

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
--	---

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: _____
---

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BROWNIE 5
Doc ID	1384134

All Electric Logs Run

Micro
Dual Induction
Borehole Compensated Sonic
Litho Density Neutron
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BROWNIE 5
Doc ID	1384134

Tops

Name	Top	Datum
Anhy.	2278	(+ 543)
Base Anhy.	2310	(+ 511)
Heebner	3867	(-1046)
Toronto	3890	(-1069)
Lansing	3908	(-1087)
Muncie Creek	4060	(-1239)
Stark Sh.	4152	(-1331)
BKC	4223	(-1402)
Pawnee	4349	(-1528)
Myrick Sta.	4378	(-1557)
Ft. Scott	4408	(-1587)
Cherokee Sh.	4433	(-1612)
Miss.	4510	(-1689)
LTD	4660	(1839)





**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: 10/23/2017  
 Invoice # 327

P.O.#:  
 Due Date: 11/22/2017  
 Division: Russell

RECEIVED  
 10/23/17

# Invoice

**Contact:**  
 Palomino Petroleum Inc  
 Address/Job Location:

4924 SE 84th  
 Newton Ks 67114

**Reference:**  
 BROWNIE 5 SEC 18-14-30

**Description of Work:**  
 PORT COLLAR JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 601.97	No				
Multi Density- 80/20	225	\$ 2,656.63	Yes				
Bulk Truck Matl-Material Service Charge	380	\$ 256.39	No				
Flo Seal	100	\$ 134.94	Yes				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 85.01	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 66.12	No				

**Invoice Terms:**

Net 30

SubTotal: \$ 3,801.05  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (95.03)

SubTotal for Taxable Items:	\$ 2,721.78
SubTotal for Non-Taxable Items:	\$ 984.25
<b>Total:</b>	<b>\$ 3,706.02</b>
<b>Tax:</b>	<b>\$ 231.35</b>

8.50% Gove County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 3,937.37**  
**Applied Payments:**  
**Balance Due: \$ 3,937.37**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# 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. 327

Date	10-23-17	Sec.	18	Twp.	14	Range	30	County	Grove	State	KS	On Location		Finish	2:29 p.m.
								Location							
Lease								Well No.		Owner					
Contractor								Well No.		To Quality Oilwell Cementing, Inc.					
Type Job										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								T.D.		Charge To					
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					
Meas Line								Displace		used					
EQUIPMENT										Common					
										Poz. Mix					
Pumptrk								No.		Gel.					
Bulktrk								No.		Calcium					
Bulktrk								No.		Hulls					
JOB SERVICES & REMARKS										Salt					
										Flowseal					
Remarks:										Kol-Seal					
Rat Hole										Mud CLR 48					
Mouse Hole										CFL-117 or CD110 CAF 38					
Centralizers										Sand					
Baskets										Handling					
D/V or Port Collar										Mileage					
Test 5/2 to 1000# open tool & mix 225SK (cement circulate) Displace 11B6 close tool & Pressure to 1000# Run 5 joints & wash clean										FLOAT EQUIPMENT					
										Guide Shoe					
		Centralizer													
		Baskets													
		AFU Inserts													
		Float Shoe													
		Latch Down													
(USED) 225SK										Pumptrk Charge					
										Mileage					
Signature: <i>[Signature]</i>										port collar 28					
										Tax					
										Discount					
										Total Charge					

# SWIFT



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



## Invoice

DATE	INVOICE #
10/17/2017	30525

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

RECEIVED

OCT 23 2017

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5	Brownie	Gove	WW Driling Rig #2	Oil	Development	Long String	David E.

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	60	Miles	5.00	300.00
578D-L	Pump Charge - Long String	1	Job	1,250.00	1,250.00
290	D-Air	4	Gallon(s)	42.00	168.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
403-5	5 1/2" Cement Basket	1	Each	250.00	250.00T
404-5	5 1/2" Port Collar	1	Each	2,500.00	2,500.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	300.00	300.00T
409-5	5 1/2" Turbolizer	12	Each	75.00	900.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)	125	Sacks	15.75	1,968.75T
325	Standard Cement	100	Sacks	12.25	1,225.00T
284	Calseal	5	Sack(s)	30.00	150.00T
283	Salt	400	Lb(s)	0.20	80.00T
285	CFR-1	50	Lb(s)	4.50	225.00T
276	Flocele	57	Lb(s)	2.25	128.25T
581D	Service Charge Cement	225	Sacks	1.50	337.50
583D	Drayage	665	Ton Miles	0.75	498.75
	Subtotal				11,431.25
	Sales Tax Gove County			8.50%	768.83

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$12,200.08
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Services, Inc.

CHARGE TO: Petroleum  
ADDRESS: Petroleum

CITY, STATE, ZIP CODE

TICKET 30525

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Hays Co</u>	<u>#5</u>	<u>Brown</u>	<u>Gove</u>	<u>Ks</u>		<u>10-17-17</u>	
2. <u>Ness City Ks</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Low Drilling</u>	RIG NAME/NO. <u>Log # 02</u>	SHIPPED VA <u>05</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>long string</u>		WELL PERMIT NO.	WELL LOCATION	
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
<u>#5</u>					<u>MILEAGE Trk # 111</u>	<u>60</u>	<u>M1</u>				<u>5</u>	<u>300</u>
					<u>Pump Charge - long string</u>	<u>1</u>	<u>EA</u>				<u>1250</u>	<u>1250</u>
					<u>A-Air</u>	<u>4</u>	<u>Cin</u>				<u>42</u>	<u>168</u>
					<u>liquid bar</u>	<u>4</u>	<u>Gal</u>				<u>25</u>	<u>100</u>
					<u>mudflush</u>	<u>500</u>	<u>Gal</u>				<u>1</u>	<u>625</u>
					<u>Permit Basket</u>	<u>1</u>	<u>EA</u>		<u>5 1/2</u>		<u>250</u>	<u>250</u>
					<u>Port Collar</u>	<u>1</u>	<u>EA</u>				<u>2500</u>	<u>2500</u>
					<u>latch down Plug &amp; Baffle</u>	<u>1</u>	<u>EA</u>				<u>225</u>	<u>225</u>
					<u>Invert Foot Shoe w/ auto fill</u>	<u>1</u>	<u>EA</u>				<u>300</u>	<u>300</u>
					<u>Turbolizer</u>	<u>12</u>	<u>EA</u>				<u>75</u>	<u>900</u>
					<u>Rotating Head w/ seal</u>	<u>1</u>	<u>EA</u>				<u>200</u>	<u>200</u>

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

**MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS**

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_  A.M.  P.M.

SWIFT OPERATOR: David Edgerston APPROVAL: \_\_\_\_\_

**REMIT PAYMENT TO:**  
SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGRE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

TOTAL: 12200 08

TAX: 85910

GOVE: 768

TAME: 11431

TOTAL: 12200 08

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

**TICKET CONTINUATION**

CUSTOMER: Valommo Petroleum  
WELL: Brown # 5  
DATE: 10-17-17  
TICKET No. 30525  
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				DATE	UNIT PRICE	AMOUNT						
		LOC	ACCT	DF			QTY	U/M	QTY	U/M									
330																			
325																			
284																			
283																			
285																			
276																			
581																			
SERVICE CHARGE							CUBIC FEET	225	SHS				1	60	337	50			
MILEAGE CHARGE							TOTAL WEIGHT	2157						75	498	75			
							LOADED MILES	60						75					
							TON MILES	665						75					
													<b>CONTINUATION TOTAL</b>			4613	88		

JOB LOG

SWIFT Services, Inc.

DATE 10-17-17 PAGE NO.

CUSTOMER Palomares Petro WELL NO. #5 LEASE Brownie JOB TYPE Long String TICKET NO. 30525

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	700							On location w/ float equip
								Csg - 5 1/2 x 14#
								Rtb - 4654'
								Brake @ 4611'
								Centralizers - 1, 3, 4, 6, 7, 9, 12, 13, 15, 17
								18 + 57
								Basket - 58
								Port Collar - 58 @ 2245
	1100							Start running Csg
	1305							break circ on bottom
	1400	2.5	11			0		Plug rat Hole - 30 sks SMD @ 12.5ppg
	1405	6	12			300		Pump mud flush - 500 gal
		6	20			300		Pump kcal spacer
	1415	6	0			300		Start CMT - 95 sks SMD @ 12.5ppg
		6	36			150		switch CMT - 100 sks EA-2 @ 15.5ppg
		6	60			100		End CMT
								Drop plug / wash p/L
	1430	6.5	0			0		Start Disp.
	1455	6	112.5			700		land plug - lift psi - 700
								land psi - 1400
	1500							Release psi - Dry
								Thanks
								David, Zach & Kirby



RECEIVED

OCT 07 2017

**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: 10/3/2017  
 Invoice # 311

P.O.#:  
 Due Date: 11/2/2017  
 Division: *Russell*

# Invoice

**Contact:**  
 Palomino Petroleum Inc  
 Address/Job Location:

4924 SE 84th  
 Newton Ks 67114

**Reference:**  
 BROWNIE 5 SEC 18-14-30

**Description of Work:**  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 601.97	No				
Common-Class A	120	\$ 1,667.86	Yes				
Calcium Chloride	6	\$ 226.70	Yes				
POZ Mix-Standard	30	\$ 141.69	Yes				
Bulk Truck Matl-Material Service Charge	159	\$ 107.28	No				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 85.01	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 66.12	No				
Premium Gel (Bentonite)	3	\$ 58.70	Yes				

**Invoice Terms:**

Net 30

	<i>SubTotal:</i>	\$ 2,955.32
	<i>Discount Available ONLY if Invoice is Paid &amp; Received within listed terms of invoice:</i>	\$ (73.88)
<hr/>		
	SubTotal for Taxable Items:	\$ 2,042.57
	SubTotal for Non-Taxable Items:	\$ 838.87
<hr/>		
	Total:	\$ 2,881.44
	Tax:	\$ 173.62
	<b>Amount Due:</b>	<b>\$ 3,055.06</b>
	<b>Applied Payments:</b>	
	<b>Balance Due:</b>	<b>\$ 3,055.06</b>

8.50% Gove County Sales Tax

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# 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. 311

Date	10-3-17	Sec.	18	Twp.	14	Range	30	County	Lawe	State	KS	On Location		Finish	1:00 AM
Location								Cape 13W 22RD 8 9 1/2 S Rinto							

Lease	Brownie	Well No.	5	Owner	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.										
Contractor	WV #2			Charge To	Palomino Petroleum										
Type Job	Surface			Street											
Hole Size	12 1/4	T.D.	218	City											
Csg.	8 5/8	Depth	217	State											
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.											
Tool		Depth		Cement Amount Ordered	150 8/20 31.42/42										
Cement Left in Csg.	10'	Shoe Joint													

