

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	NICHOL 3
Doc ID	1450254

Tops

Name	Top	Datum
Anhy.	1833	(+ 534)
Base Anhy.	1870	(+ 497)
Heebner	3622	(-1255)
Toronto	3642	(-1275)
Lansing	3660	(-1293)
BKC	3940	(-1573)
Marmaton	3953	(-1586)
Pawnee	4082	(-1715)
Ft. Scott	4147	(-1780)
Cherokee Sh.	4171	(-1804)
Miss.	4261	(-1894)
LTD	4334	(-1967)



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE:785-324-1041 FAX:785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 12/21/2018
 Invoice # 1097
 P.O.#:
 Due Date: 1/20/2019
 Division: *Russell*

RECEIVED
 DEC 24 2018

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 NICHOL 3 SEC 21-14-25

Description of Work:
 PLUG JOB

Cement for plugging on #3

12/21

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 657.71	Yes				
Common-Class A	144	\$ 2,186.77	Yes				
POZ Mix-Standard	96	\$ 495.38	Yes				
Premium Gel (Bentonite)	9	\$ 192.40	Yes				
Bulk Truck Matl-Material Service Charge	249	\$ 183.56	Yes				
Pump Truck Mileage-Job to Nearest Camp	41	\$ 136.01	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	41	\$ 105.79	Yes				
Flo Seal	60	\$ 88.46	Yes				
Dry Hole Plug	1	\$ 61.92	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,108.01
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (102.70)

SubTotal for Taxable Items:	\$ 4,005.31
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 4,005.31
Tax:	\$ 320.42

8.00% Trego County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,325.73
Applied Payments:
Balance Due: \$ 4,325.73

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1097

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-21-18	21	14	25	Trego	KS		3,000m 3,000m
Lease <u>Nichol</u>				Well No. <u>3</u>		Owner	
Contractor <u>Uglw #12</u>				To Quality Oilwell Cementing, Inc.			
Type Job <u>Rotary Plug</u>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <u>7 7/8</u>		T.D. <u>4333</u>		Charge To <u>Palamino Petroleum</u>			
Csg.	Depth		Street				
Tbg. Size	Depth		City		State		
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered <u>240 @ 4/102 1/4 #10</u>			
Meas Line		Displace					
EQUIPMENT				Common <u>144</u>			
Pumptrk <u>5</u>	No.	Cement		Poz. Mix <u>96</u>			
		Helper		Gel. <u>9</u>			
Bulktrk	No.	Driver		Calcium			
		Driver		Hulls			
Bulktrk <u>15</u>	No.	Driver		Salt			
		Driver		Flowseal <u>60#</u>			
JOB SERVICES & REMARKS				Kol-Seal			
Remarks:				Mud CLR 48			
Rat Hole <u>30SK</u>				CFL-117 or CD110 CAF 38			
Mouse Hole				Sand			
Centralizers				Handling <u>249</u>			
Baskets				Mileage			
D/V or Port Collar				FLOAT EQUIPMENT <u>8 7/8</u>			
<u>1st</u>	<u>1850</u>	<u>50SK</u>		Guide Shoe <u>Dry Hole Plug</u>			
<u>2nd</u>	<u>885</u>	<u>100SK</u>		Centralizer			
<u>3rd</u>	<u>270</u>	<u>50SK</u>		Baskets			
<u>4th</u>	<u>40'</u>	<u>10SK</u>		AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge <u>plug</u>			
				Mileage <u>41</u>			
Signature <u>[unclear]</u>						Tax	
						Discount	
						Total Charge	

QUALITY OILWELL CEMENTING, INC.

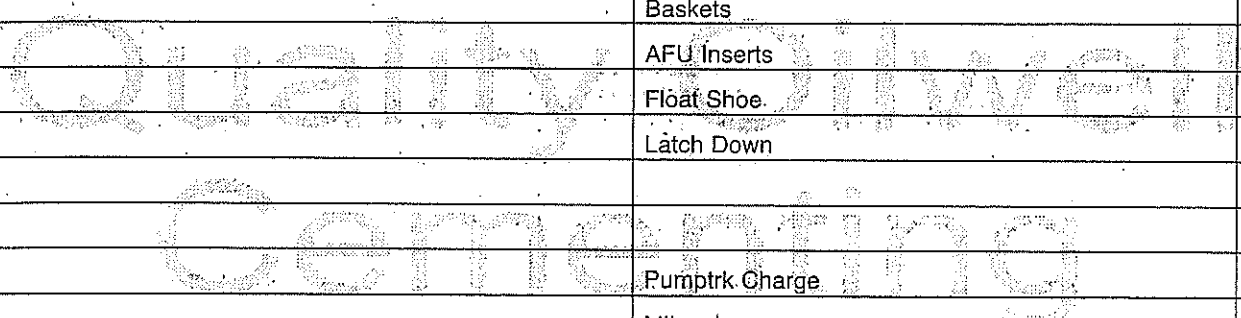
Federal Tax I.D.# 20-2886107

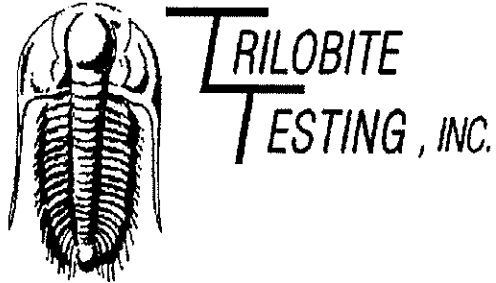
Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1087

