s-26w Gove Ks

Start Date: 2016.04.17 @ 06:59:47

End Date: 2016.04.18 @ 00:02:47

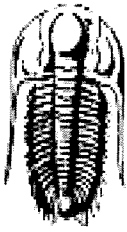
Job Ticket #: 64541 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.04.25 @ 09:55:22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum

31-14s-26w Gove Ks

4924 SE. 84th St
New ton, Ks 67114

Pfeifer Trust #1

Job Ticket: 64541

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2016.04.17 @ 06:59:47

GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:22:17

Time Test Ended: 00:02:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **3904.00 ft (KB) To 3972.00 ft (KB) (TVD)**

Reference Elevations: 2446.00 ft (KB)

Total Depth: 3972.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8166 Outside

Press@RunDepth: 408.64 psig @ 3905.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.04.17

End Date: 2016.04.18

Last Calib.: 2016.04.18

Start Time: 06:59:52

End Time: 00:02:47

Time On Btm: 2016.04.17 @ 15:19:47

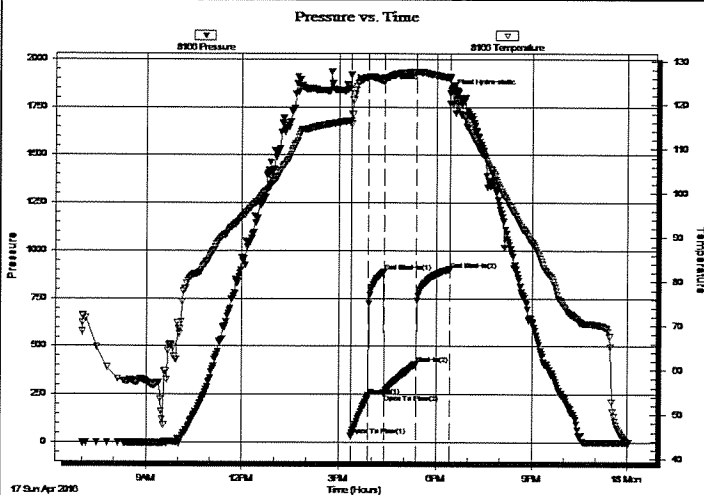
Time Off Btm: 2016.04.17 @ 18:25:17

TEST COMMENT: IF: 1/4" blow built to 5 1/4"

IS: No return.

FF: 1/4" blow built to 6"

FS: No return.



PRESSURE SUMMARY

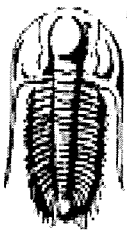
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.88	116.44	Initial Hydro-static
3	34.38	115.68	Open To Flow (1)
33	243.31	126.24	Shut-In(1)
63	888.91	125.37	End Shut-In(1)
63	251.49	125.15	Open To Flow (2)
122	408.64	127.45	Shut-In(2)
185	901.93	126.14	End Shut-In(2)
186	1823.16	126.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
624.00	water 100%w	3.63
186.00	mcw 10%m 90%w	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St
Newton, Ks 67114

ATTN: Andrew Stenzel

31-14s-26w Gove Ks
Pfeifer Trust #1
Job Ticket: 64541 **DST#: 1**
Test Start: 2016.04.17 @ 06:59:47

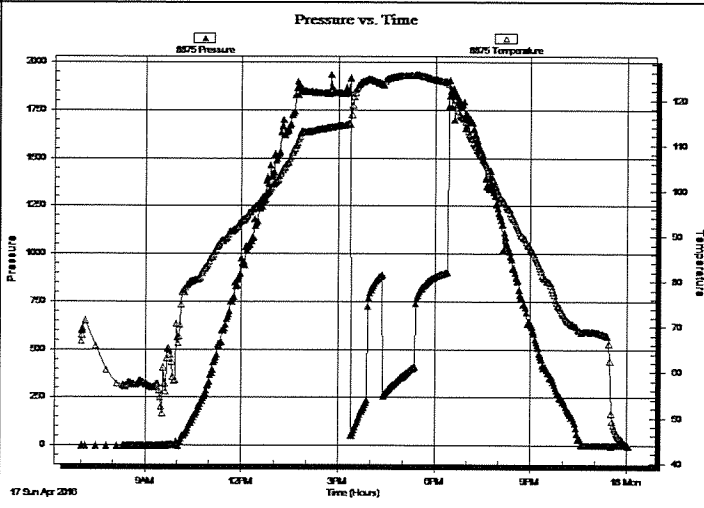
GENERAL INFORMATION:

Formation: **LKC I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:22:17
Time Test Ended: 00:02:47
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: **3904.00 ft (KB) To 3972.00 ft (KB) (TVD)**
Total Depth: 3972.00 ft (KB) (TVD)
Reference Elevations: 2446.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Good 2434.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8875 **Inside**
Press@RunDepth: psig @ 3905.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.04.17 End Date: 2016.04.18 Last Calib.: 2016.04.18
Start Time: 06:59:57 End Time: 00:02:52 Time On Btm:
Time Off Btm:

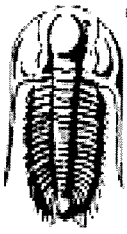
TEST COMMENT: IF: 1/4" blow built to 5 1/4"
IS: No return.
FF: 1/4" blow built to 6"
FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
624.00	water 100%w	3.63
186.00	mcw 10%m 90%w	2.61

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

31-14s-26w Gove Ks

4924 SE. 84th St
Newton, Ks 67114

Pfeifer Trust #1

Job Ticket: 64541

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2016.04.17 @ 06:59:47

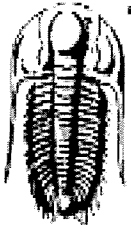
Tool Information

Drill Pipe:	Length: 3320.00 ft	Diameter: 3.80 inches	Volume: 46.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 562.00 ft	Diameter: 2.25 inches	Volume: 2.76 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 49.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 100000.0 lb
Depth to Top Packer:	3904.00 ft			Final 105000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3878.00	
Shut In Tool	5.00			3883.00	
Hydraulic tool	5.00			3888.00	
Jars	5.00			3893.00	
Safety Joint	2.00			3895.00	
Packer	5.00			3900.00	27.00 Bottom Of Top Packer
Packer	4.00			3904.00	
Stubb	1.00			3905.00	
Recorder	0.00	8875	Inside	3905.00	
Recorder	0.00	8166	Outside	3905.00	
Perforations	29.00			3934.00	
Change Over Sub	1.00			3935.00	
Drill Pipe	31.00			3966.00	
Change Over Sub	1.00			3967.00	
Bullnose	5.00			3972.00	68.00 Bottom Packers & Anchor

Total Tool Length: 95.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

31-14s-26w Gove Ks

4924 SE 84th St
New ton, Ks 67114

Pfeifer Trust #1

Job Ticket: 64541

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2016.04.17 @ 06:59:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
624.00	water 100%w	3.634
186.00	mcw 10%w 90%w	2.609

Total Length: 810.00 ft Total Volume: 6.243 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