Meas Line Displace 13 BCL

EQUIPMENT				Common 120											
Pumptrk	20	No.	Cement Helper	Poz. Mix 30											
Bulktrk		No.	Driver	Gel. 3											
Bulktrk	15	No.	Driver	Calcium 6											

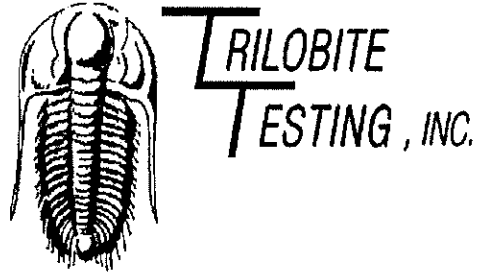
JOB SERVICES & REMARKS				Hulls											
Remarks:				Salt											
Rat Hole				Flowseal											
Mouse Hole				Kol-Seal											
Centralizers				Mud CLR 48											
Baskets				CFL-117 or CD110 CAF 38											
D/V or Port Collar				Sand											
8 5/8 on bottom Est. Circulation.				Handling 159											
Mix 5R + Displace.				Mileage											

FLOAT EQUIPMENT															
Cement Circulated.				Guide Shoe											
				Centralizer											
				Baskets											
				AFU Inserts											
				Float Shoe											
				Latch Down											

				Pumptrk Charge Surface											
				Mileage 28 28											

				Tax											
				Discount											
				Total Charge											

X Signature *[Handwritten Signature]*



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Andrew Stenzel

**Brownie #5**

**18-14-30w Gove,KS**

Start Date: 2017.10.11 @ 01:10:32

End Date: 2017.10.11 @ 08:04:32

Job Ticket #: 64257                      DST #: 1

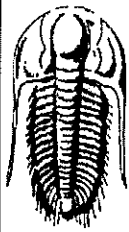
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.17 @ 10:51:21

Palomino Petroleum  
18-14-30w Gove,KS  
Brownie #5  
DST # 1  
Toronto - LKC A  
2017.10.11



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
Newton, KS 67114

**Brownie #5**

Job Ticket: 64257

DST#: 1

ATTN: Anderw Stenzel

Test Start: 2017.10.11 @ 01:10:32

## GENERAL INFORMATION:

Formation: **Toronto - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:27:32

Time Test Ended: 08:04:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **3868.00 ft (KB) To 3910.00 ft (KB) (TVD)**

Reference Elevations: 2821.00 ft (KB)

Total Depth: 3910.00 ft (KB) (TVD)

2816.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8166**

**Outside**

Press@RunDepth: 334.86 psig @ 3869.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.11

End Date: 2017.10.11

Last Calib.: 2017.10.11

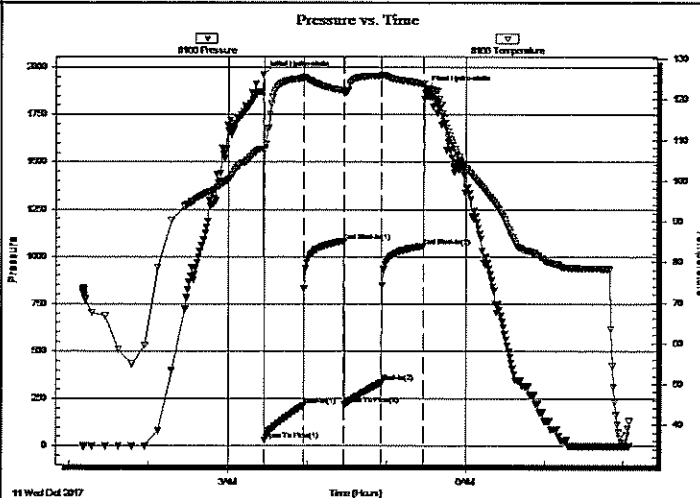
Start Time: 01:10:37

End Time: 08:04:31

Time On Btm: 2017.10.11 @ 03:26:32

Time Off Btm: 2017.10.11 @ 05:29:32

TEST COMMENT: IF: BOB in 6 1/2 mins.  
IS: Surface blow died in 20 min.  
FF: BOB in 8 min.  
FS: Surface blow died in 25 min.



## PRESSURE SUMMARY

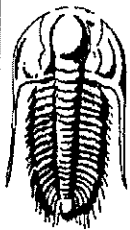
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1960.78	107.76	Initial Hydro-static
1	30.26	107.66	Open To Flow (1)
31	214.11	125.25	Shut-In(1)
61	1081.27	122.02	End Shut-In(1)
62	218.30	121.82	Open To Flow (2)
90	334.86	125.82	Shut-In(2)
121	1055.54	123.80	End Shut-In(2)
123	1885.85	121.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
253.00	mcw 95%w 5%m	2.46
252.00	ocmw 5%o 85%w 10%m	3.53
181.00	ocmw 10%o 50%w 40%m	2.54
10.00	oil 100%o	0.14

## 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: Anderw Stenzel

**18-14-30w Gove, KS**  
**Brownie #5**  
 Job Ticket: 64257      DST#: 1  
 Test Start: 2017.10.11 @ 01:10:32

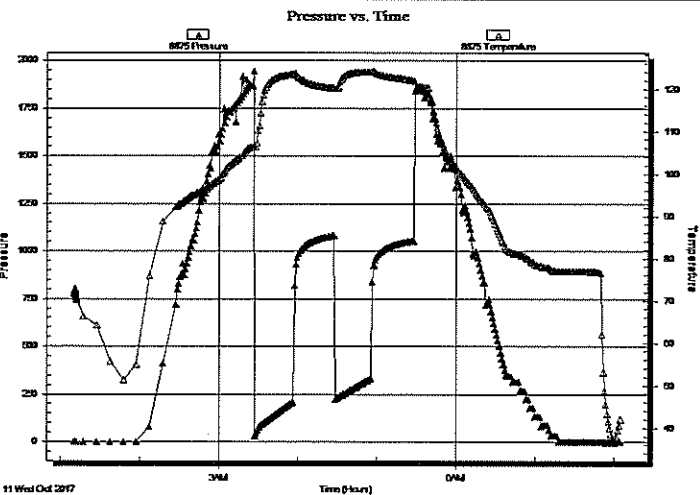
**GENERAL INFORMATION:**

Formation: <b>Toronto - LKC A</b>	
Deviated: <b>No Whipstock:</b> ft (KB)	Test Type: <b>Conventional Bottom Hole (Initial)</b>
Time Tool Opened: <b>03:27:32</b>	Tester: <b>Brandon Turley</b>
Time Test Ended: <b>08:04:32</b>	Unit No: <b>79</b>
<b>Interval: 3868.00 ft (KB) To 3910.00 ft (KB) (TVD)</b>	Reference Elevations: <b>2821.00 ft (KB)</b>
Total Depth: <b>3910.00 ft (KB) (TVD)</b>	<b>2816.00 ft (CF)</b>
Hole Diameter: <b>7.88 inches</b>	Hole Condition: <b>Good</b>
	KB to GR/CF: <b>5.00 ft</b>

**Serial #: 8875**      Inside

Press@RunDepth:      psig @      3869.00 ft (KB)	Capacity:      8000.00 psig
Start Date:      2017.10.11      End Date:      2017.10.11	Last Calib.:      2017.10.11
Start Time:      01:10:34      End Time:      08:04:33	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** IF: BOB in 6 1/2 mins.  
 IS: Surface blow died in 20 min.  
 FF: BOB in 8 min.  
 FS: Surface blow died in 25 min.



**PRESSURE SUMMARY**

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

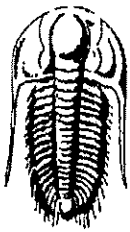
**Recovery**

Length (ft)	Description	Volume (bbl)
253.00	mcw 95%w 5%m	2.46
252.00	ocmw 5%o 85%w 10%m	3.53
181.00	ocmw 10%o 50%w 40%m	2.54
10.00	oil 100%o	0.14

**Gas Rates**

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**18-14-30w Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64257

**DST#: 1**

ATTN: Anderw Stenzel

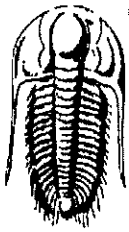
Test Start: 2017.10.11 @ 01:10:32

### Tool Information

Drill Pipe:	Length: 3743.00 ft	Diameter: 3.80 inches	Volume: 52.50 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 53.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3868.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	69.00 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			3842.00	
Shut In Tool	5.00			3847.00	
Hydraulic tool	5.00			3852.00	
Jars	5.00			3857.00	
Safety Joint	2.00			3859.00	
Packer	5.00			3864.00	27.00 Bottom Of Top Packer
Packer	4.00			3868.00	
Stubb	1.00			3869.00	
Recorder	0.00	8875	Inside	3869.00	
Recorder	0.00	8166	Outside	3869.00	
Perforations	2.00			3871.00	
Change Over Sub	1.00			3872.00	
Drill Pipe	32.00			3904.00	
Change Over Sub	1.00			3905.00	
Bullnose	5.00			3910.00	42.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>69.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

18-14-30w Gove,KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64257

DST#: 1

ATTN: Anderw Stenzel

Test Start: 2017.10.11 @ 01:10:32

## 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:

28000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
253.00	mcw 95%w 5%m	2.456
252.00	ocmw 5%o 85%w 10%m	3.535
181.00	ocmw 10%o 50%w 40%m	2.539
10.00	oil 100%o	0.140

Total Length: 696.00 ft      Total Volume: 8.670 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .44@38=28000