Date <u>12-13-18</u>	Sec. <u>21</u>	Twp. <u>14</u>	Range <u>25</u>	County <u>Trap</u>	State <u>KS</u>	On Location	Finish <u>8:30</u>
				Location <u>Collar 145 Bine</u>			
Lease <u>Michol</u>		Well No. <u>3</u>		Owner:			
Contractor <u>WW #12</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job <u>Subwell</u>							
Hole Size <u>12 1/4</u>		T.D. <u>218</u>		Charge To <u>Valomine</u>			
Csg. <u>8 5/8</u>		Depth <u>217</u>		Street			
Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. <u>10</u>		Shoe Joint		Cement Amount Ordered <u>1100 @ 3/11 2/16/18</u>			
Meas Line		Displace. <u>1336</u>					
EQUIPMENT				Common			
Pumptrk <u>20</u>	No.	Cementer		Poz. Mix			
		Helper					
Bulktrk	No.	Driver		Gel.			
		Driver					
Bulktrk <u>15</u>	No.	Driver		Calcium			
		Driver					
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
<u>8 5/8 on bottom. Best. Protection 171 x 1/2" of 3/4" inch</u>				Handling			
				Mileage			
<u>Annex Construction</u>				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				Mileage			
<u>[Signature]</u>				Tax			
				Discount			
				Total Charge			





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

Nichol #3

21-14s-25w Trego,KS

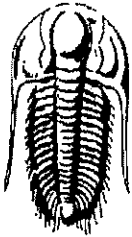
Start Date: 2018.12.18 @ 05:36:16

End Date: 2018.12.18 @ 13:03:16

Job Ticket #: 64310 DST #: 1

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

Printed: 2018.12.21 @ 10:38:41



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

21-14s-25w Trego,KS

4924 SE 84th St
New ton, KS 67114

Nichol #3

Job Ticket: 64310

DST#: 1

ATTN: Ryan Seib

Test Start: 2018.12.18 @ 05:36:16

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:58:16

Time Test Ended: 13:03:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 70

Interval: **3855.00 ft (KB) To 3890.00 ft (KB) (TVD)**

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3890.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GRVCF: 8.00 ft

Serial #: **8166**

Outside

Press@RunDepth: 110.00 psig @ 3856.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.12.18

End Date:

2018.12.18

Last Calib.:

2018.12.18

Start Time: 05:36:21

End Time:

13:03:15

Time On Btm:

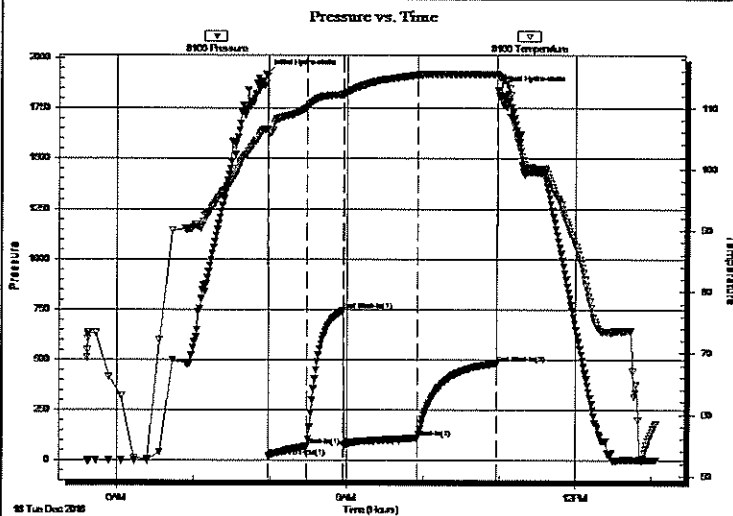
2018.12.18 @ 07:56:16

Time Off Btm:

2018.12.18 @ 10:58:16

TEST COMMENT: IF: 1/4" blow built to 8 1/2"
IS: Surface blow built to 1/4"
FF: 1/4" blow built to 8 3/4"
FS: No return.

PRESSURE SUMMARY



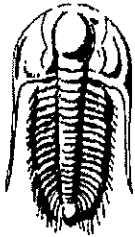
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.83	106.42	Initial Hydro-static
2	18.25	105.93	Open To Flow (1)
32	70.39	110.03	Shut-In(1)
61	743.41	112.17	End Shut-In(1)
61	76.36	112.09	Open To Flow (2)
119	110.00	115.40	Shut-In(2)
181	481.94	115.55	End Shut-In(2)
182	1842.19	115.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcw 90%w 10%m	0.30
120.00	ocw m 5%o 25%w 70%m	0.59
20.00	mco 80%o 20%m	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
New ton, KS 67114
ATTN: Ryan Seib