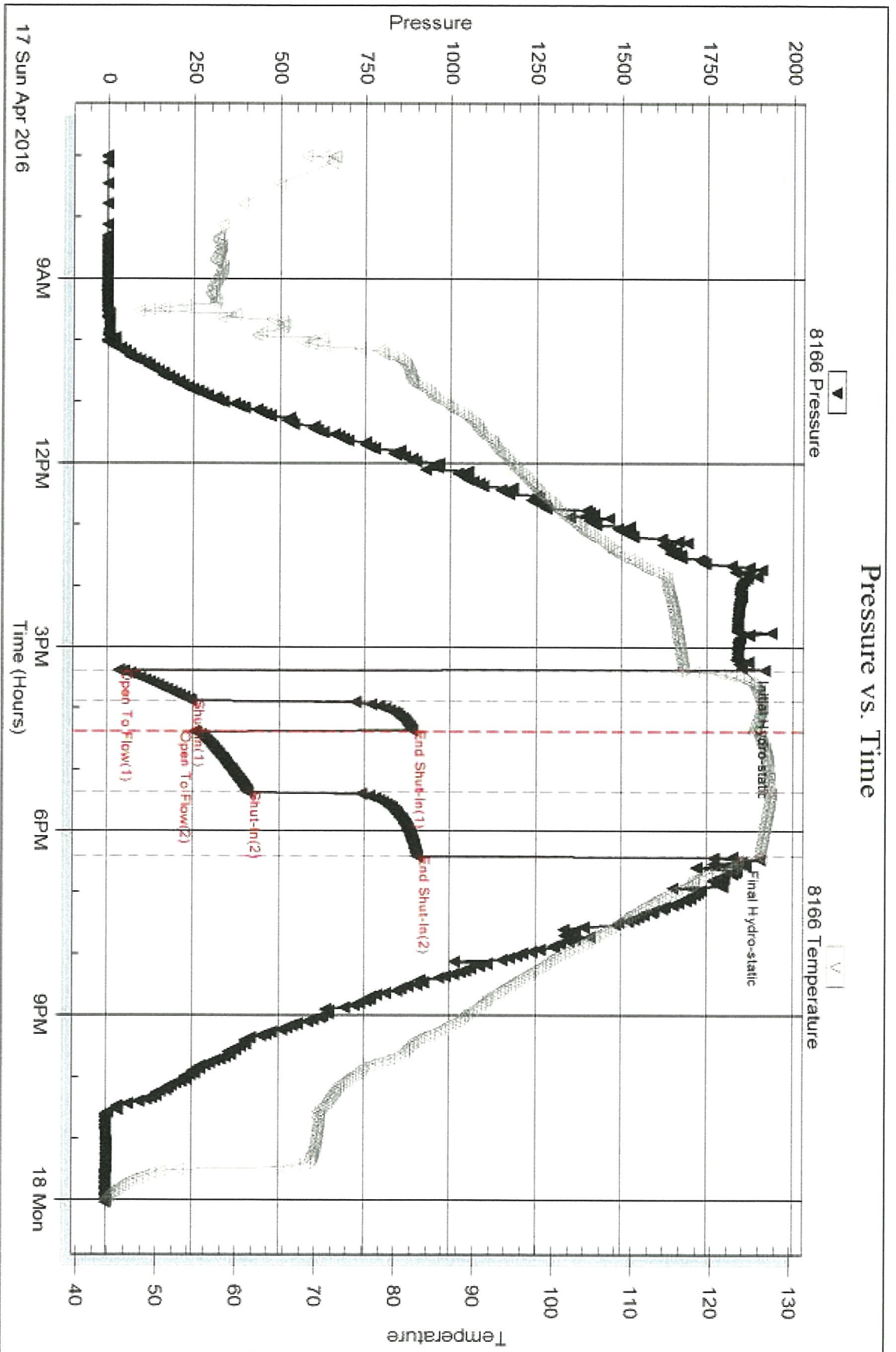
Recovery Comments: .18@47=65000

Serial #: 8166

Outside Palomino Petroleum

Preifer Trust #1

DST Test Number: 1



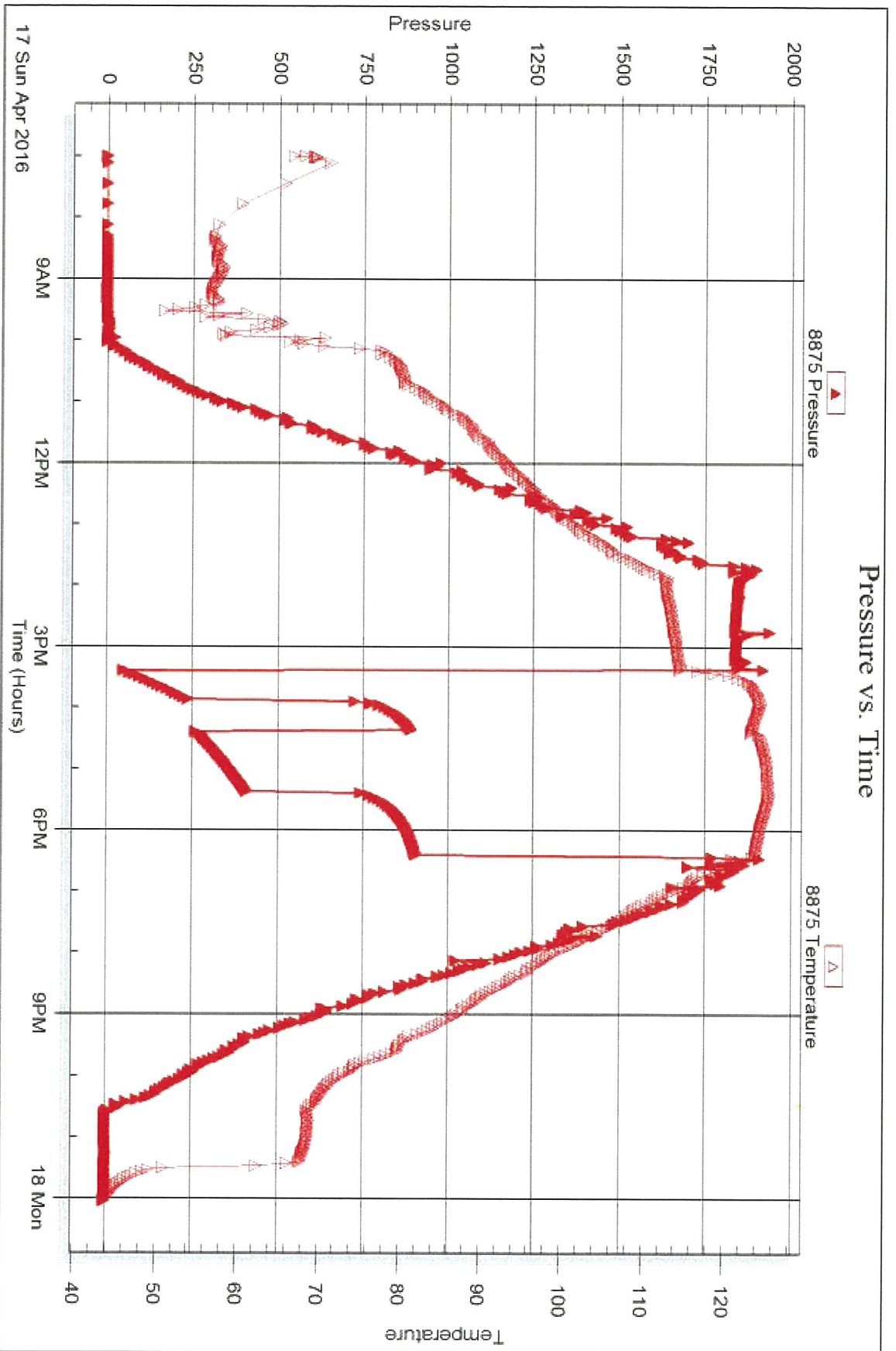
Serial #: 8875

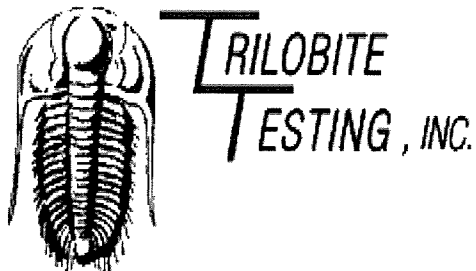
Inside

Palomino Petroleum

Pfeifer Trust #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Palomino**

4924 SE. 84th St
Newton, Ks 67114

ATTN: Andrew Stenzel

Pfeifer Trust #1

31-14s-26w Gove Ks

Start Date: 2016.04.18 @ 18:32:12

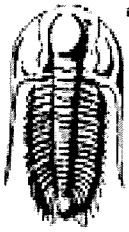
End Date: 2016.04.19 @ 09:54:42

Job Ticket #: 64542 DST #: 2

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

Printed: 2016.04.25 @ 09:44:10

Palomino 31-14s-26w Gove Ks Pfeifer Trust #1 DST # 2 LKC K-L 2016.04.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino
4924 SE 84th St
New ton, Ks 67114

ATTN: Andrew Stenzel

31-14s-26w Gove Ks
Pfeifer Trust #1
Job Ticket: 64542 DST#: 2
Test Start: 2016.04.18 @ 18:32:12

GENERAL INFORMATION:

Formation: **LKC K-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:22:12
Time Test Ended: 09:54:42

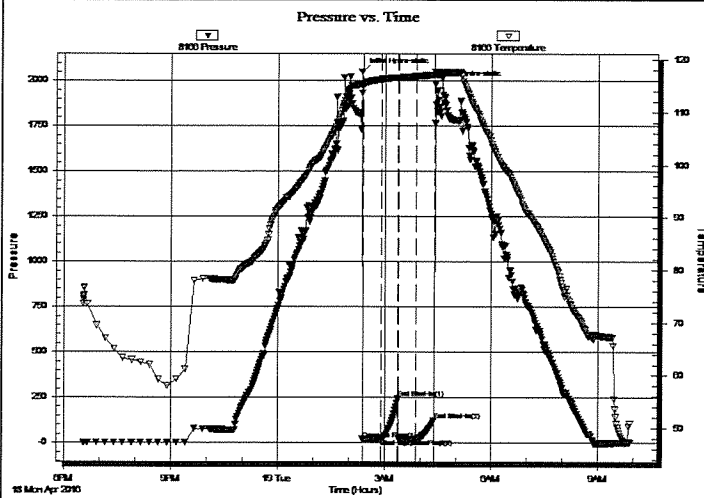
Interval: **3965.00 ft (KB) To 4025.00 ft (KB) (TVD)**
Total Depth: 4025.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Reference Elevations: 2446.00 ft (KB)
2434.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8166 Outside
Press@RunDepth: 22.99 psig @ 3966.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.04.18 End Date: 2016.04.19 Last Calib.: 2016.04.19
Start Time: 18:32:17 End Time: 09:54:42 Time On Btm: 2016.04.19 @ 02:20:12
Time Off Btm: 2016.04.19 @ 04:25:12

TEST COMMENT: IF: 1/4" blow died in 9 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.03	115.39	Initial Hydro-static
2	18.83	115.05	Open To Flow (1)
33	21.31	116.25	Shut-In(1)
62	244.94	116.64	End Shut-In(1)
63	21.58	116.58	Open To Flow (2)
93	22.99	116.87	Shut-In(2)
123	123.81	117.14	End Shut-In(2)
125	1980.14	117.51	Final Hydro-static

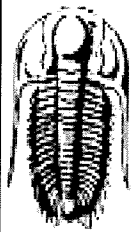
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino
4924 SE 84th St
Newton, Ks 67114

31-14s-26w Gove Ks

Pfeifer Trust #1

Job Ticket: 64542

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2016.04.18 @ 18:32:12

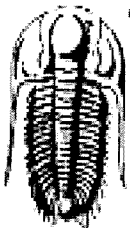
Tool Information

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 562.00 ft	Diameter: 2.25 inches	Volume: 2.76 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 50.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 95000.00 lb
Depth to Top Packer:	3965.00 ft			Final 100000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3939.00	
Shut In Tool	5.00			3944.00	
Hydraulic tool	5.00			3949.00	
Jars	5.00			3954.00	
Safety Joint	2.00			3956.00	
Packer	5.00			3961.00	27.00 Bottom Of Top Packer
Packer	4.00			3965.00	
Stubb	1.00			3966.00	
Recorder	0.00	8875	Inside	3966.00	
Recorder	0.00	8166	Outside	3966.00	
Perforations	21.00			3987.00	
Change Over Sub	1.00			3988.00	
Drill Pipe	31.00			4019.00	
Change Over Sub	1.00			4020.00	
Bullnose	5.00			4025.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino
4924 SE. 84th St
Newton, Ks 67114