Serial #: 8166

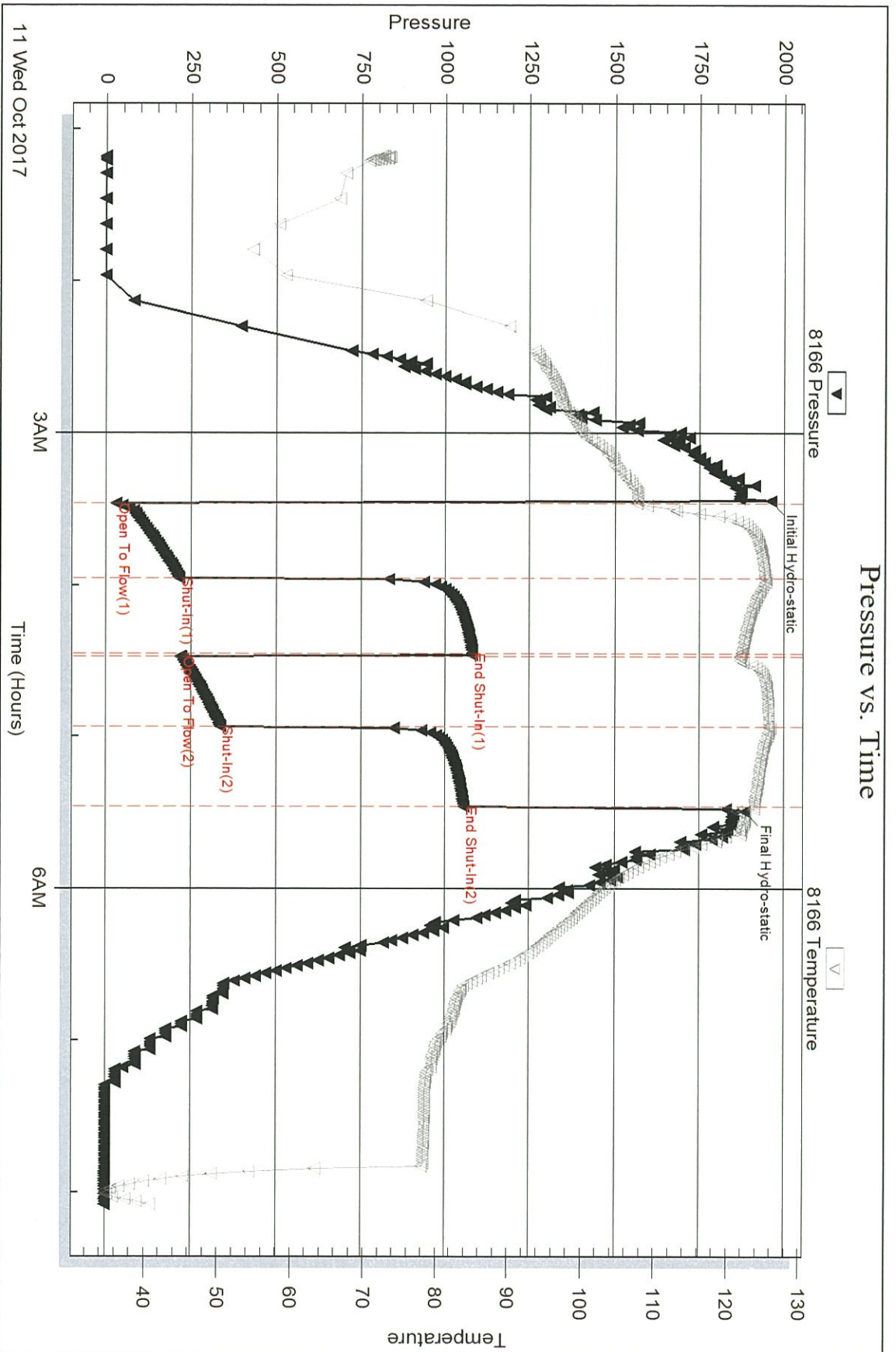
Outside

Palomino Petroleum

Brownie #5

DST Test Number: 1

### Pressure vs. Time



Trilobe Testing, Inc

Ref. No: 64257

Printed: 2017.10.17 @ 10:51:22

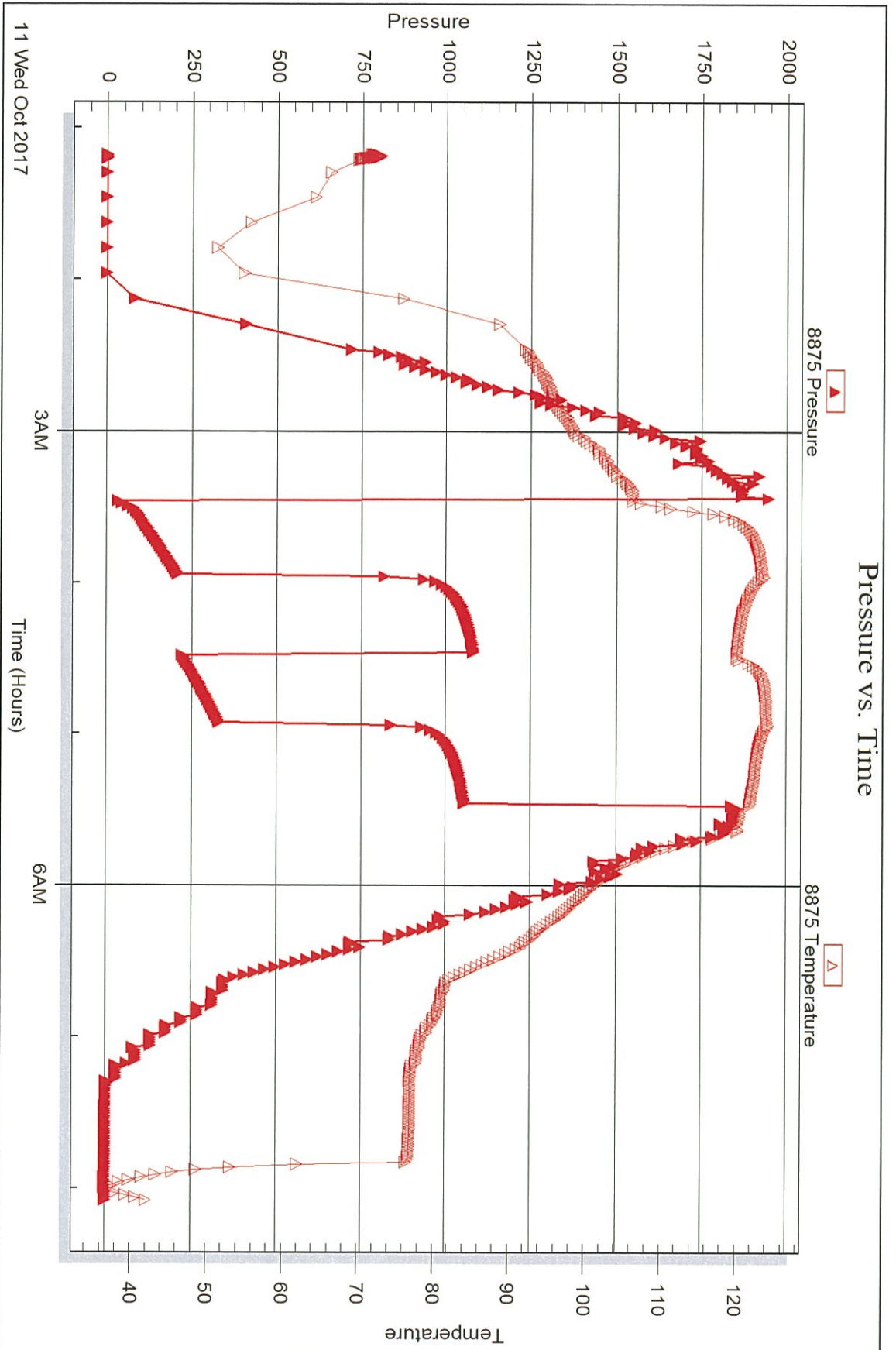
Serial #: 8875

Inside

Palomino Petroleum

Brownie #5

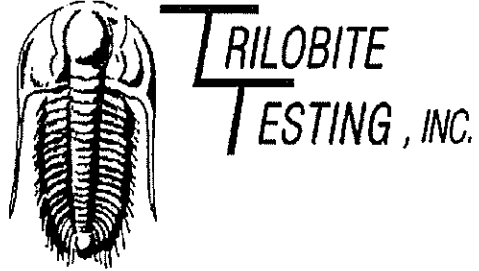
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64257

Printed: 2017.10.17 @ 10:51:22



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Andrew Stenzel

**Brownie #5**

**18-14-30w Gove,KS**

Start Date: 2017.10.11 @ 16:26:00

End Date: 2017.10.11 @ 22:22:00

Job Ticket #: 64258                      DST #: 2

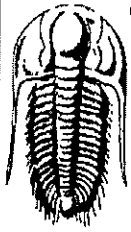
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.17 @ 10:50:19

Palomino Petroleum  
18-14-30w Gove,KS  
Brownie #5  
DST # 2  
LKC C  
2017.10.11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64258

DST#: 2

ATTN: Anderw Stenzel

Test Start: 2017.10.11 @ 16:26:00

## GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:11:30

Time Test Ended: 22:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 3923.00 ft (KB) To 3952.00 ft (KB) (TVD)

Reference Elevations: 2821.00 ft (KB)

Total Depth: 3952.00 ft (KB) (TVD)

2816.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8166**

**Outside**

Press@RunDepth: 161.08 psig @ 3924.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.11

End Date: 2017.10.11

Last Calib.: 2017.10.11

Start Time: 16:26:05

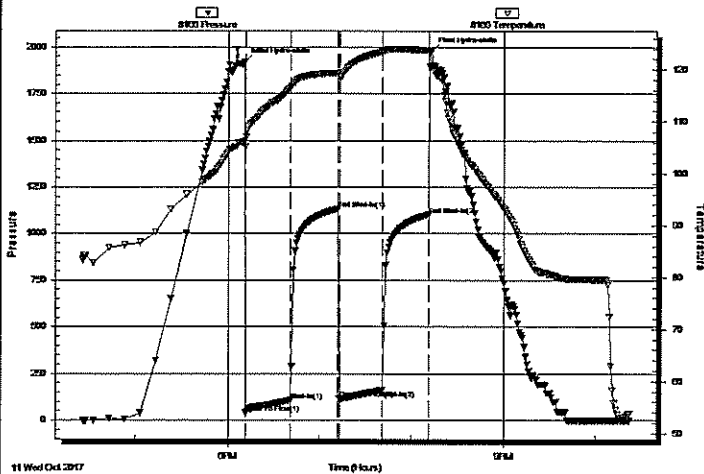
End Time: 22:21:59

Time On Btm: 2017.10.11 @ 18:11:00

Time Off Btm: 2017.10.11 @ 20:13:00

TEST COMMENT: IF: BOB in 5 min.  
IS: 5" blow.  
FF: BOB in 8 min.  
FS: 8" blow.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.11	106.31	Initial Hydro-static
1	38.80	105.25	Open To Flow (1)
30	105.89	116.56	Shut-In(1)
61	1132.36	119.36	End Shut-In(1)
62	115.26	118.73	Open To Flow (2)
90	161.08	123.47	Shut-In(2)
120	1102.43	123.68	End Shut-In(2)
122	1976.51	120.34	Final Hydro-static

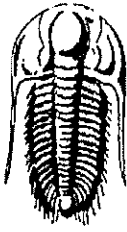
## Recovery

Length (ft)	Description	Volume (bbl)
252.00	mcco 20%g 30%o 50%m	2.44
157.00	go 10%g 90%o	2.20
0.00	662 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Palomino Petroleum  
4924 SE 84th St  
New ton, KS 67114