21-14s-25w Trego,KS

Nichol #3

Job Ticket: 64310

DST#: 1

Test Start: 2018.12.18 @ 05:36:16

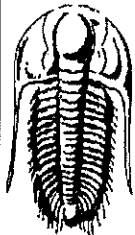
Tool Information

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:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	55000.00 lb
			Total Volume: 52.38 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3855.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	61.00 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			3829.00	
Shut In Tool	5.00			3834.00	
Hydraulic tool	5.00			3839.00	
Jars	5.00			3844.00	
Safety Joint	2.00			3846.00	
Packer	5.00			3851.00	27.00 Bottom Of Top Packer
Packer	4.00			3855.00	
Stubb	1.00			3856.00	
Recorder	0.00	6651	Inside	3856.00	
Recorder	0.00	8166	Outside	3856.00	
Perforations	28.00			3884.00	
Bullnose	5.00			3889.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

21-14s-25w Trego,KS

4924 SE 84th St
New ton, KS 67114

Nichol #3

Job Ticket: 64310

DST#: 1

ATTN: Ryan Seib

Test Start: 2018.12.18 @ 05:36:16

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:

62000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mcw 90%w 10%m	0.295
120.00	ocw m 5%o 25%w 70%m	0.590
20.00	mco 80%o 20%m	0.281

Total Length: 200.00 ft

Total Volume: 1.166 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .18@46=62000