ATTN: Andrew Stenzel

31-14s-26w Gove Ks
Pfeifer Trust #1
Job Ticket: 64542 DST#: 2
Test Start: 2016.04.18 @ 18:32:12

Mud and Cushion Information

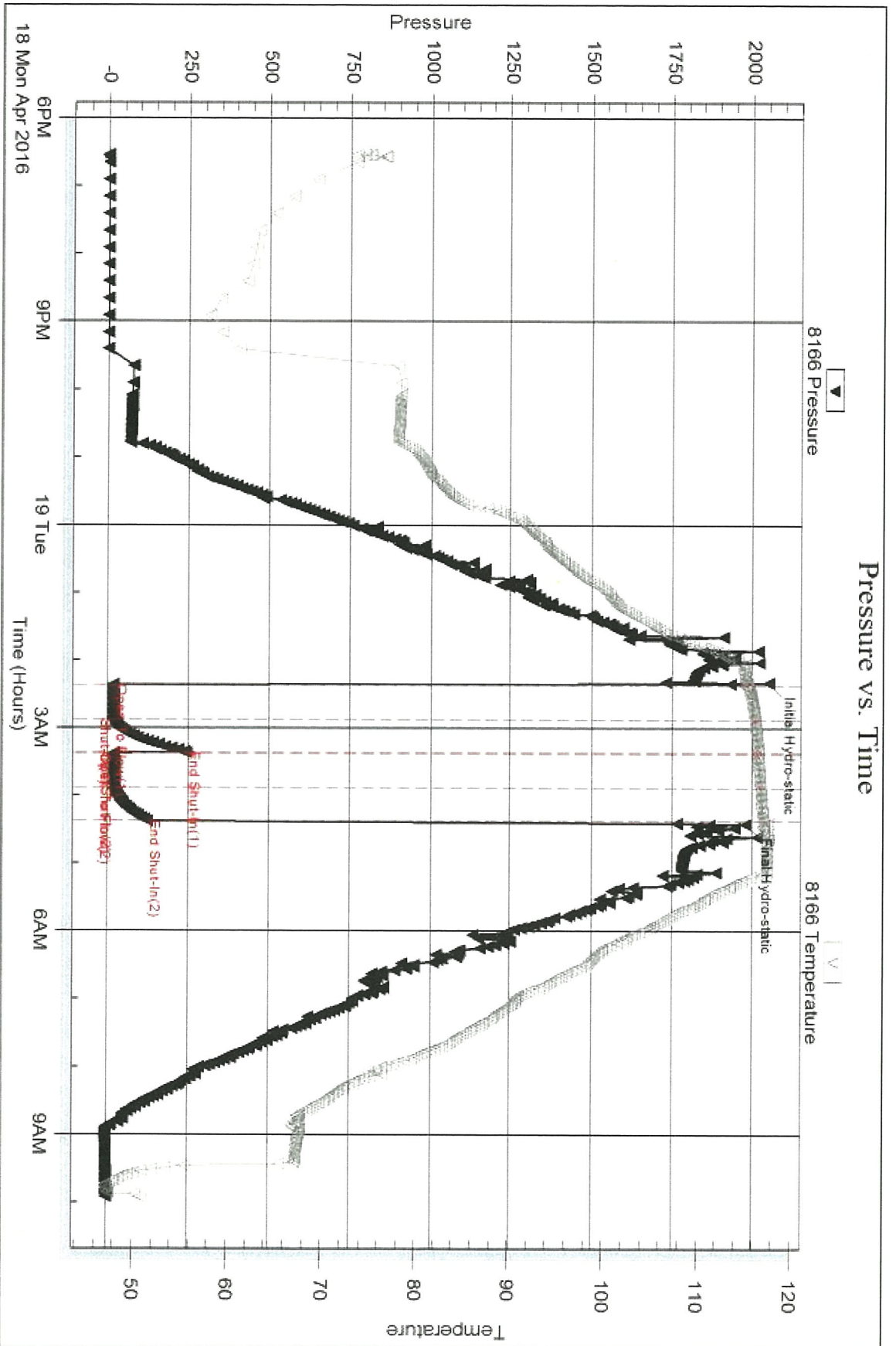
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

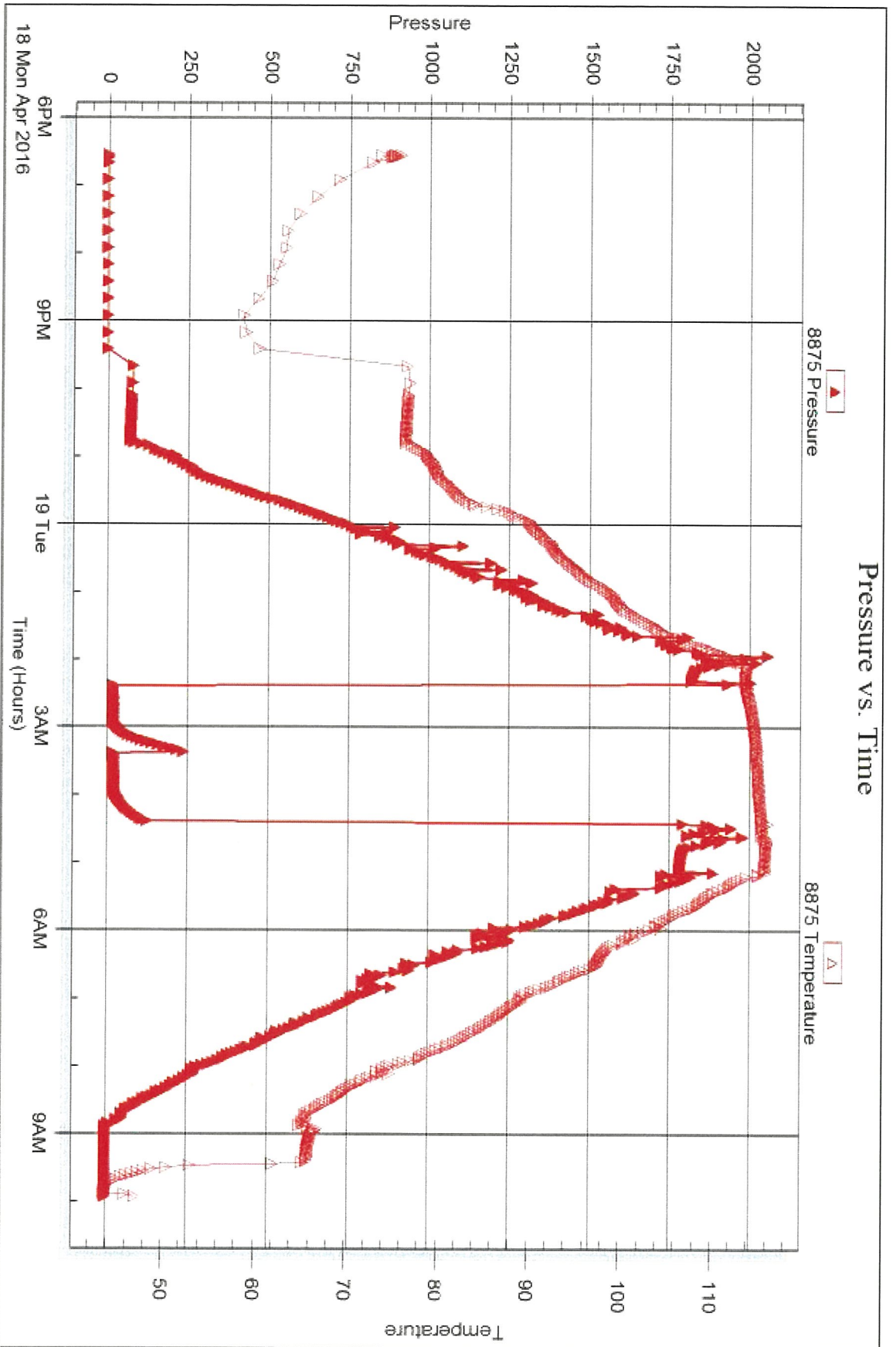


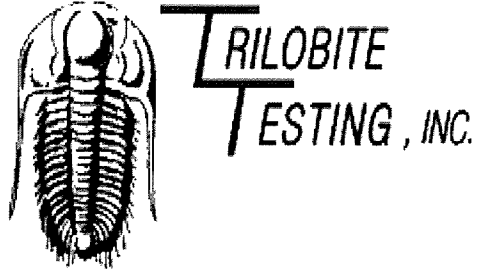
Serial #: 8875

Inside Palomino

Preifer Trust #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Palomino**

4924 SE. 84th St
Newton, Ks 67114

ATTN: Andrew Stenzel

Pfeifer Trust #1

31-14s-26w Gove Ks

Start Date: 2016.04.21 @ 20:36:23

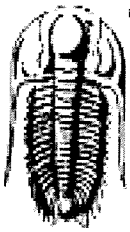
End Date: 2016.04.22 @ 12:19:23

Job Ticket #: 64543 DST #: 3

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

Printed: 2016.04.25 @ 09:39:33

Palomino
31-14s-26w Gove Ks
Pfeifer Trust #1
DST # 3
Miss
2016.04.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino
4924 SE. 84th St
New ton, Ks 67114