ATTN: Andrew Stenzel

**18-14-30w Gove,KS**

**Brownie #5**

Job Ticket: 64258

**DST#: 2**

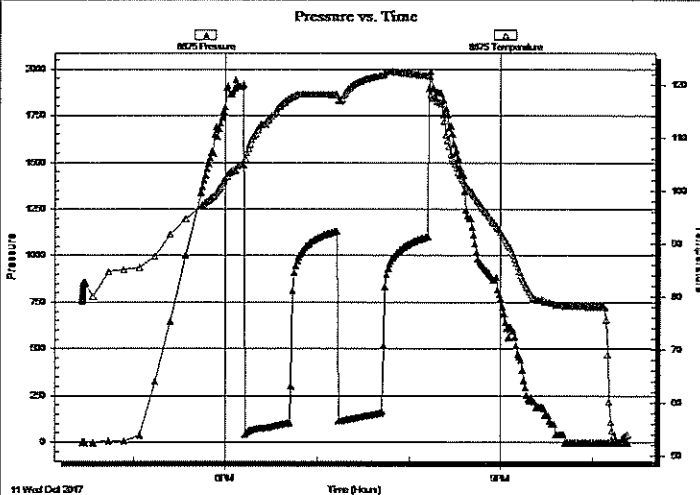
Test Start: 2017.10.11 @ 16:26:00

**GENERAL INFORMATION:**

Formation: **LKC C**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 18:11:30 Tester: Brandon Turley  
 Time Test Ended: 22:22:00 Unit No: 79  
 Interval: **3923.00 ft (KB) To 3952.00 ft (KB) (TVD)** Reference Elevations: 2821.00 ft (KB)  
 Total Depth: 3952.00 ft (KB) (TVD) 2816.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8875** Inside  
 Press@RunDepth: psig @ 3924.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.10.11 End Date: 2017.10.11 Last Calib.: 2017.10.11  
 Start Time: 16:26:59 End Time: 22:22:58 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: BOB in 5 min.  
 IS: 5" blow .  
 FF: BOB in 8 min.  
 FS: 8" blow .



**PRESSURE SUMMARY**

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

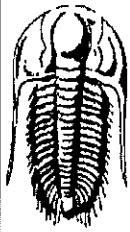
**Recovery**

Length (ft)	Description	Volume (bbl)
252.00	mcgo 20%g 30%o 50%m	2.44
157.00	go 10%g 90%o	2.20
0.00	662 GIP	0.00

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64258

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.10.11 @ 16:26:00

### Tool Information

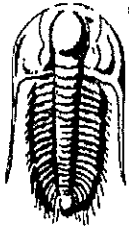
Drill Pipe:	Length: 3794.00 ft	Diameter: 3.80 inches	Volume: 53.22 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 53.81 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3923.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.00 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			3897.00	
Shut In Tool	5.00			3902.00	
Hydraulic tool	5.00			3907.00	
Jars	5.00			3912.00	
Safety Joint	2.00			3914.00	
Packer	5.00			3919.00	27.00 Bottom Of Top Packer
Packer	4.00			3923.00	
Stubb	1.00			3924.00	
Recorder	0.00	8875	Inside	3924.00	
Recorder	0.00	8166	Outside	3924.00	
Perforations	23.00			3947.00	
Bullnose	5.00			3952.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**





**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64258

DST#: 2

ATTN: Anderw Stenzel

Test Start: 2017.10.11 @ 16:26:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	mcgo 20%g 30%o 50%m	2.442
157.00	go 10%g 90%o	2.202
0.00	662 GIP	0.000

Total Length: 409.00 ft

Total Volume: 4.644 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 36@60=36

Serial #: 8166

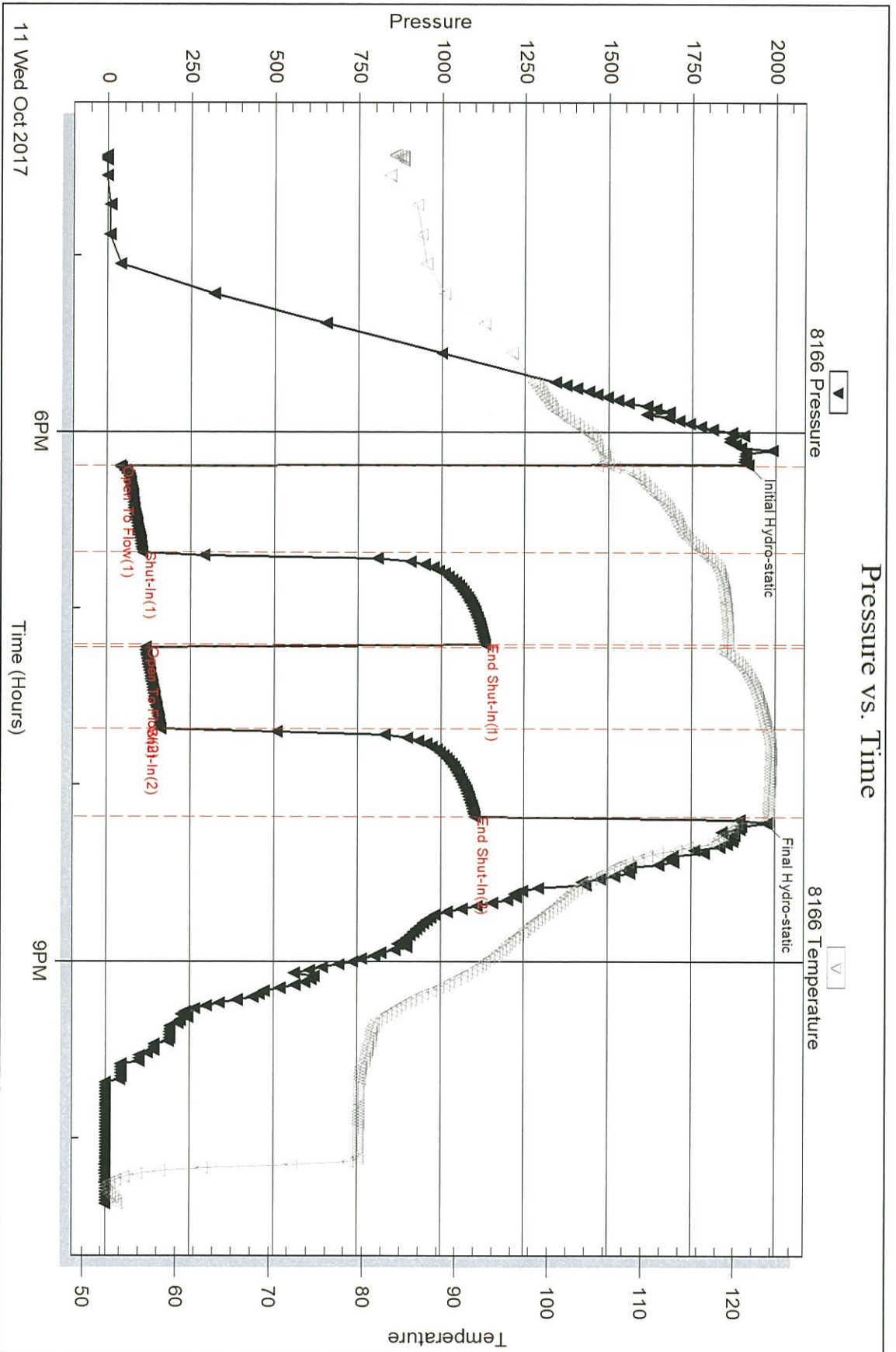
Outside

Palomino Petroleum

Brownie #5

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64258

Printed: 2017.10.17 @ 10:50:20

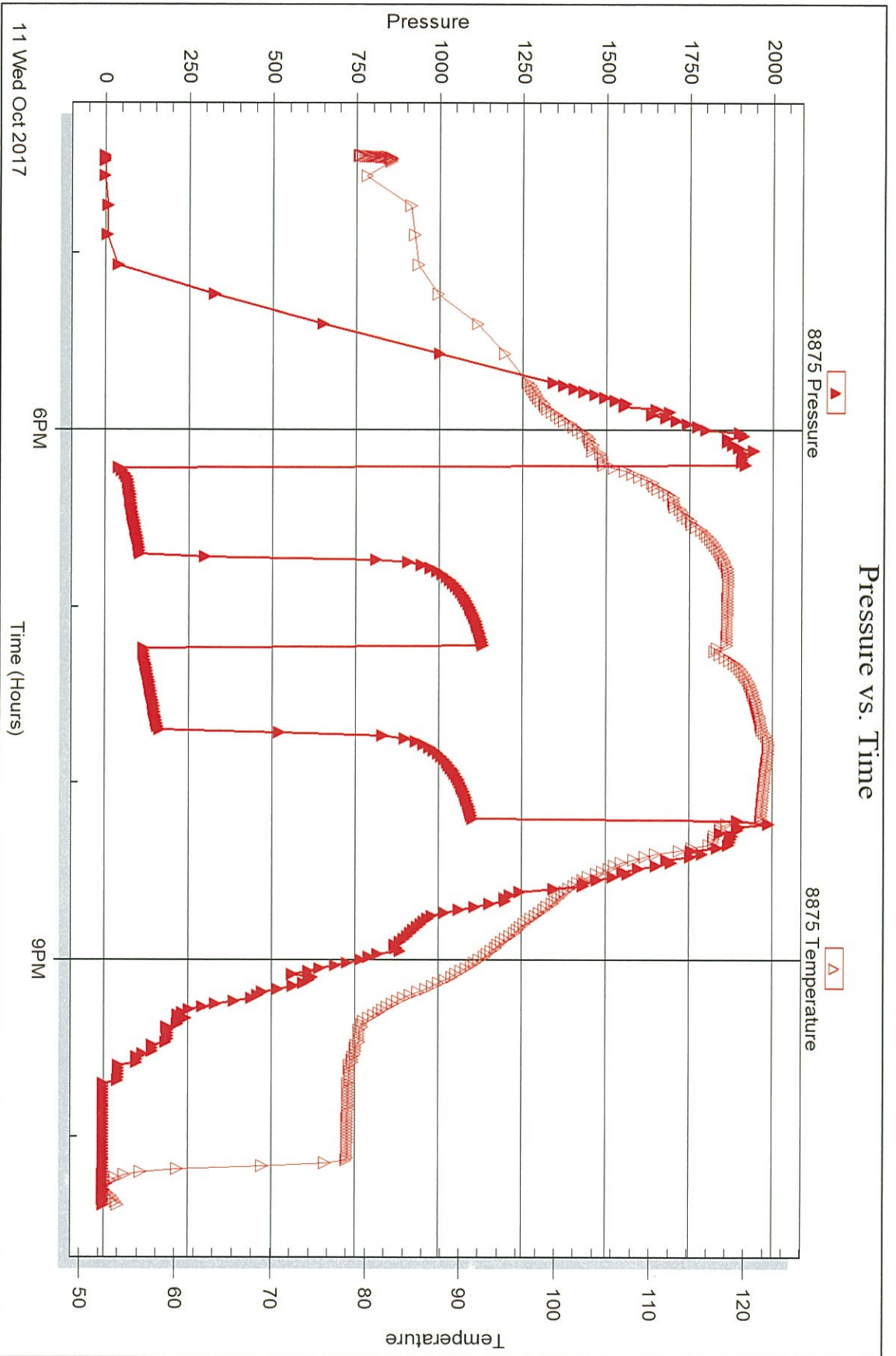
Serial #: 8875

Inside

Palomino Petroleum

Brow nie #5

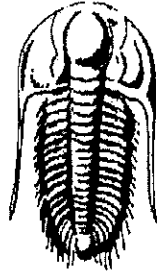
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64258