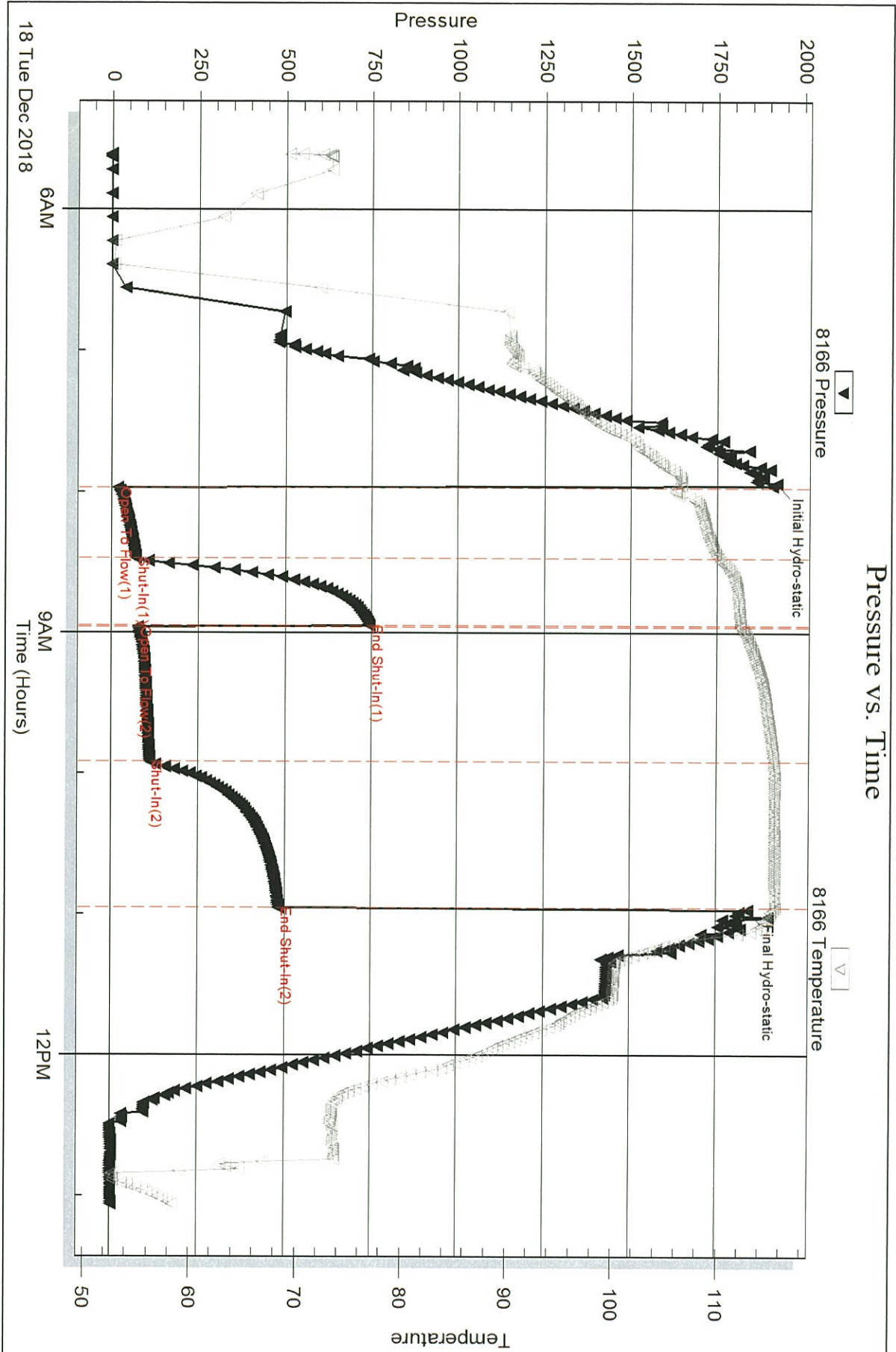
Serial #: 8166

Outside

Palomino Petroleum Inc

Nichol #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64310

Printed: 2018.12.21 @ 10:38:42

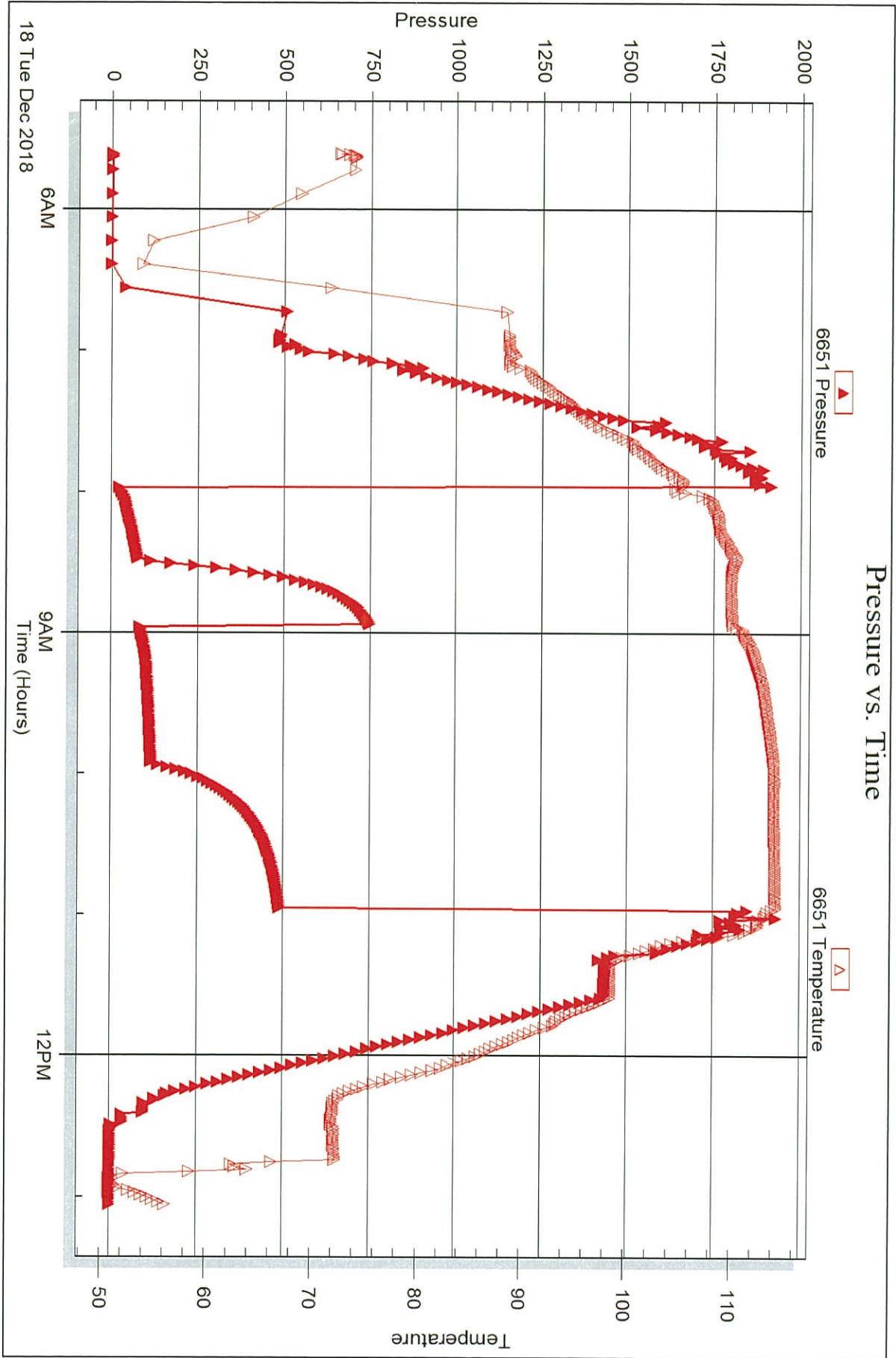
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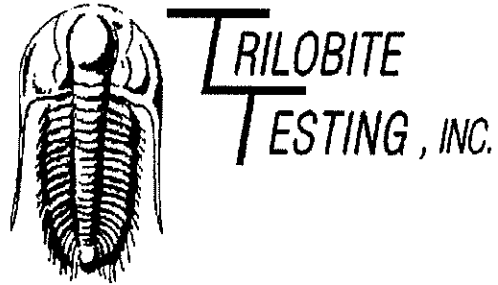
Inside

Palomino Petroleum Inc

Nichol #3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

Nichol #3

21-14s-25w Trego,KS

Start Date: 2018.12.18 @ 23:45:37

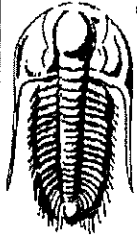
End Date: 2018.12.19 @ 05:52:37

Job Ticket #: 64311 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton, KS 67114
 ATTN: Ryan Seib

21-14s-25w Trego, KS

Nichol #3

Job Ticket: 64311

DST#: 2

Test Start: 2018.12.18 @ 23:45:37

GENERAL INFORMATION:

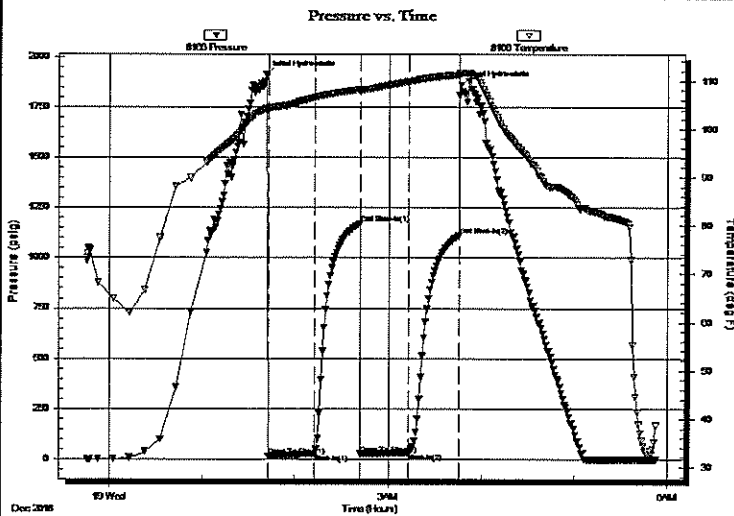
Formation: LKC K-L
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:42:37
 Time Test Ended: 05:52:37
 Interval: 3894.00 ft (KB) To 3947.00 ft (KB) (TVD)
 Total Depth: 3947.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 70
 Reference Elevations: 2367.00 ft (KB)
 2359.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8166

Outside

Press@RunDepth: 32.60 psig @ 3895.00 ft (KB)
 Start Date: 2018.12.18 End Date: 2018.12.19
 Start Time: 23:45:42 End Time: 05:52:36
 Capacity: 8000.00 psig
 Last Calib.: 2018.12.19
 Time On Btm: 2018.12.19 @ 01:41:07
 Time Off Btm: 2018.12.19 @ 03:46:37

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.71	104.23	Initial Hydro-static
2	15.90	103.86	Open To Flow (1)
32	26.66	106.54	Shut-In(1)
61	1171.88	108.18	End Shut-In(1)
61	27.42	107.90	Open To Flow (2)
92	32.60	109.85	Shut-In(2)
124	1110.58	111.20	End Shut-In(2)
126	1857.06	111.61	Final Hydro-static

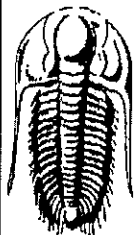
Recovery

Length (ft)	Description	Volume (bbl)
20.00	wcm 5%w 95%m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

21-14s-25w Trego,KS

4924 SE 84th St
New ton, KS 67114

Nichol #3

Job Ticket: 64311

DST#: 2

ATTN: Ryan Seib

Test Start: 2018.12.18 @ 23:45:37

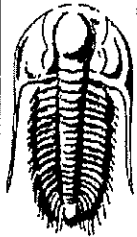
Tool Information

Drill Pipe:	Length: 3703.00 ft	Diameter: 3.80 inches	Volume: 51.94 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 52.83 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3894.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	80.00 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			3868.00	
Shut In Tool	5.00			3873.00	
Hydraulic tool	5.00			3878.00	
Jars	5.00			3883.00	
Safety Joint	2.00			3885.00	
Packer	5.00			3890.00	27.00 Bottom Of Top Packer
Packer	4.00			3894.00	
Stubb	1.00			3895.00	
Recorder	0.00	6651	Inside	3895.00	
Recorder	0.00	8166	Outside	3895.00	
Perforations	16.00			3911.00	
Change Over Sub	1.00			3912.00	
Drill Pipe	31.00			3943.00	
Change Over Sub	1.00			3944.00	
Bullnose	3.00			3947.00	53.00 Bottom Packers & Anchor

Total Tool Length: 80.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

21-14s-25w Trego,KS

4924 SE 84th St
New ton, KS 67114

Nichol #3

Job Ticket: 64311

DST#: 2

ATTN: Ryan Seib

Test Start: 2018.12.18 @ 23:45:37

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: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	w cm 5%w 95%m	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