ATTN: Andrew Stenzel

31-14s-26w Gove Ks
Pfeifer Trust #1
Job Ticket: 64543 **DST#: 3**
Test Start: 2016.04.21 @ 20:36:23

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:39:53
Time Test Ended: 12:19:23

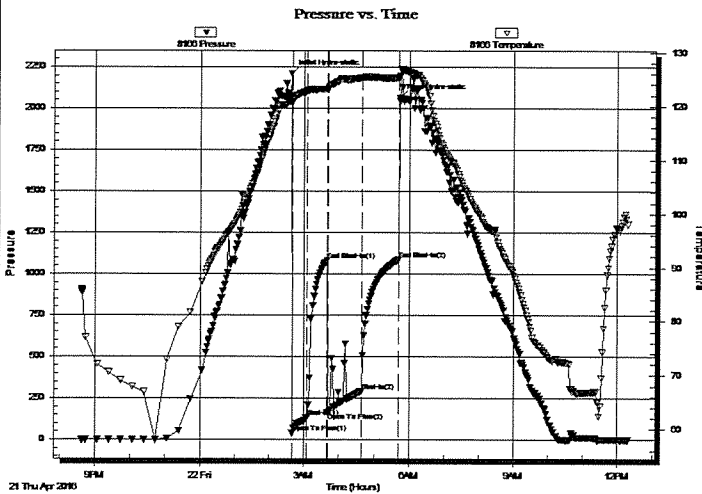
Interval: **4247.00 ft (KB) To 4370.00 ft (KB) (TVD)**
Total Depth: 4492.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Reference Elevations: 2446.00 ft (KB)
2434.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8166 Outside
Press@RunDepth: 293.34 psig @ 4248.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.04.21 End Date: 2016.04.22 Last Calib.: 2016.04.22
Start Time: 20:36:28 End Time: 12:19:23 Time On Btm: 2016.04.22 @ 02:38:53
Time Off Btm: 2016.04.22 @ 05:42:53

TEST COMMENT: IF: 1/4" blow built to 7"
IS: No return
FF: 1/4" blow built to 9 1/2"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.43	121.11	Initial Hydro-static
1	38.94	120.68	Open To Flow (1)
27	134.60	122.89	Shut-In(1)
62	1083.35	123.18	End Shut-In(1)
63	162.64	123.11	Open To Flow (2)
120	293.34	125.25	Shut-In(2)
183	1088.16	125.30	End Shut-In(2)
184	2063.55	125.54	Final Hydro-static

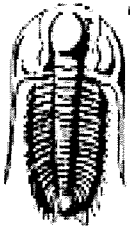
Recovery

Length (ft)	Description	Volume (bbl)
579.00	mud some oil spots 100%m	3.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino
4924 SE. 84th St
New ton, Ks 67114

ATTN: Andrew Stenzel

31-14s-26w Gove Ks

Pfeifer Trust #1

Job Ticket: 64543

DST#: 3

Test Start: 2016.04.21 @ 20:36:23

GENERAL INFORMATION:

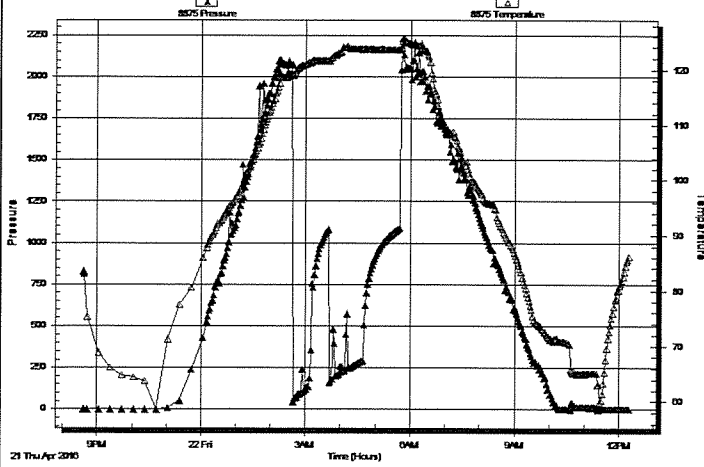
Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:39:53
 Time Test Ended: 12:19:23
 Interval: **4247.00 ft (KB) To 4370.00 ft (KB) (TVD)**
 Total Depth: 4492.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2446.00 ft (KB)
 2434.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4248.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.04.21 End Date: 2016.04.22 Last Calib.: 2016.04.22
 Start Time: 20:36:05 End Time: 12:19:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 7"
 IS: No return
 FF: 1/4" blow built to 9 1/2"
 FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

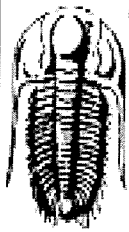
Recovery

Length (ft)	Description	Volume (bbl)
579.00	mud some oil spots 100%m	3.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino
 4924 SE 84th St
 Newton, Ks 67114
 ATTN: Andrew Stenzel

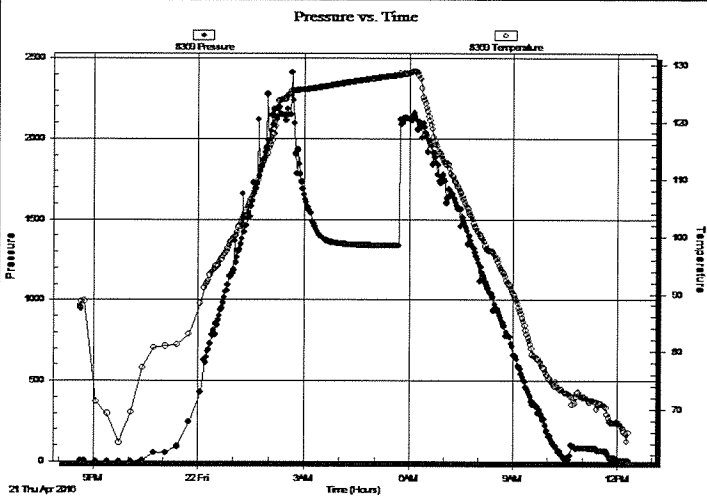
31-14s-26w Gove Ks
Pfeifer Trust #1
 Job Ticket: 64543 **DST#: 3**
 Test Start: 2016.04.21 @ 20:36:23

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:39:53 Tester: Brandon Turley
 Time Test Ended: 12:19:23 Unit No: 79
 Interval: **4247.00 ft (KB) To 4370.00 ft (KB) (TVD)** Reference Elevations: 2446.00 ft (KB)
 Total Depth: 4492.00 ft (KB) (TVD) 2434.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 8369 Below (Straddle)
 Press@RunDepth: psig @ 4486.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.04.21 End Date: 2016.04.22 Last Calib.: 2016.04.22
 Start Time: 20:36:43 End Time: 12:19:08 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 7"
 IS: No return
 FF: 1/4" blow built to 9 1/2"
 FS: No return.



PRESSURE SUMMARY

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

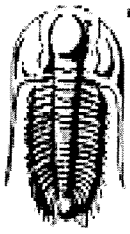
Recovery

Length (ft)	Description	Volume (bbl)
579.00	mud some oil spots 100%m	3.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino

31-14s-26w Gove Ks

4924 SE. 84th St
Newton, Ks 67114

Pfeifer Trust #1

Job Ticket: 64543

DST#: 3

ATTN: Andrew Stenzel

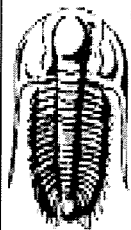
Test Start: 2016.04.21 @ 20:36:23

Tool Information

Drill Pipe:	Length: 3671.00 ft	Diameter: 3.80 inches	Volume: 51.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 562.00 ft	Diameter: 2.25 inches	Volume: 2.76 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 54.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 105000.0 lb
Depth to Top Packer:	4247.00 ft			Final 115000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	245.00 ft			
Tool Length:	267.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4226.00	
Shut In Tool	5.00			4231.00	
Hydraulic tool	5.00			4236.00	
Safety Joint	2.00			4238.00	
Packer	5.00			4243.00	22.00 Bottom Of Top Packer
Packer	4.00			4247.00	
Stubb	1.00			4248.00	
Recorder	0.00	8875	Inside	4248.00	
Recorder	0.00	8166	Outside	4248.00	
Perforations	5.00			4253.00	
Change Over Sub	1.00			4254.00	
Drill Pipe	94.00			4348.00	
Change Over Sub	1.00			4349.00	
Perforations	16.00			4365.00	
Blank Off Sub	1.00			4366.00	
Packer - Shale	5.00			4371.00	245.00 Tool Interval
Packer	4.00			4375.00	
Stubb	1.00			4376.00	
Perforations	15.00			4391.00	
Change Over Sub	1.00			4392.00	
Drill Pipe	94.00			4486.00	
Recorder	0.00	8369	Below	4486.00	
Change Over Sub	1.00			4487.00	
Bullnose	5.00			4492.00	1000266.00 Bottom Packers & Anchor
Total Tool Length:	267.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino
4924 SE. 84th St
New ton, Ks 67114

ATTN: Andrew Stenzel

31-14s-26w Gove Ks
Pfeifer Trust #1
Job Ticket: 64543 DST#: 3
Test Start: 2016.04.21 @ 20:36:23