Printed: 2017.10.17 @ 10:50:20



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Anderw Stenzel

**Brownie #5**

**18-14-30w Gove,KS**

Start Date: 2017.10.12 @ 09:35:13

End Date: 2017.10.12 @ 15:54:43

Job Ticket #: 64259                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.17 @ 10:49:48

Palomino Petroleum

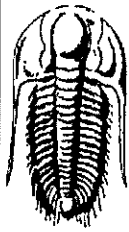
18-14-30w Gove,KS

Brownie #5

DST # 3

LKC F - G

2017.10.12



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
Newton, KS 67114

**Brownie #5**

Job Ticket: 64259

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.10.12 @ 09:35:13

### GENERAL INFORMATION:

Formation: LKC F - G

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:46:43

Time Test Ended: 15:54:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 3957.00 ft (KB) To 4025.00 ft (KB) (TVD)

Reference Elevations: 2821.00 ft (KB)

Total Depth: 4025.00 ft (KB) (TVD)

2816.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8166**

**Outside**

Press@RunDepth: 487.28 psig @ 3958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.12

End Date:

2017.10.12

Last Calib.: 2017.10.12

Start Time: 09:35:18

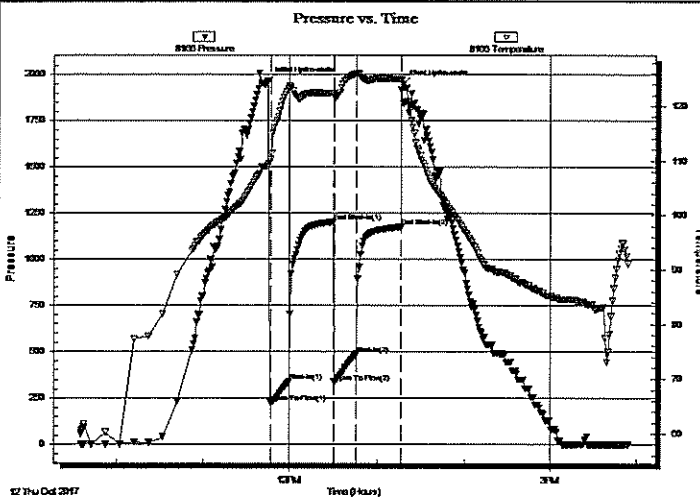
End Time:

15:54:42

Time On Btm: 2017.10.12 @ 11:44:43

Time Off Btm: 2017.10.12 @ 13:17:13

TEST COMMENT: IF: BOB in 1 1/2 min.  
IS: Weak surging surface blow.  
FF: BOB in 2 1/2 min.  
FS: 2" blow.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.01	109.10	Initial Hydro-static
2	225.98	110.28	Open To Flow (1)
15	339.41	123.26	Shut-In(1)
45	1203.64	122.28	End Shut-In(1)
46	333.65	121.50	Open To Flow (2)
61	487.28	125.95	Shut-In(2)
91	1176.05	124.89	End Shut-In(2)
93	1947.27	120.54	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%m	1.56
189.00	gocmw 40%g 10%o 40%w 10%m	2.65
378.00	gocmw 40%g 10%o 30%w 20%m	5.30
428.00	mw cgo 30%g 30%o 20%w 20%m	6.00
0.00	139 GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
Newton, KS 67114

**Brownie #5**

ATTN: Anderw Stenzel

Job Ticket: 64259

DST#: 3

Test Start: 2017.10.12 @ 09:35:13

## GENERAL INFORMATION:

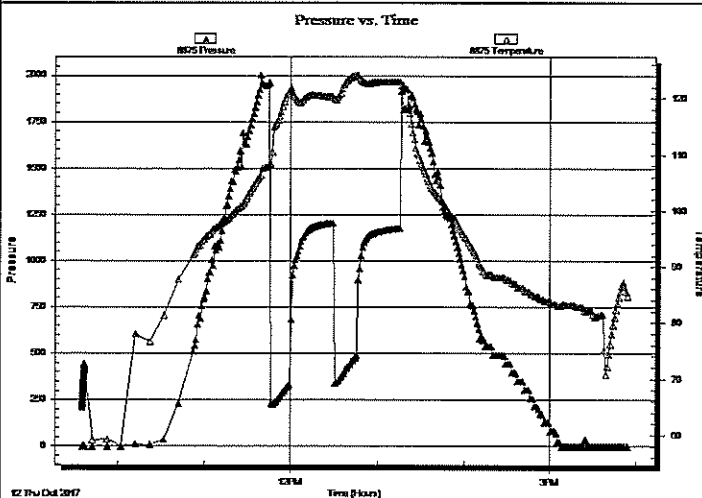
Formation:	LKC F - G	Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock: ft (KB)	Tester:	Brandon Turley
Time Tool Opened:	11:46:43	Unit No:	79
Time Test Ended:	15:54:43	Reference Elevations:	2821.00 ft (KB)
Interval:	3957.00 ft (KB) To 4025.00 ft (KB) (TVD)		2816.00 ft (CF)
Total Depth:	4025.00 ft (KB) (TVD)	Hole Diameter:	7.88 inches
Hole Condition:	Good	KB to GR/CF:	5.00 ft

**Serial #: 8875**

**Inside**

Press@RunDepth:	psig @	3958.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2017.10.12	End Date:	2017.10.12	Last Calib.:
Start Time:	09:35:16	End Time:	15:54:45	Time On Btm:
				Time Off Btm:

TEST COMMENT: IF: BOB in 1 1/2 min.  
IS: Weak surging surface blow.  
FF: BOB in 2 1/2 min.  
FS: 2" blow.



## PRESSURE SUMMARY

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

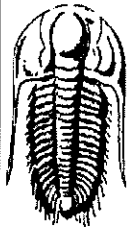
## Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%m	1.56
189.00	gocmw 40%g 10%o 40%w 10%m	2.65
378.00	gocmw 40%g 10%o 30%w 20%m	5.30
428.00	mw cgo 30%g 30%o 20%w 20%m	6.00
0.00	139 GIP	0.00

\* 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

18-14-30w Gove,KS

4924 SE 84th St  
Newton, KS 67114

**Brownie #5**

Job Ticket: 64259

DST#: 3

ATTN: Anderw Stenzel

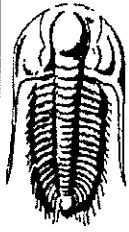
Test Start: 2017.10.12 @ 09:35:13

### Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3957.00 ft			Final 55000.00 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			3931.00	
Shut In Tool	5.00			3936.00	
Hydraulic tool	5.00			3941.00	
Jars	5.00			3946.00	
Safety Joint	2.00			3948.00	
Packer	5.00			3953.00	27.00 Bottom Of Top Packer
Packer	4.00			3957.00	
Stubb	1.00			3958.00	
Recorder	0.00	8875	Inside	3958.00	
Recorder	0.00	8166	Outside	3958.00	
Perforations	28.00			3986.00	
Change Over Sub	1.00			3987.00	
Drill Pipe	32.00			4019.00	
Change Over Sub	1.00			4020.00	
Bullnose	5.00			4025.00	68.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.00</b>				



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

18-14-30w Gove,KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64259

DST#: 3

ATTN: Anderw Stenzel

Test Start: 2017.10.12 @ 09:35:13

## 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:

59000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
189.00	mcw 95%w 5%m	1.558
189.00	gocmw 40%g 10%o 40%w 10%m	2.651
378.00	gocmw 40%g 10%o 30%w 20%m	5.302
428.00	mw cgo 30%g 30%o 20%w 20%m	6.004
0.00	139 GIP	0.000

Total Length: 1184.00 ft

Total Volume: 15.515 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .10@89=59000