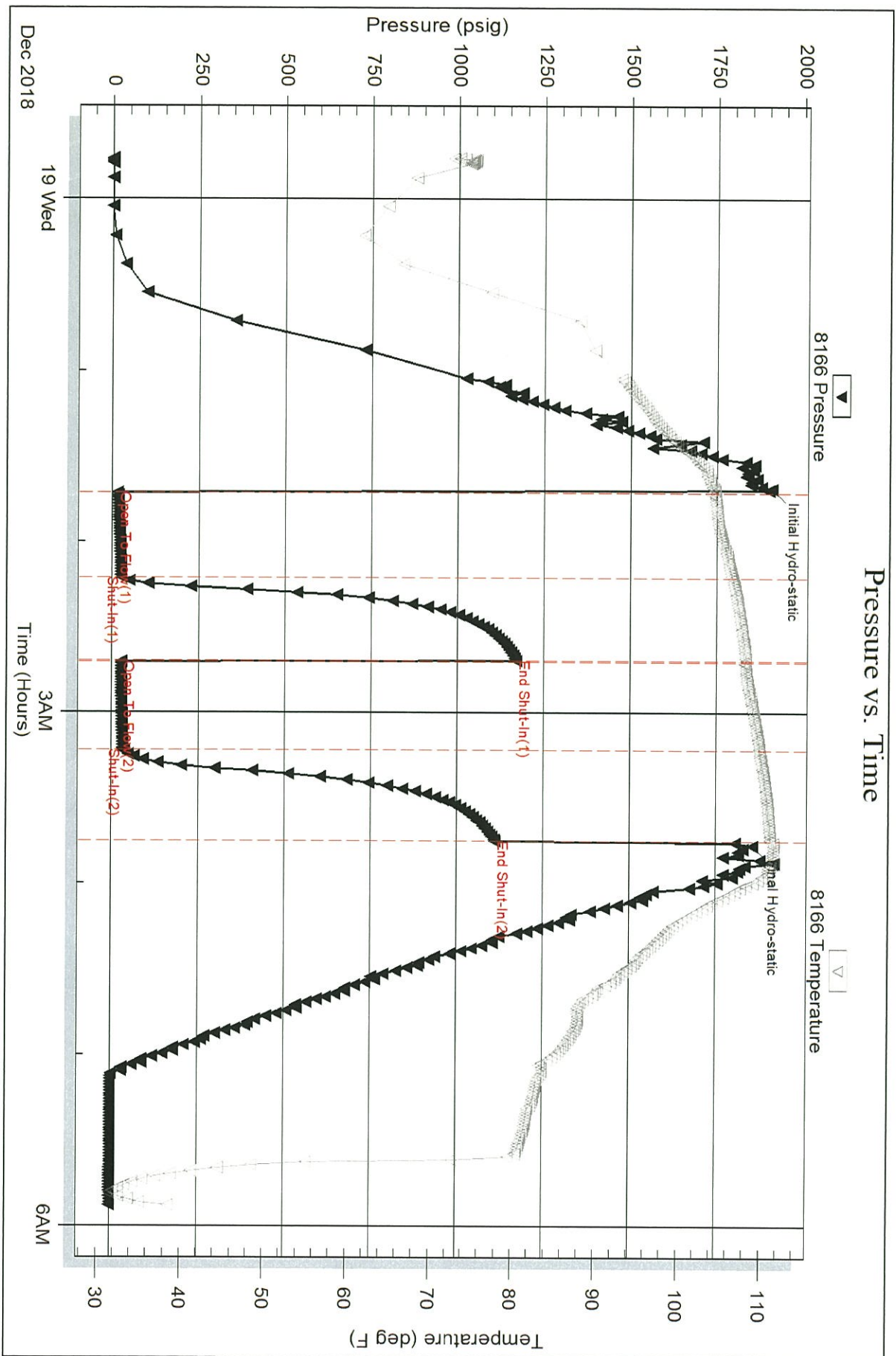
Serial #: 8166

Outside

Palomino Petroleum Inc

Nichol #3

DST Test Number: 2



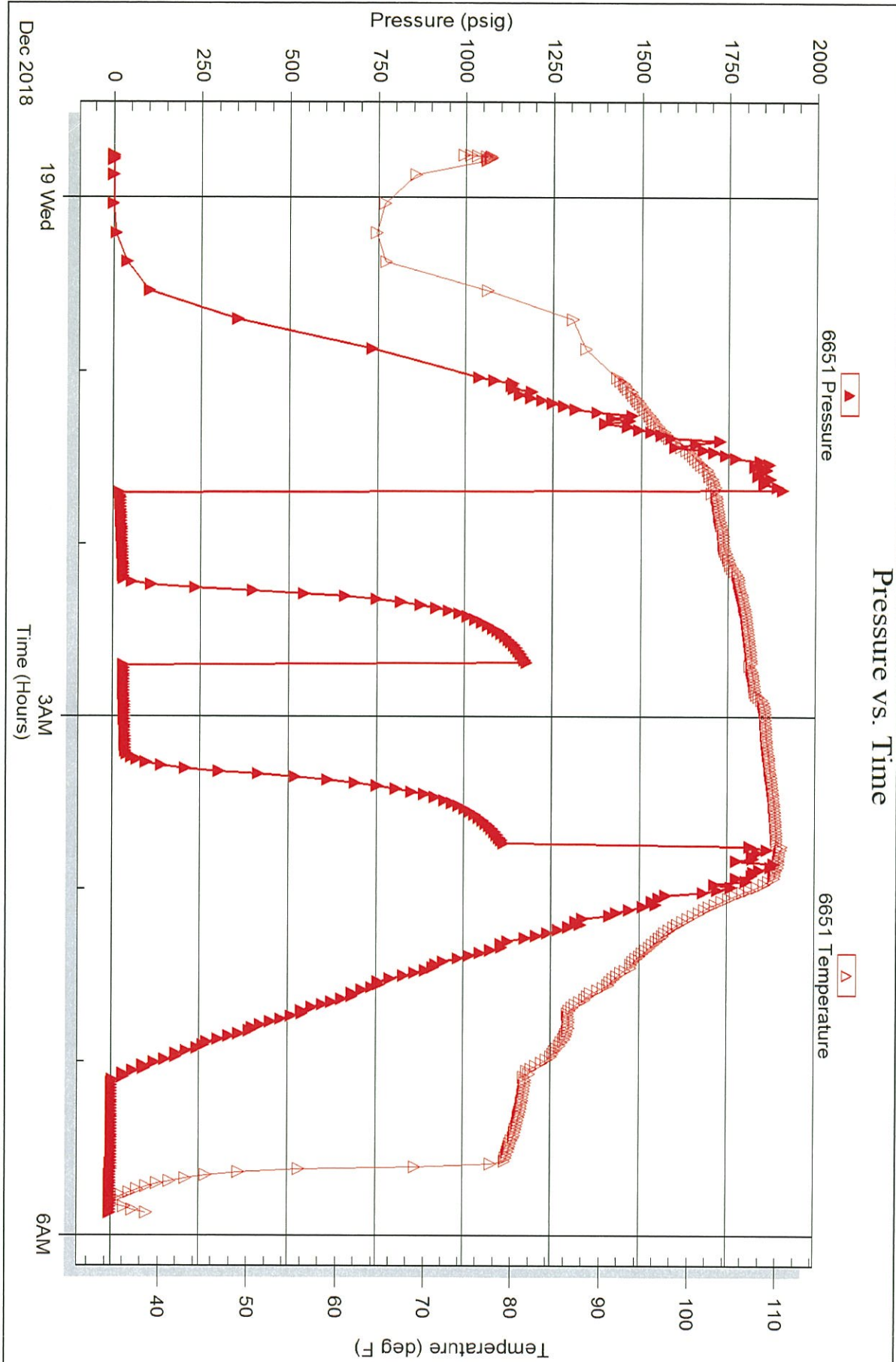
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Inside