Mud and Cushion Information

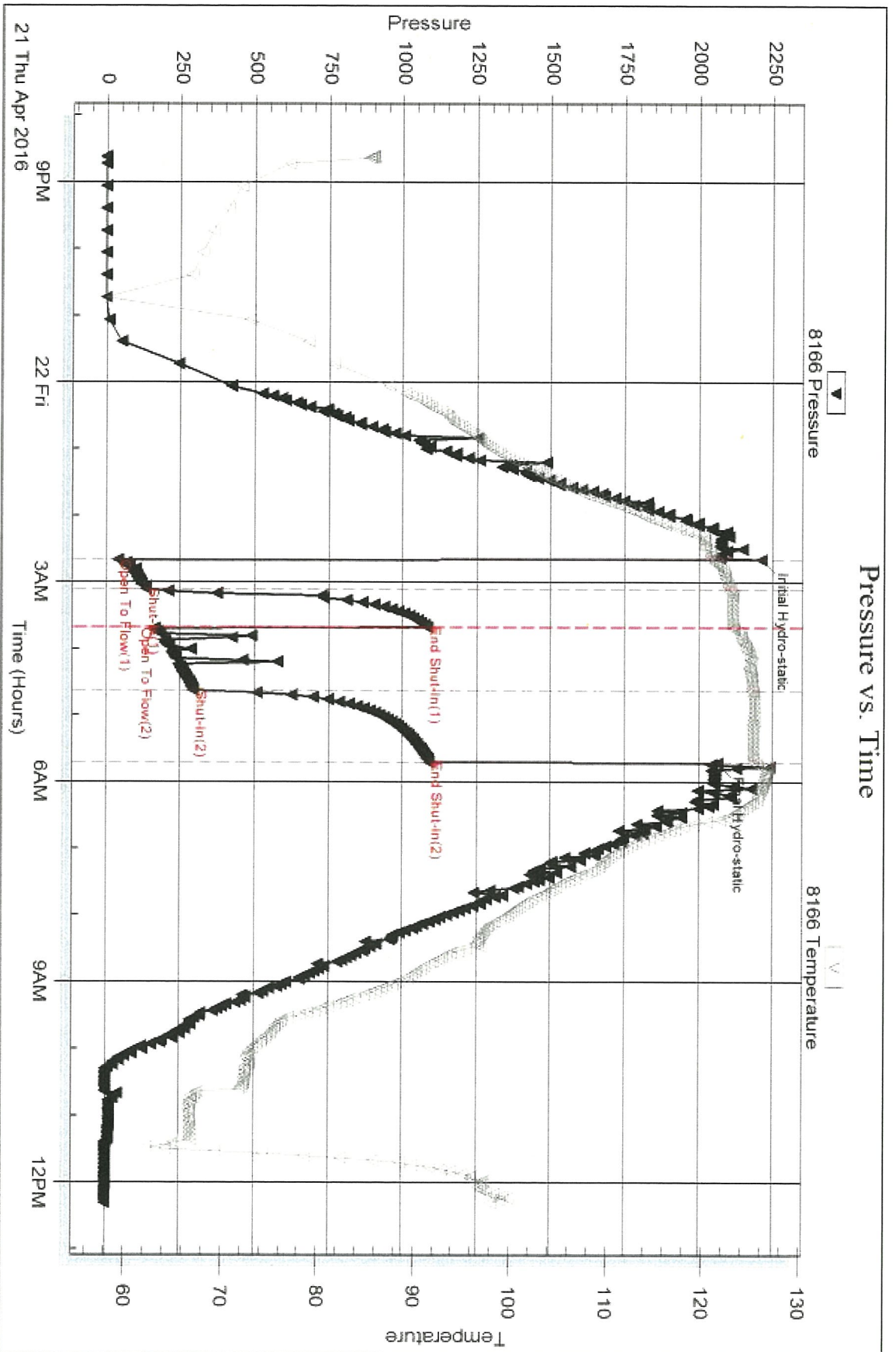
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
579.00	mud some oil spots 100%m	3.002

Total Length: 579.00 ft Total Volume: 3.002 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