Serial #: 8166

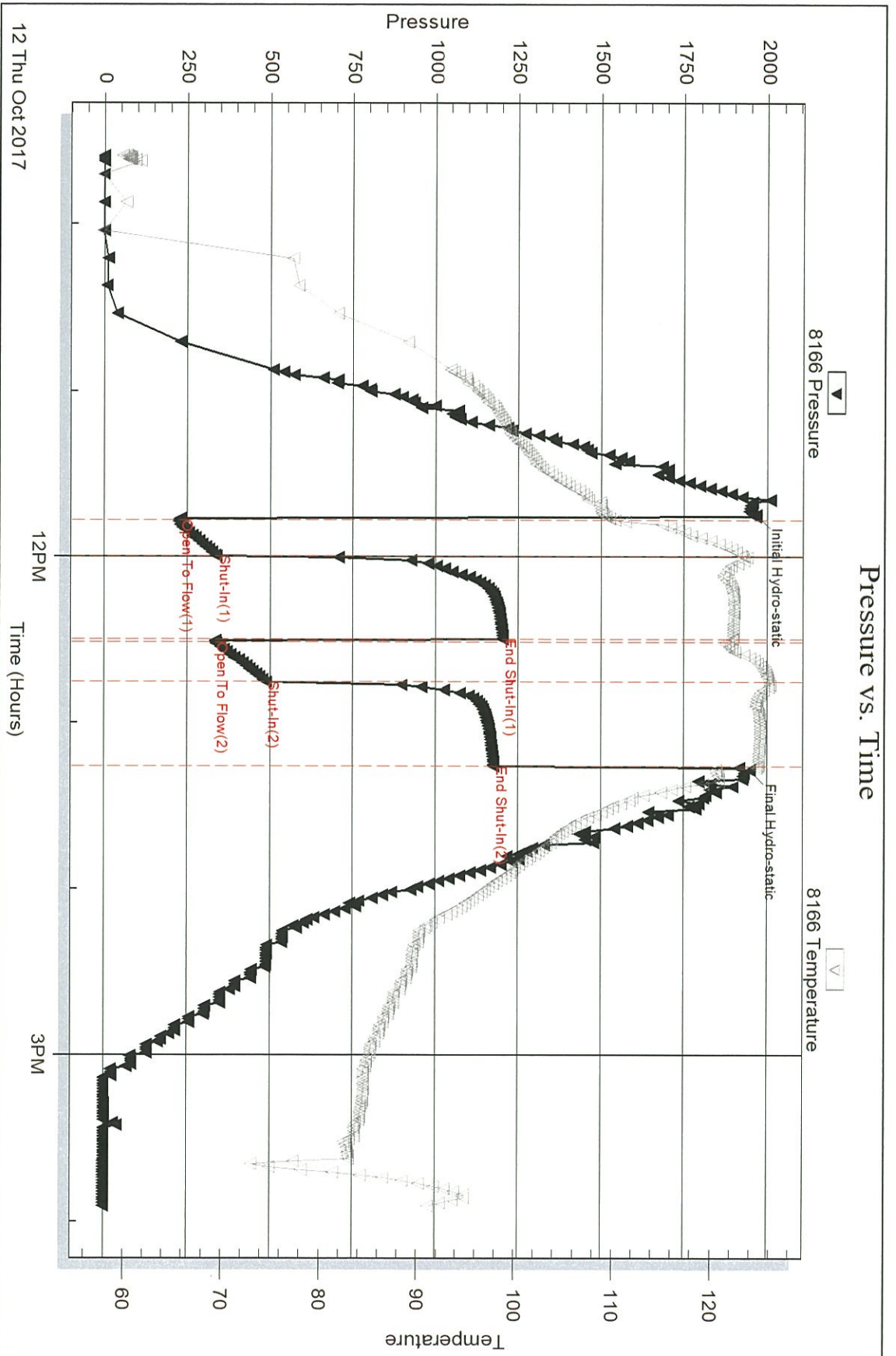
Outside

Palomino Petroleum

Flow no #5

DST Test Number: 3

### Pressure vs. Time



Trilobe Testing, Inc

Ref. No: 64259

Printed: 2017.10.17 @ 10:49:49

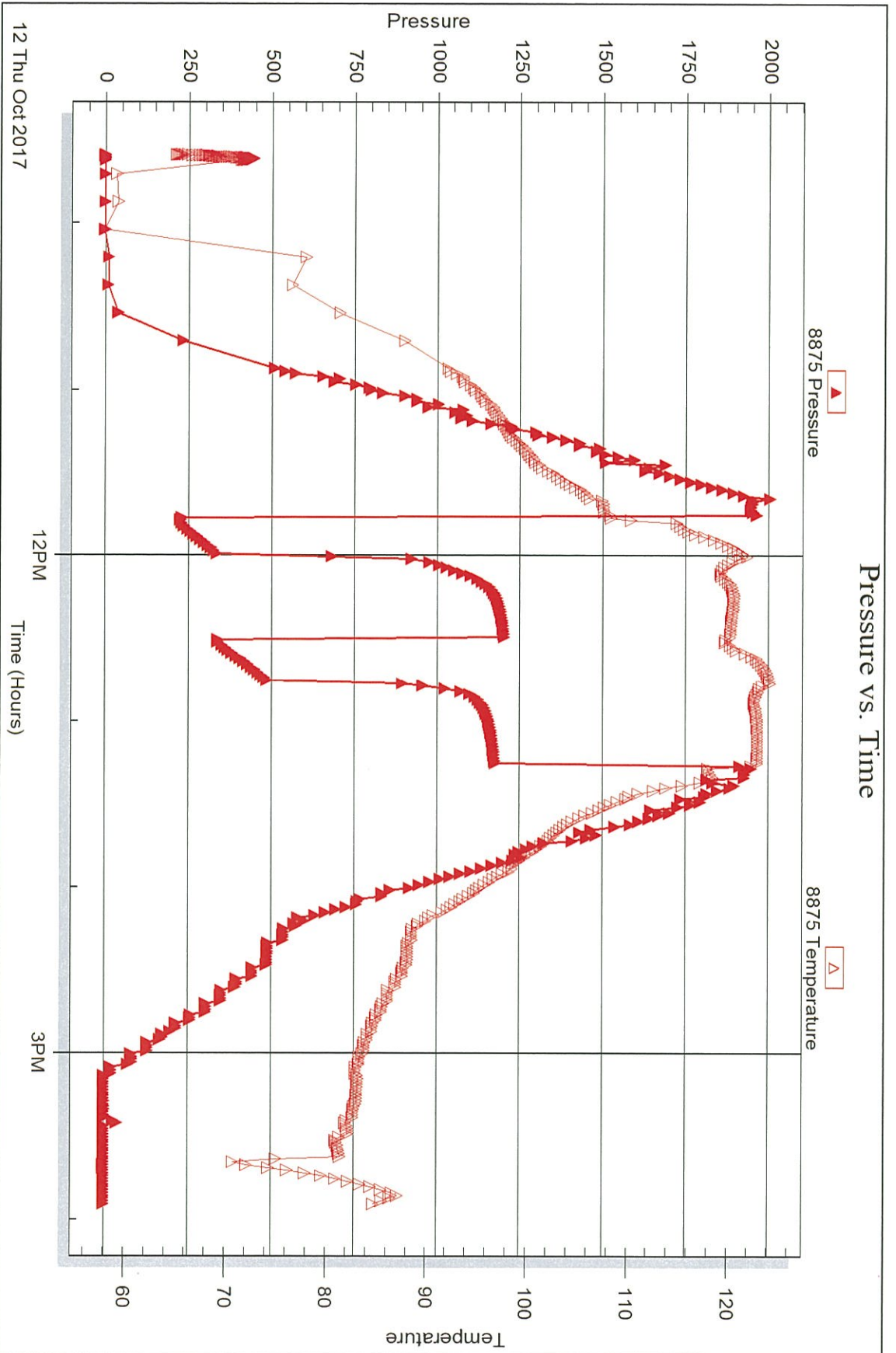
Serial #: 8875

Inside

Palomino Petroleum

Brownie #5

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Anderw Stenzel

**Brownie #5**

**18-14-30w Gove,KS**

Start Date: 2017.10.13 @ 04:08:03

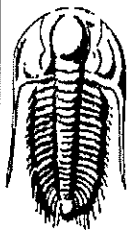
End Date: 2017.10.13 @ 10:07:03

Job Ticket #: 64260                      DST #: 4

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

Printed: 2017.10.17 @ 10:17:31

Palomino Petroleum 18-14-30w Gove,KS Brownie #5 DST # 4 LKC H - 1 2017.10.13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64260

DST#: 4

ATTN: Anderw Stenzel

Test Start: 2017.10.13 @ 04:08:03

## GENERAL INFORMATION:

Formation: LKC H-1

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:13:33

Time Test Ended: 10:07:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4051.00 ft (KB) To 4120.00 ft (KB) (TVD)

Reference Elevations: 2821.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD)

2816.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8166**

**Outside**

Press@RunDepth: 85.52 psig @ 4052.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.13

End Date: 2017.10.13

Last Calib.: 2017.10.13

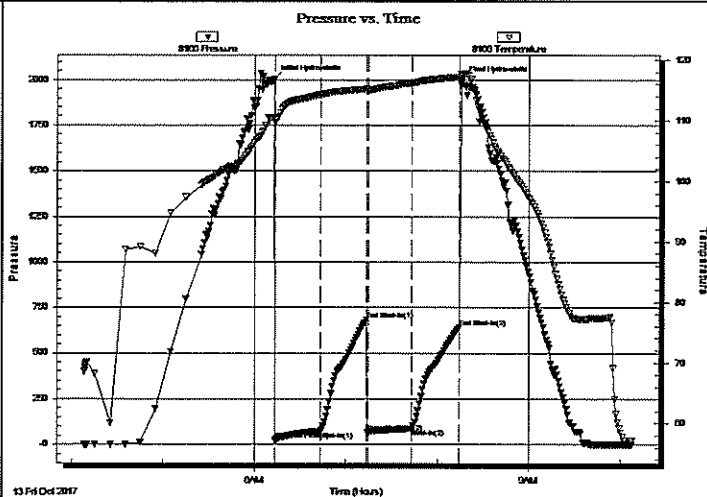
Start Time: 04:08:08

End Time: 10:07:02

Time On Btm: 2017.10.13 @ 06:13:03

Time Off Btm: 2017.10.13 @ 08:16:03

**TEST COMMENT:** IF: BOB in 15 min.  
IS: Surface blow died in 25 min.  
FF: BOB in 12 min.  
FS: Surface blow built to 1/4"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.90	110.45	Initial Hydro-static
1	23.50	109.64	Open To Flow (1)
31	69.53	114.25	Shut-In(1)
60	681.90	115.18	End Shut-In(1)
62	64.55	115.05	Open To Flow (2)
90	85.52	116.17	Shut-In(2)
121	640.74	117.22	End Shut-In(2)
123	1998.97	117.51	Final Hydro-static

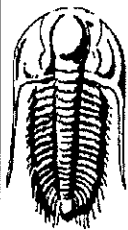
## Recovery

Length (ft)	Description	Volume (bbl)
63.00	gocm 30%g 30%o 40%m	0.31
113.00	gocm 10%g 10%o 80%m	1.07
0.00	328 GIP	0.00

\* Recovery from multiple tests

## 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: Anderw Stenzel

**18-14-30w Gove, KS**  
**Brownie #5**  
 Job Ticket: 64260      DST#: 4  
 Test Start: 2017.10.13 @ 04:08:03

## GENERAL INFORMATION:

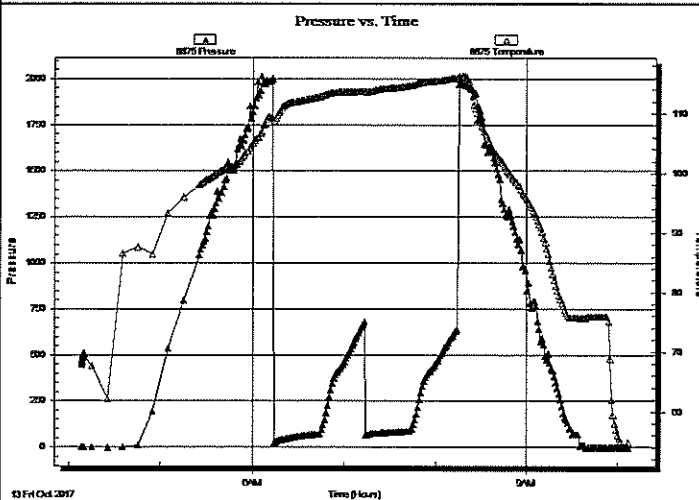
Formation: **LKC H - I**  
 Deviated: **No** Whipstock: **ft (KB)**      Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **06:13:33**      Tester: **Brandon Turley**  
 Time Test Ended: **10:07:03**      Unit No: **79**  
 Interval: **4051.00 ft (KB) To 4120.00 ft (KB) (TVD)**      Reference Elevations: **2821.00 ft (KB)**  
 Total Depth: **4120.00 ft (KB) (TVD)**      **2816.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**      KB to GR/CF: **5.00 ft**