Palomino Petroleum Inc

Nichol #3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64311

Printed: 2018.12.21 @ 10:10:19



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64310

Well Name & No. Nichol #3 Test No. 1 Date 12-18-18
 Company Palomino Petroleum Inc Elevation 2367 KB 2359 GL
 Address 4924 SE 84th St Newton KS 67114
 Co. Rep / Geo. Rym Seib Rig WW #12
 Location: Sec. 21 Twp 14S Rge. 25W Co. Trego State KS

Interval Tested 3855 3890 Zone Tested Lansing J
 Anchor Length 35 Drill Pipe Run 3671 Mud Wt. 9.0
 Top Packer Depth 3850 Drill Collars Run 180 Vis 59
 Bottom Packer Depth 3855 Wt. Pipe Run --- WL 6.4
 Total Depth 3890 Chlorides 1700 ppm System LCM 2

Blow Description IF: 1/4 blow built to 8 1/2.
IS: Surface blow built to 1/4.
FF: 1/4 blow built to 8 3/4.
KS: No returns.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>MLW</u>	<u>80</u>		<u>20</u>	
<u>120</u>	<u>OCWM</u>	<u>5</u>	<u>25</u>	<u>70</u>	
<u>60</u>	<u>MCO</u>		<u>90</u>	<u>10</u>	

Rec Total 200 BHT ~~187~~ Gravity --- API RW .18 @ 46° F Chlorides 62000 ppm
 (A) Initial Hydrostatic 1921 Test 1050 T-On Location 2:30
 (B) First Initial Flow 18 Jars 250 T-Started 5:36
 (C) First Final Flow 70 Safety Joint 75 T-Open 7:57
 (D) Initial Shut-In 743 Circ Sub NIC T-Pulled 10:57
 (E) Second Initial Flow 76 Hourly Standby T-Out 13:03
 (F) Second Final Flow 110 Mileage 136-136 Comments _____
 (G) Final Shut-In 481 Sampler _____
 (H) Final Hydrostatic 1842 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1511 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60

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 of 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. 64311

Well Name & No. Nichol #3 Test No. 2 Date 12-18-18
 Company Artemino Petroleum INC Elevation 2367 KB 2359 GL
 Address _____
 Co. Rep / Geo. Ryan Seib Rig WW #12
 Location: Sec. 21 Twp 14S Rge. 25W Co. Trego State KS

Interval Tested 3894 3947 Zone Tested Lansing K&L
 Anchor Length 53 Drill Pipe Run 3703 Mud Wt. 9.3
 Top Packer Depth 3889 Drill Collars Run 180 Vis 46
 Bottom Packer Depth 3894 Wt. Pipe Run _____ WL 8.0
 Total Depth 3947 Chlorides 4800 ppm System LCM 1

Blow Description IF: 1/4 blow built to 2"
IS: No return.
EFI Surface blow built to 1/2.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>wcm</u>		<u>5</u>	<u>95</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 20 BHT 111 Gravity ← API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1909 Test 1050 T-On Location 22:10
 (B) First Initial Flow 15 Jars 250 T-Started 23:45
 (C) First Final Flow 26 Safety Joint 75 T-Open 1:42
 (D) Initial Shut-In 1171 Circ Sub N/U T-Pulled 3:42
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 5:52
 (F) Second Final Flow 32 Mileage 136-X2 136+136 Comments loaded 12-20-18
 (G) Final Shut-In 1110 Sampler _____ 7:00 P.M.
 (H) Final Hydrostatic 1857 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby 1.5d 1.25h
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 800
 Total 2447
 Sub Total 1647
 MP/DST Disc't _____

Approved By _____ 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.