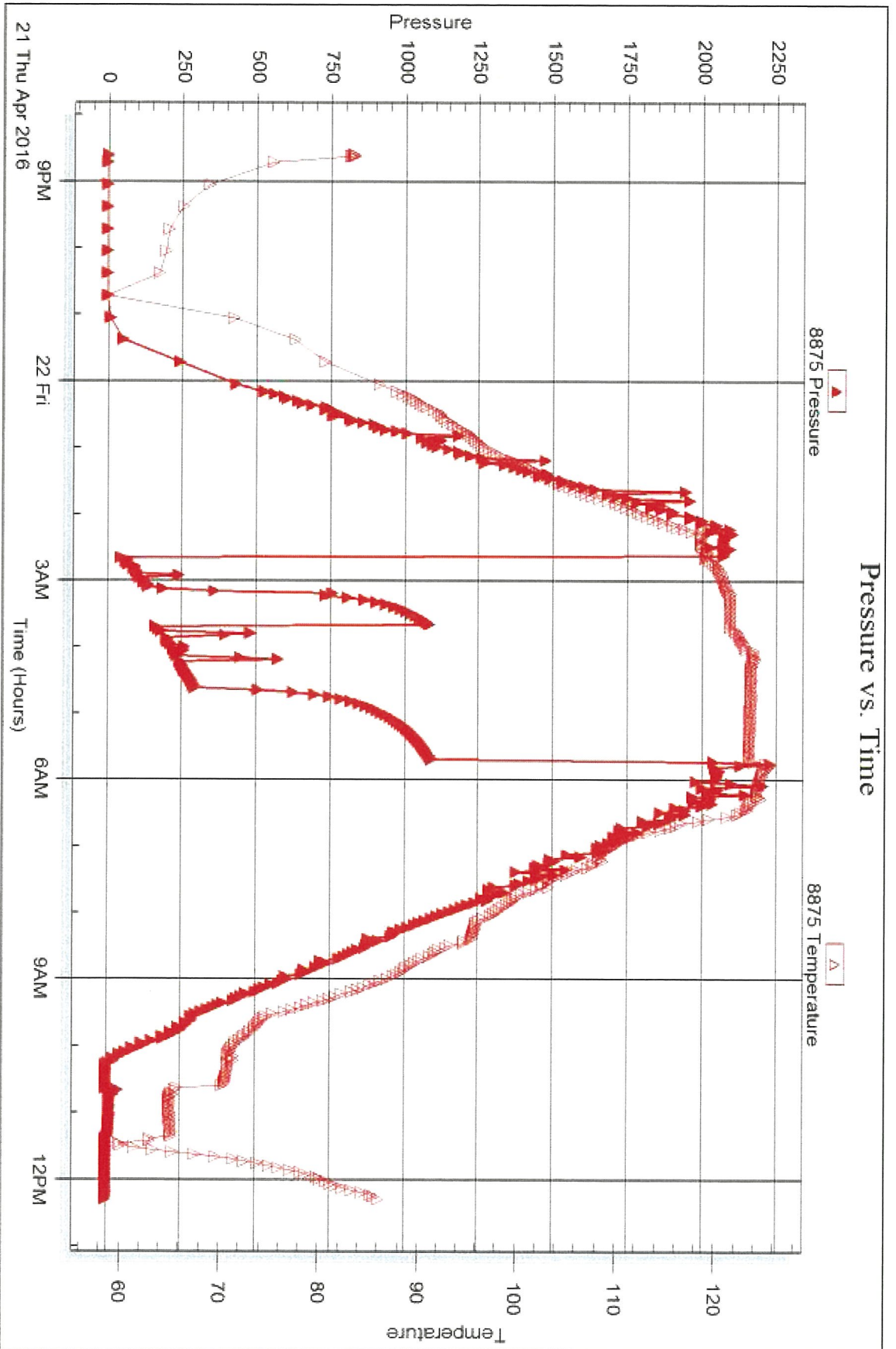


Serial #: 8875

Inside Palomino

Pfeifer Trust #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 64543

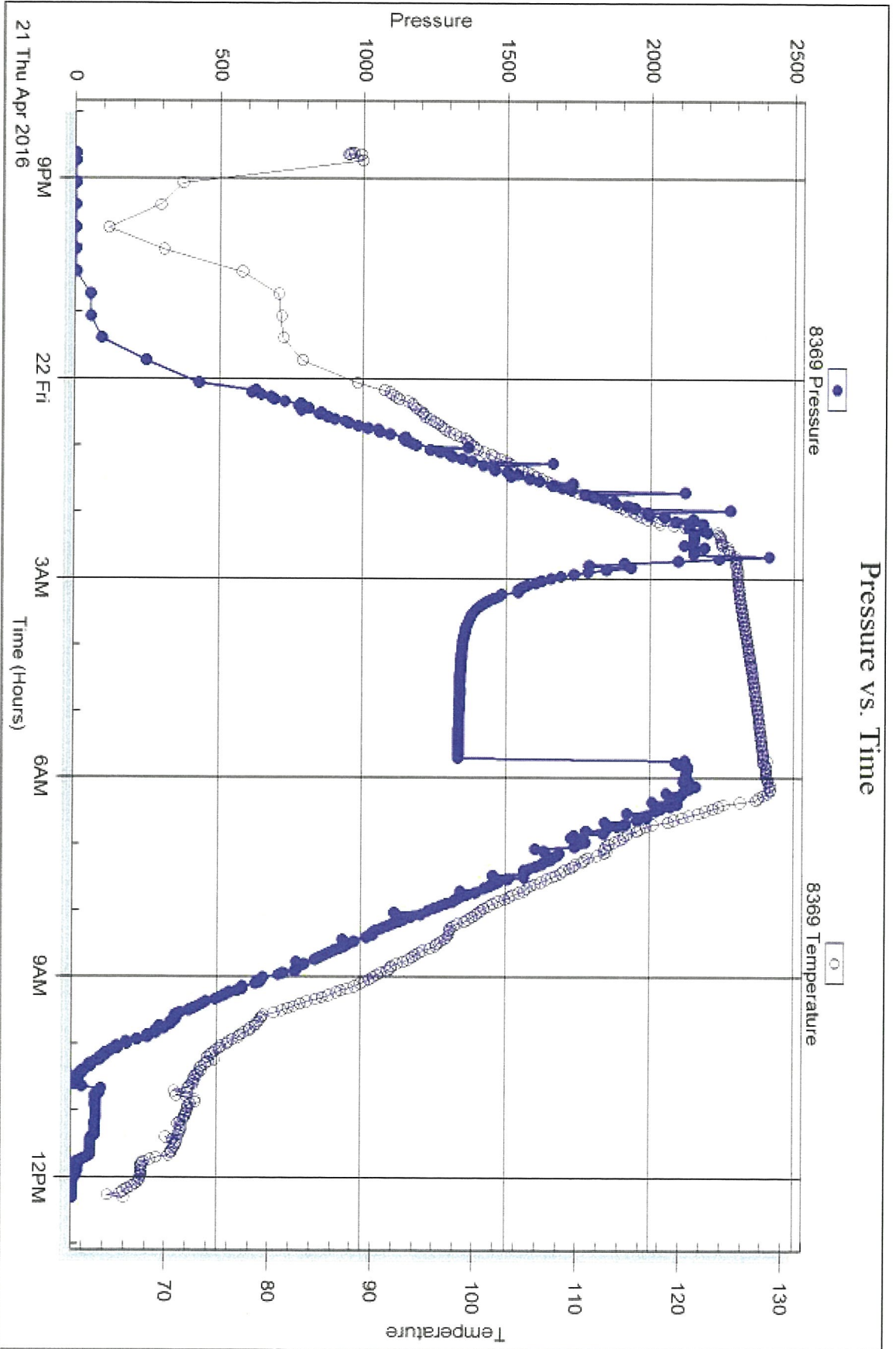
Printed: 2016 04 25 @ 09:39:36

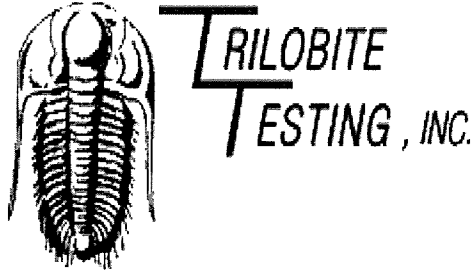
Serial #: 8369

Below (Str Rattenho

Pfeifer Trust #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Palomino**

4924 SE. 84th St
Newton, Ks 67114

ATTN: Andrew Stenzel

Pfeifer Trust #1

31-14s-26w Gove Ks

Start Date: 2016.04.22 @ 12:50:52

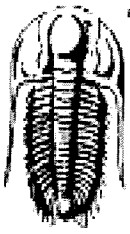
End Date: 2016.04.23 @ 03:00:52

Job Ticket #: 64544 DST #: 4

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

Printed: 2016.04.25 @ 09:27:22

Palomino 31-14s-26w Gove Ks Pfeifer Trust #1 DST # 4 Marmaton 2016.04.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino
4924 SE 84th St
New ton, Ks 67114

ATTN: Andrew Stenzel

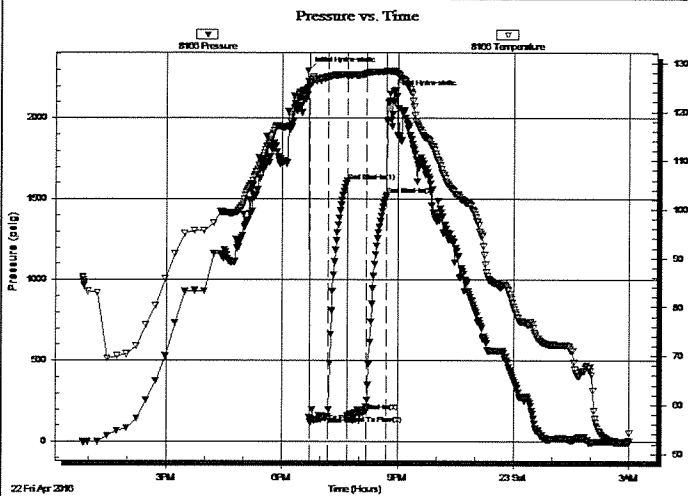
31-14s-26w Gove Ks
Pfeifer Trust #1
Job Ticket: 64544 **DST#: 4**
Test Start: 2016.04.22 @ 12:50:52

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:43:22
Time Test Ended: 03:00:52
Interval: **4076.00 ft (KB) To 4258.00 ft (KB) (TVD)**
Total Depth: 4492.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 2446.00 ft (KB)
2434.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 186.13 psig @ 4077.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.04.22 End Date: 2016.04.23 Last Calib.: 2016.04.23
Start Time: 12:50:57 End Time: 03:00:52 Time On Btm: 2016.04.22 @ 18:40:52
Time Off Btm: 2016.04.22 @ 20:48:22

TEST COMMENT: IF: 1/4" blow built to 3 1/2"
IS: No return.
FF: Surface blow built to 1 1/2."
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2294.19	124.99	Initial Hydro-static
3	122.95	126.01	Open To Flow (1)
31	153.24	127.06	Shut-In(1)
61	1610.50	127.61	End Shut-In(1)
62	159.09	127.19	Open To Flow (2)
90	186.13	127.84	Shut-In(2)
122	1524.90	128.24	End Shut-In(2)
128	2151.68	128.37	Final Hydro-static

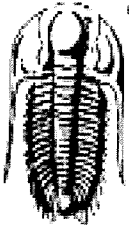
Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 5%o 95%m	0.30
98.00	mud 100%m	0.48

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino
4924 SE 84th St
Newton, Ks 67114

ATTN: Andrew Stenzel

31-14s-26w Gove Ks
Pfeifer Trust #1
Job Ticket: 64544 **DST#: 4**
Test Start: 2016.04.22 @ 12:50:52

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:43:22
Time Test Ended: 03:00:52

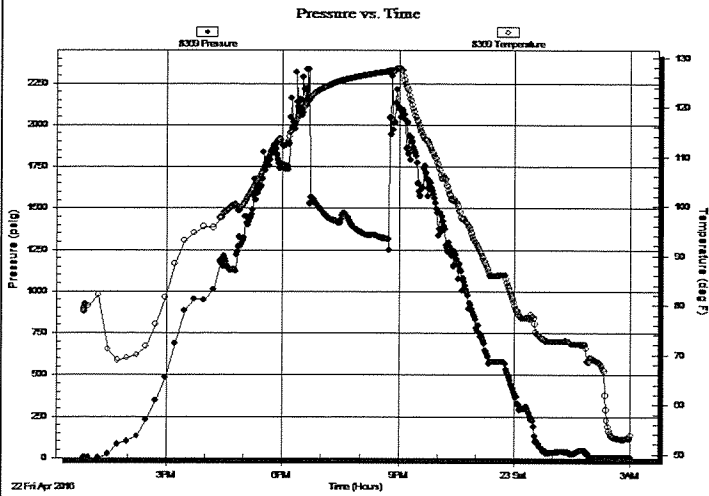
Interval: **4076.00 ft (KB) To 4258.00 ft (KB) (TVD)**
Total Depth: 4492.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Reference Elevations: 2446.00 ft (KB)
2434.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8369 Below (Straddle)
Press@RunDepth: psig @ 4473.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.04.22 End Date: 2016.04.23 Last Calib.: 2016.04.23
Start Time: 12:50:56 End Time: 03:00:51 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 3 1/2"
IS: No return.
FF: Surface blow built to 1 1/2."
FS: No return.



PRESSURE SUMMARY

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

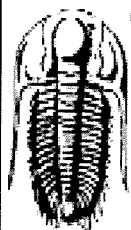
Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 5%o 95%m	0.30
98.00	mud 100%m	0.48

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino
4924 SE. 84th St
Newton, Ks 67114

31-14s-26w Gove Ks

Pfeifer Trust #1

Job Ticket: 64544

DST#: 4

ATTN: Andrew Stenzel

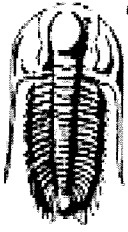
Test Start: 2016.04.22 @ 12:50:52

Tool Information

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 562.00 ft	Diameter: 2.25 inches	Volume: 2.76 bbl	Weight to Pull Loose: 115000.0 lb
			Total Volume: 52.05 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 105000.0 lb
Depth to Top Packer:	4076.00 ft			Final 105000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	403.00 ft			
Tool Length:	425.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4055.00	
Shut In Tool	5.00			4060.00	
Hydraulic tool	5.00			4065.00	
Safety Joint	2.00			4067.00	
Packer	5.00			4072.00	22.00 Bottom Of Top Packer
Packer	4.00			4076.00	
Stubb	1.00			4077.00	
Recorder	0.00	8875	Inside	4077.00	
Recorder	0.00	8166	Outside	4077.00	
Perforations	5.00			4082.00	
Change Over Sub	1.00			4083.00	
Drill Pipe	156.00			4239.00	
Change Over Sub	1.00			4240.00	
Blank Off Sub	1.00			4241.00	
Packer - Shale	5.00			4246.00	
Packer - Shale	4.00			4250.00	
Stubb	1.00			4251.00	
Perforations	2.00			4253.00	
Change Over Sub	1.00			4254.00	
Drill Pipe	219.00			4473.00	
Recorder	0.00	8369	Below	4473.00	
Change Over Sub	1.00			4474.00	
Bullnose	5.00			4479.00	403.00 Bottom Packers & Anchor
Total Tool Length:	425.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino
4924 SE. 84th St
New ton, Ks 67114