## Serial #: 8875

Inside

Press@RunDepth:      psig @      4052.00 ft (KB)      Capacity:      8000.00 psig  
 Start Date:      2017.10.13      End Date:      2017.10.13      Last Calib.:      2017.10.13  
 Start Time:      04:08:06      End Time:      10:07:05      Time On Btm:        
    Time Off Btm:

TEST COMMENT: IF: BOB in 15 min.  
 IS: Surface blow died in 25 min.  
 FF: BOB in 12 min.  
 FS: Surface blow built to 1/4"



## PRESSURE SUMMARY

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

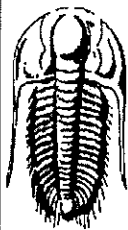
## Recovery

Length (ft)	Description	Volume (bbl)
63.00	gocm 30%g 30%o 40%m	0.31
113.00	gocm 10%g 10%o 80%m	1.07
0.00	328 GIP	0.00

\* 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

18-14-30w Gove,KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64260

DST#: 4

ATTN: Anderw Stenzel

Test Start: 2017.10.13 @ 04:08:03

### Tool Information

Drill Pipe:	Length: 3932.00 ft	Diameter: 3.80 inches	Volume: 55.16 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 750000.0 lb
			<u>Total Volume: 55.75 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4051.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4025.00	
Shut In Tool	5.00			4030.00	
Hydraulic tool	5.00			4035.00	
Jars	5.00			4040.00	
Safety Joint	2.00			4042.00	
Packer	5.00			4047.00	27.00 Bottom Of Top Packer
Packer	4.00			4051.00	
Stubb	1.00			4052.00	
Recorder	0.00	8875	Inside	4052.00	
Recorder	0.00	8166	Outside	4052.00	
Perforations	29.00			4081.00	
Change Over Sub	1.00			4082.00	
Drill Pipe	32.00			4114.00	
Change Over Sub	1.00			4115.00	
Bullnose	5.00			4120.00	69.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>96.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

18-14-30w Gove,KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64260

DST#: 4

ATTN: Anderw Stenzel

Test Start: 2017.10.13 @ 04:08:03

## 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:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	gocm 30%g 30%o 40%m	0.310
113.00	gocm 10%g 10%o 80%m	1.066
0.00	328 GIP	0.000

Total Length: 176.00 ft

Total Volume: 1.376 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8166

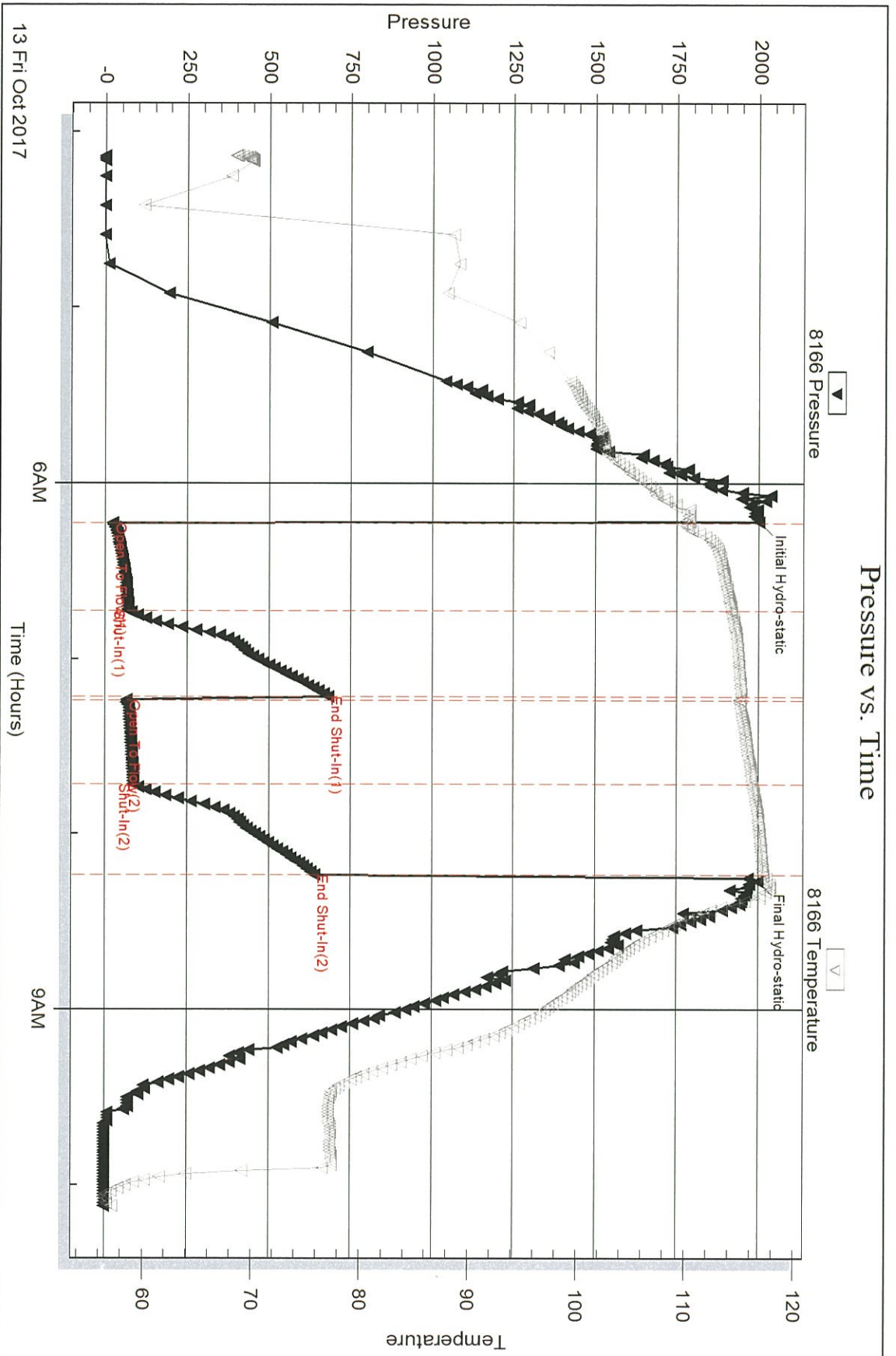
Outside

Palomino Petroleum

Brownie #5

DST Test Number: 4

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 64260

Printed: 2017.10.17 @ 10:17:32



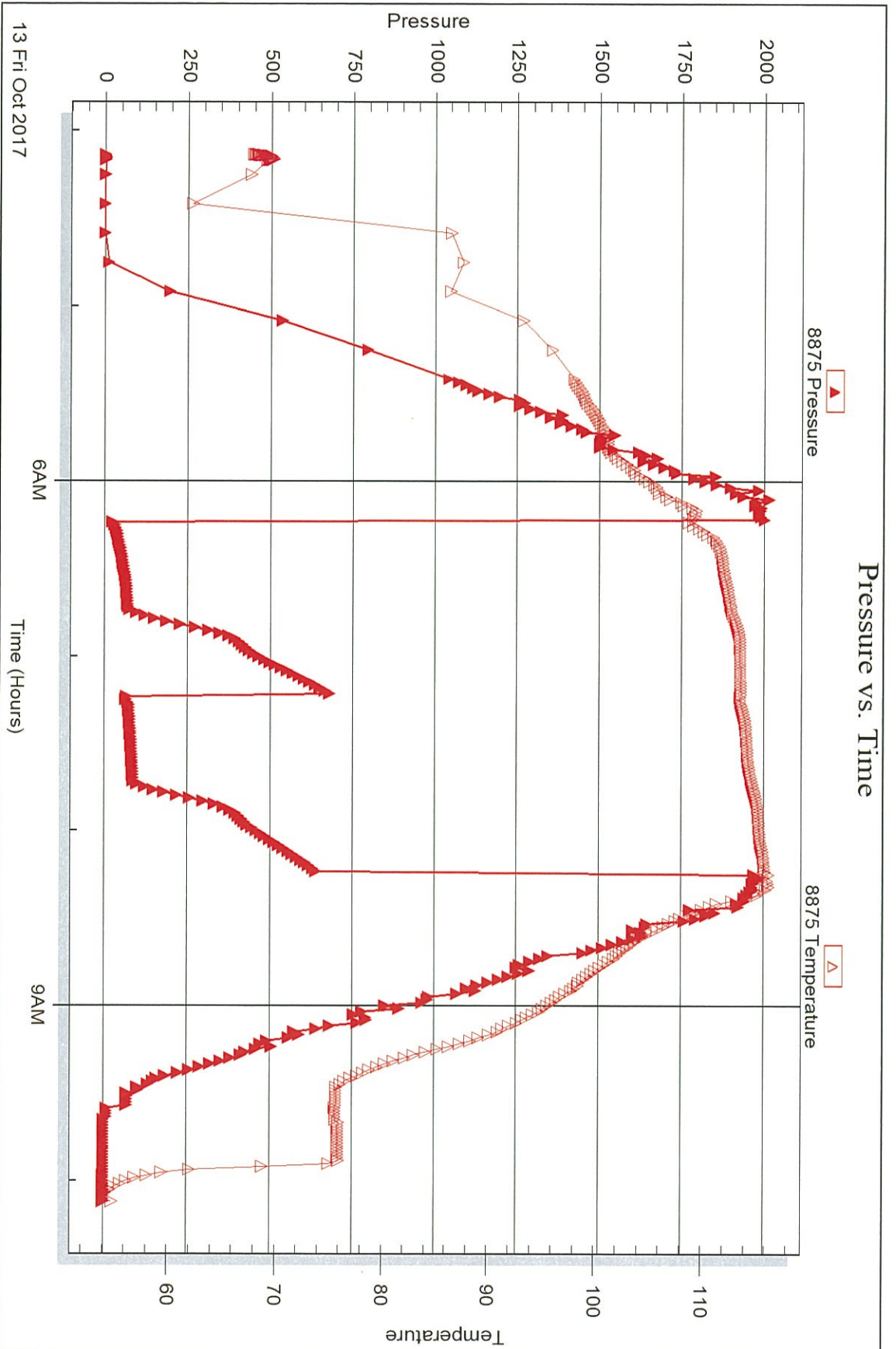
Serial #: 8875

Inside

Palomino Petroleum

Brown #5

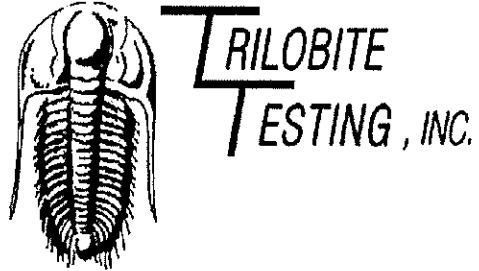
DST Test Number: 4



Triobble Testing, Inc

Ref. No: 64260

Printed: 2017.10.17 @ 10:17:32



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Anderw Stenzel

**Brownie #5**

**18-14-30w Gove,KS**

Start Date: 2017.10.13 @ 19:42:55

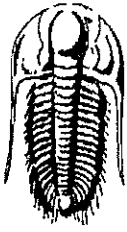
End Date: 2017.10.14 @ 01:21:25

Job Ticket #: 64261                      DST #: 5

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

Printed: 2017.10.17 @ 10:15:57

Palomino Petroleum 18-14-30w Gove,KS Brownie #5 DST # 5 LKC J 2017.10.13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64261