Ryan Seals
Petroleum Geologist

815 E. Tarkenton

Wase City, KS 67580

(785) 792-0398

Palomino Petroleum

Palomino Petroleum

WELL: Nichol #3

FIELD

LOCATION: 2040' ESL + 2230' FEL

SEC. 21 TWP. 14S RBE 25E

COUNTY: Trego STATE: KS

CONTRACTOR: WJ Drilling Co #12

DATE: 12/13/18 TO 12/20/18

WELL NO: 4333' LTO TO

DEPTH: 3400' TO RTD

DEPTH: 3400' TO RTD

DEPTH: 3400' TO RTD

DEPTH: 3400' TO RTD

WELL NO: 15-195-23080

WELL TYPE: Chemical

Anhydrite	1838 (+529)
Heebner	3624 (-1257)
Lansing	3662 (-1295)
BK.C	3941 (-1574)
Marnaton	3853 (-1586)
Lawner	4082 (-1715)
Ft. Scott	4147 (-1780)
Cherokee & L	4173 (-1806)
Mississippian	4253 (-1886)

2367'

2359'

KB

ONLINE REPORT

8 5/8" @

217'

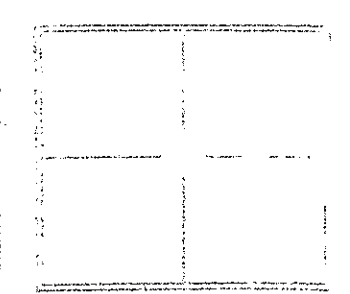
N/A

RTD

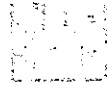
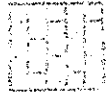
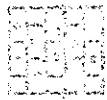
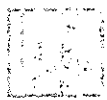
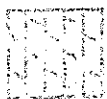
RTD

CND, OIL,

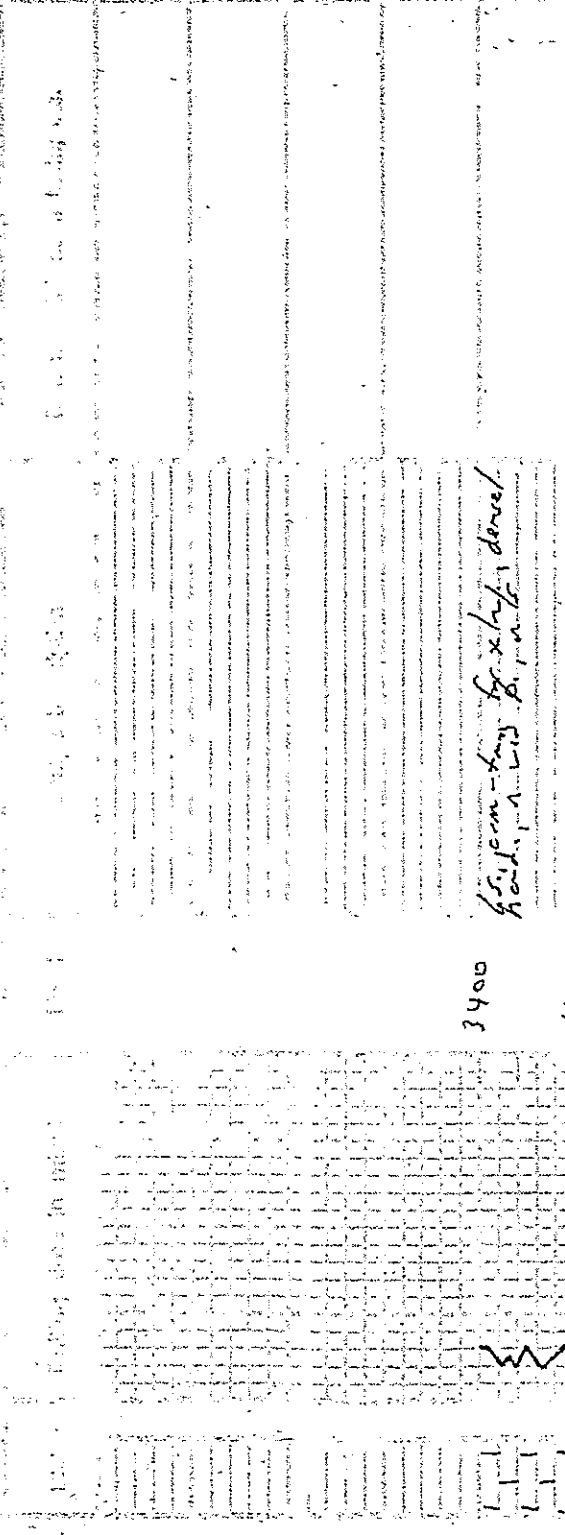
Misc



LEGEND



SCALE: 1" = 100'



55' form - top of x-hydr. domed

3400