ATTN: Andrew Stenzel

31-14s-26w Gove Ks
Pfeifer Trust #1
Job Ticket: 64544 **DST#: 4**
Test Start: 2016.04.22 @ 12:50:52

Mud and Cushion Information

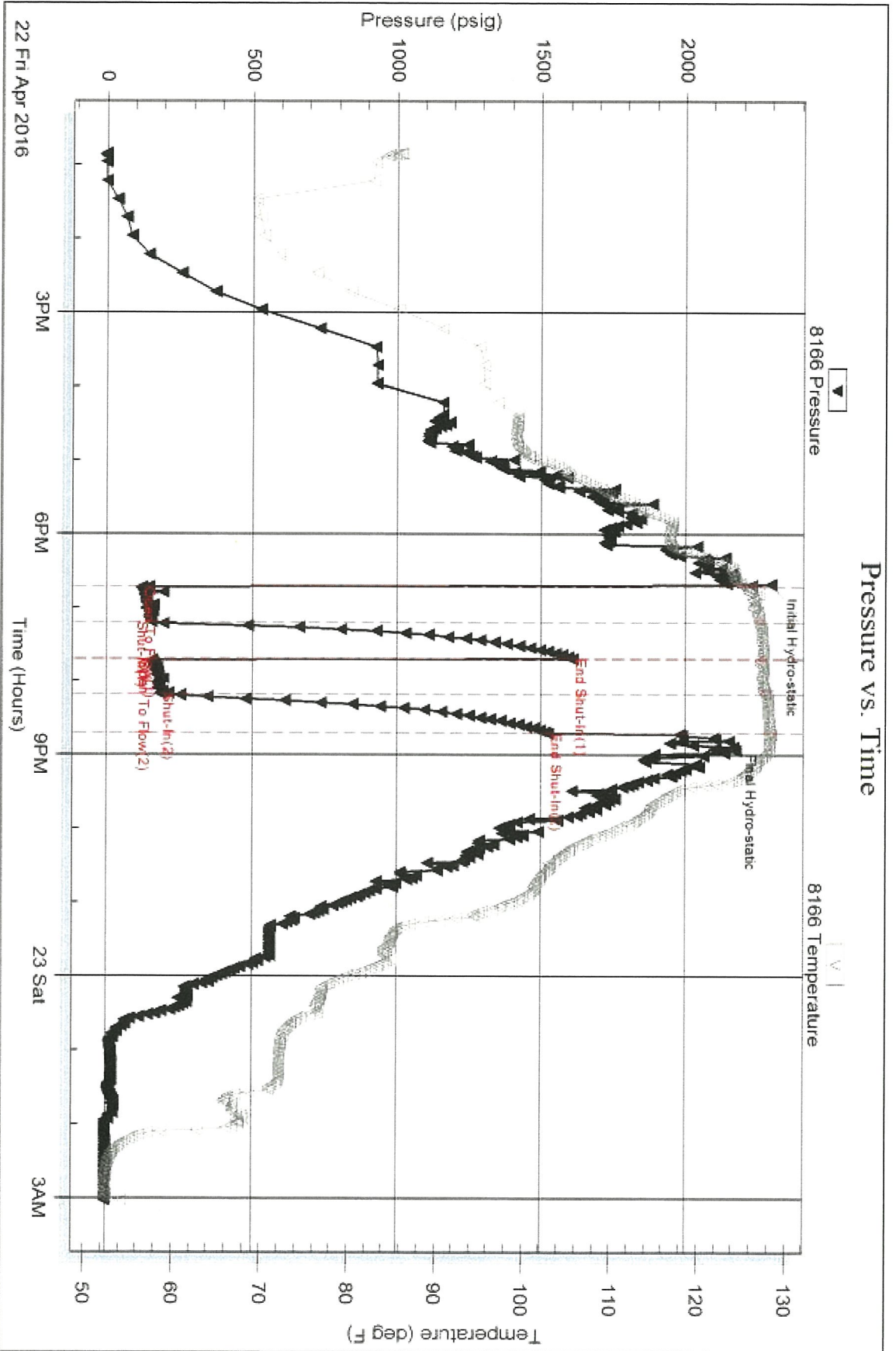
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	ocm 5%o 95%m	0.305
98.00	mud 100%m	0.482

Total Length: 160.00 ft Total Volume: 0.787 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



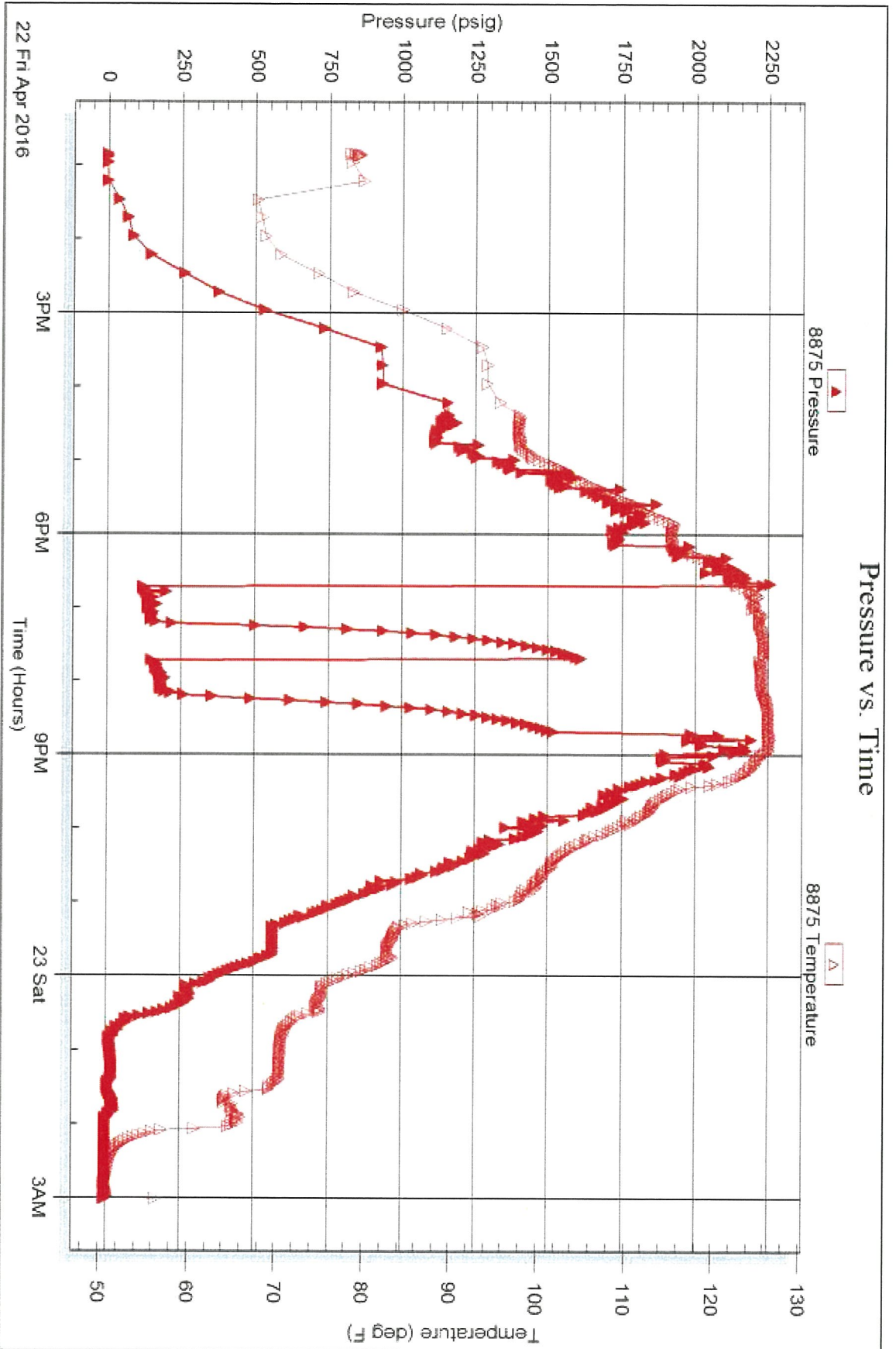
Serial #: 8875

Inside

Palomino

Preifer Trust #1

DST Test Number: 4

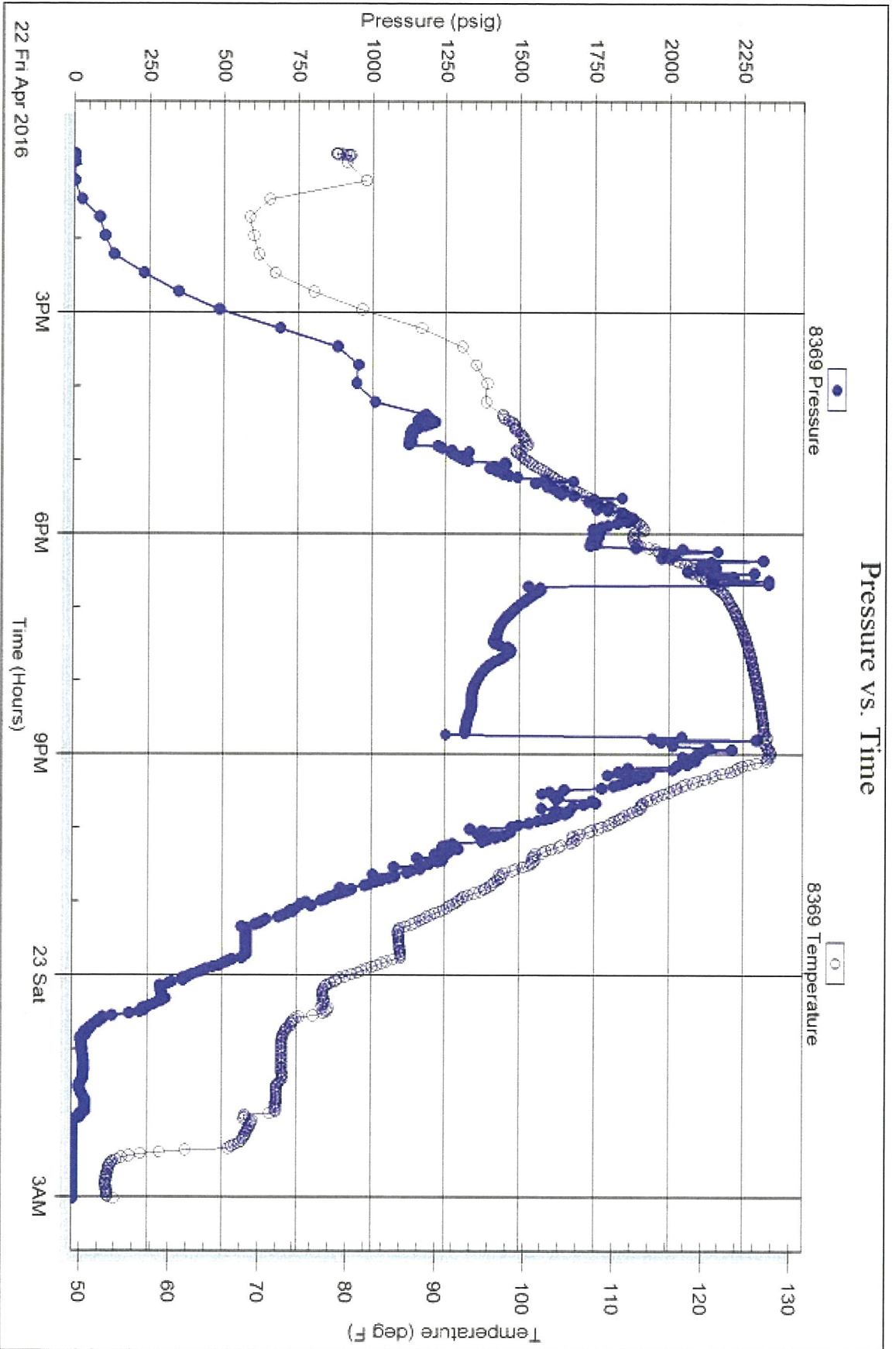


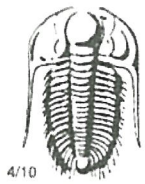
Serial #: 8369

Below (Str Rattenho

Pfeifer Trust #1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64541

Well Name & No. Pfeifer Trust #1 Test No. 1 Date 4-17-16
 Company PALOMINO Elevation 2446 KB 2434 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW#16
 Location: Sec. 31 Twp. 14S Rge. 26W Co. Gove State KS

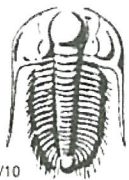
Interval Tested 3904 3972 Zone Tested Linsing I-J
 Anchor Length 68 Drill Pipe Run ~~3320~~ 3320 Mud Wt. 9.0
 Top Packer Depth 3899 Drill Collars Run ~~562~~ 562 Vis 51
 Bottom Packer Depth 3904 Wt. Pipe Run --- WL 7.2
 Total Depth 3972 Chlorides 2300 ppm System LCM 1
 Blow Description 1/4 blow built to 5 1/4.
No return.
1/4 blow built to 6.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
<u>624</u>	<u>Water</u>		<u>100</u>		

Rec Total 810 BHT 124 Gravity --- API RW -18 @ 47 °F Chlorides 65,000 ppm
 (A) Initial Hydrostatic 1849 Test _____ T-On Location 3:40
 (B) First Initial Flow 34 Jars _____ T-Started 6:59
 (C) First Final Flow 243 Safety Joint _____ T-Open 15:21
 (D) Initial Shut-In 888 Circ Sub NIC T-Pulled 18:21
 (E) Second Initial Flow 251 Hourly Standby 11.25 = 900.00 T-Out 00:02
 (F) Second Final Flow 408 Mileage 130- Comments No stairs
 (G) Final Shut-In 901 Sampler _____ and cut with is
 (H) Final Hydrostatic 1823 Straddle _____ 25 + 9/11 95 truck
 Shale Packer _____ 4:30 on DMK
 Extra Packer _____ Ruined Shale Packer _____
 Extra Recorder _____ Ruined Packer _____
 Day Standby _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60 Accessibility _____
 Sub Total _____

Approved By [Signature] Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of 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

NO. **64542**

Well Name & No. Pfeifer Trust #1 Test No. 2 Date 4-18-16
 Company Palomino Elevation 2446 KB 2434 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW #16
 Location: Sec. 31 Twp. 14S Rge. 26W Co. Gove State KS

Interval Tested ~~3965~~ 3965 4025 Zone Tested Lensing K-L
 Anchor Length 60 Drill Pipe Run 3382 Mud Wt. 9.2
 Top Packer Depth 3960 Drill Collars Run 562 Vis 53
 Bottom Packer Depth 3965 Wt. Pipe Run _____ WL 8.0
 Total Depth 4025 Chlorides 4400 ppm System LCM 3

Blow Description IF: 1/4 blow died in 9 min.
IS: No return,
FF: No blow.
FS: No return.

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

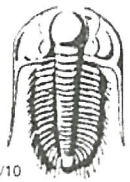
Rec Total 5 BHT 124 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2051 Test _____ T-On Location 16:30
 (B) First Initial Flow 18 Jars _____ T-Started 18:32
 (C) First Final Flow 21 Safety Joint _____ T-Open 2:22
 (D) Initial Shut-In 244 Circ Sub N/L T-Pulled 4:22
 (E) Second Initial Flow 21 Hourly Standby 7.5-600.00 T-Out 9:55
 (F) Second Final Flow 22 Mileage 130- Comments on the bank
 (G) Final Shut-In 123 Sampler _____ gt 5:00
 (H) Final Hydrostatic 1980 Straddle _____

initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____ Sub Total _____
 Accessibility _____ Total _____
 Sub Total _____ 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

Test Ticket

NO. **64543**

Well Name & No. Pfeifer Trust #1 Test No. 3 Date 4-20-16
 Company Palomino Elevation 2446 KB 2434 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW #16
 Location: Sec. 31 Twp. 14S Rge. 26W Co. Gove State Ks

Interval Tested 4247 4370 Zone Tested MISS
 Anchor Length 123 Drill Pipe Run 3671 Mud Wt. 9.4
 Top Packer Depth 4247 Drill Collars Run 562 Vis 54
 Bottom Packer Depth 4370 Wt. Pipe Run _____ WL 7.2
 Total Depth 4492 Chlorides 2500 ppm System LCM 3

Blow Description IF: 1/4 blow built to 7.
IS: No return.
FK: 1/4 blow built to 9 1/2.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>579</u>	<u>mud some oil spots</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

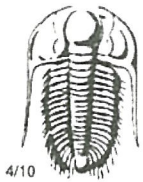
Rec Total 579 BHT 125 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2210 Test _____ T-On Location 20:30/20:20
 (B) First Initial Flow 38 Jars _____ T-Started ~~23:19~~ 20:36
 (C) First Final Flow 134 Safety Joint _____ T-Open 2:39
 (D) Initial Shut-In 1083 Circ Sub NIL T-Pulled 5:39
 (E) Second Initial Flow 162 Hourly Standby 18.5-1480.00 T-Out 12:20
 (F) Second Final Flow 293 Mileage 130-x2 Comments ready 8:30
 (G) Final Shut-In 1088 Sampler _____ 9:00am made the call
 (H) Final Hydrostatic 2063 Straddle _____ to condition the hole.

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 initial Open 30 Shale Packer x2
 initial Shut-In 30 Extra Packer _____
 Final Flow 60 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____
 Sub Total _____ MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64544**

Well Name & No. Pfeifer Trust #1 Test No. 4 Date 4-22-16
 Company Palomino Elevation 2446 KB 2434 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW #16
 Location: Sec. 31 Twp. 145 Rge. 26W Co. Gove State KS

Interval Tested ~~4078~~ 4076 4258 Zone Tested Marmaton
 Anchor Length 182 Drill Pipe Run 3514 Mud Wt. 9.3
 Top Packer Depth 4076 Drill Collars Run 562 Vis 51
 Bottom Packer Depth 4258 Wt. Pipe Run _____ WL 8.8
 Total Depth 4492 Chlorides 3300 ppm System LCM 2

Blow Description IF: 1/2 blow built to 3 1/2.
IS: No return.
FF: Surface blow built to 1 1/2.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>98</u>	<u>mud</u>			<u>100</u>	
<u>62</u>	<u>ocm</u>	<u>5</u>		<u>95</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 160 BHT 128 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2294</u>	<input checked="" type="checkbox"/> Test _____	T-On Location <u>12:20</u>
(B) First Initial Flow <u>122</u>	<input checked="" type="checkbox"/> Jars _____	T-Started <u>12:50</u>
(C) First Final Flow <u>153</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>18:40</u>
(D) Initial Shut-In <u>1610</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>20:40</u>
(E) Second Initial Flow <u>159</u>	<input checked="" type="checkbox"/> Hourly Standby <u>4.75-380.00</u>	T-Out <u>3:00</u>
(F) Second Final Flow <u>186</u>	<input type="checkbox"/> Mileage _____	Comments _____
(G) Final Shut-In <u>1524</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2151</u>	<input checked="" type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>X2</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input checked="" type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total _____
	<input checked="" type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total _____	

Approved By _____ Our Representative [Signature]

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