DST#: 5

ATTN: Anderw Stenzel

Test Start: 2017.10.13 @ 19:42:55

## GENERAL INFORMATION:

Formation: LKC J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:25

Time Test Ended: 01:21:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4126.00 ft (KB) To 4151.00 ft (KB) (TVD)

Reference Elevations: 2821.00 ft (KB)

Total Depth: 4151.00 ft (KB) (TVD)

2816.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 86.68 psig @ 4127.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.13

End Date:

2017.10.14

Last Calib.:

2017.10.14

Start Time: 19:43:00

End Time:

01:21:24

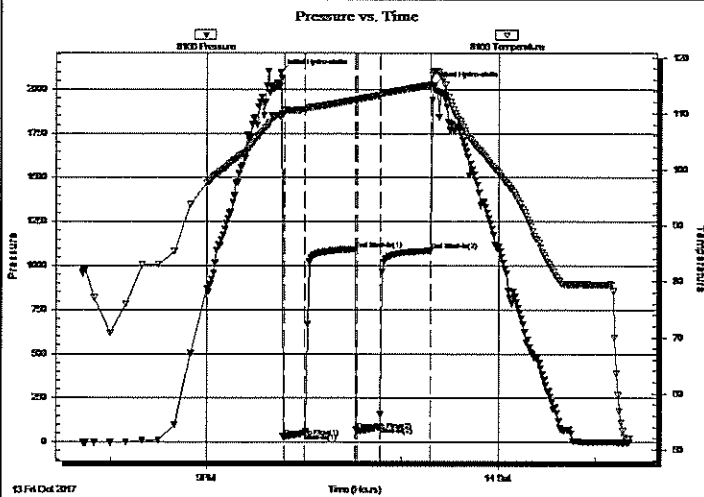
Time On Btm:

2017.10.13 @ 21:45:25

Time Off Btm:

2017.10.13 @ 23:19:25

TEST COMMENT: IF: BOB in 2 min  
IS: BOB in 12 min  
FF: BOB in 4 min  
FS: BOB in 19 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.91	109.59	Initial Hydro-static
2	27.97	110.41	Open To Flow (1)
15	50.36	110.72	Shut-In(1)
46	1092.59	112.42	End Shut-In(1)
47	65.57	112.54	Open To Flow (2)
61	86.68	113.21	Shut-In(2)
93	1085.01	115.07	End Shut-In(2)
94	2023.02	117.34	Final Hydro-static

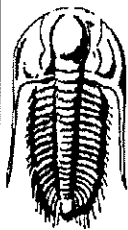
## Recovery

Length (ft)	Description	Volume (bbl)
63.00	gocm 40%g 10%o 50%m	0.31
189.00	go 20%g 80%o	2.13
0.00	1386 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Palomino Petroleum  
4924 SE 84th St  
New ton, KS 67114  
ATTN: Anderw Stenzel

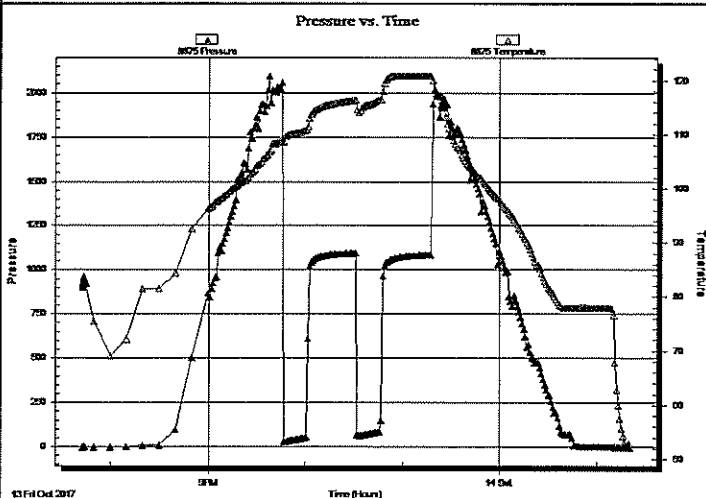
**18-14-30w Gove,KS**  
**Brownie #5**  
Job Ticket: 64261 **DST#: 5**  
Test Start: 2017.10.13 @ 19:42:55

### GENERAL INFORMATION:

Formation: LKC J  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:47:25  
Time Test Ended: 01:21:25  
Interval: 4126.00 ft (KB) To 4151.00 ft (KB) (TVD)  
Total Depth: 4151.00 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: 2821.00 ft (KB)  
2816.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8875** Inside  
Press@RunDepth: psig @ 4127.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2017.10.13 End Date: 2017.10.14 Last Calib.: 2017.10.14  
Start Time: 19:42:40 End Time: 01:21:09 Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: BOB in 2 min  
IS: BOB in 12 min  
FF: BOB in 4 min  
FS: BOB in 19 min



### PRESSURE SUMMARY

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

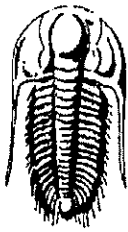
### Recovery

Length (ft)	Description	Volume (bbl)
63.00	gocm 40%g 10%o 50%m	0.31
189.00	go 20%g 80%o	2.13
0.00	1386 GIP	0.00

\* 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

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64261

DST#: 5

ATTN: Anderw Stenzel

Test Start: 2017.10.13 @ 19:42:55

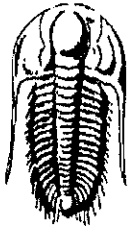
## Tool Information

Drill Pipe:	Length: 3996.00 ft	Diameter: 3.80 inches	Volume: 56.05 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4126.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 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			4100.00	
Shut In Tool	5.00			4105.00	
Hydraulic tool	5.00			4110.00	
Jars	5.00			4115.00	
Safety Joint	2.00			4117.00	
Packer	5.00			4122.00	27.00 Bottom Of Top Packer
Packer	4.00			4126.00	
Stubb	1.00			4127.00	
Recorder	0.00	8875	Inside	4127.00	
Recorder	0.00	8166	Outside	4127.00	
Perforations	19.00			4146.00	
Bullnose	5.00			4151.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

18-14-30w Gove,KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64261

DST#: 5

ATTN: Anderw Stenzel

Test Start: 2017.10.13 @ 19:42:55

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	gocm 40%g 10%o 50%m	0.310
189.00	go 20%g 80%o	2.132
0.00	1386 GIP	0.000

Total Length: 252.00 ft

Total Volume: 2.442 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 34@50=35

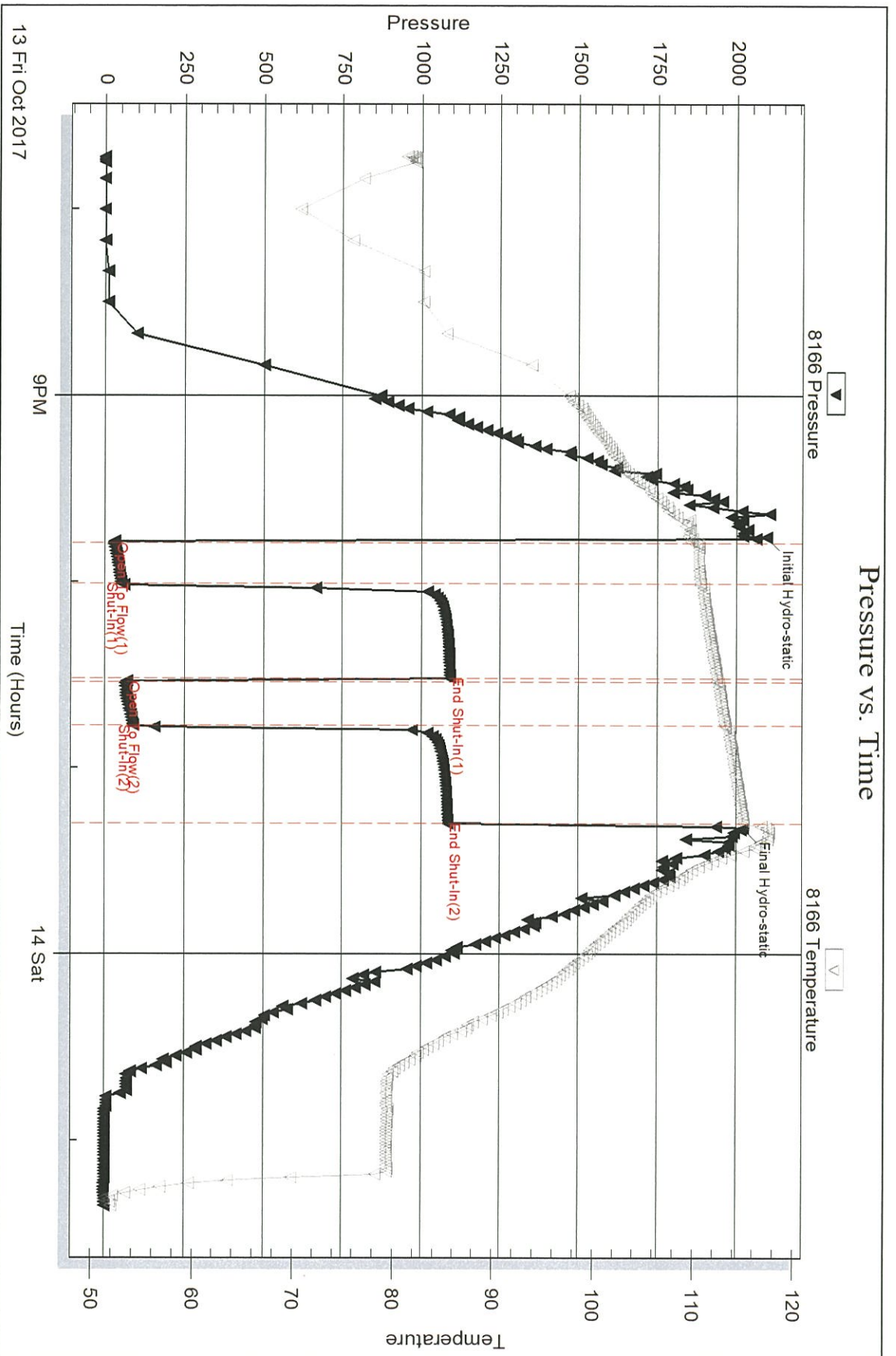
Serial #: 8166

Outside

Palomino Petroleum

Brow nie #5

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 64261

Printed: 2017.10.17 @ 10:16:01

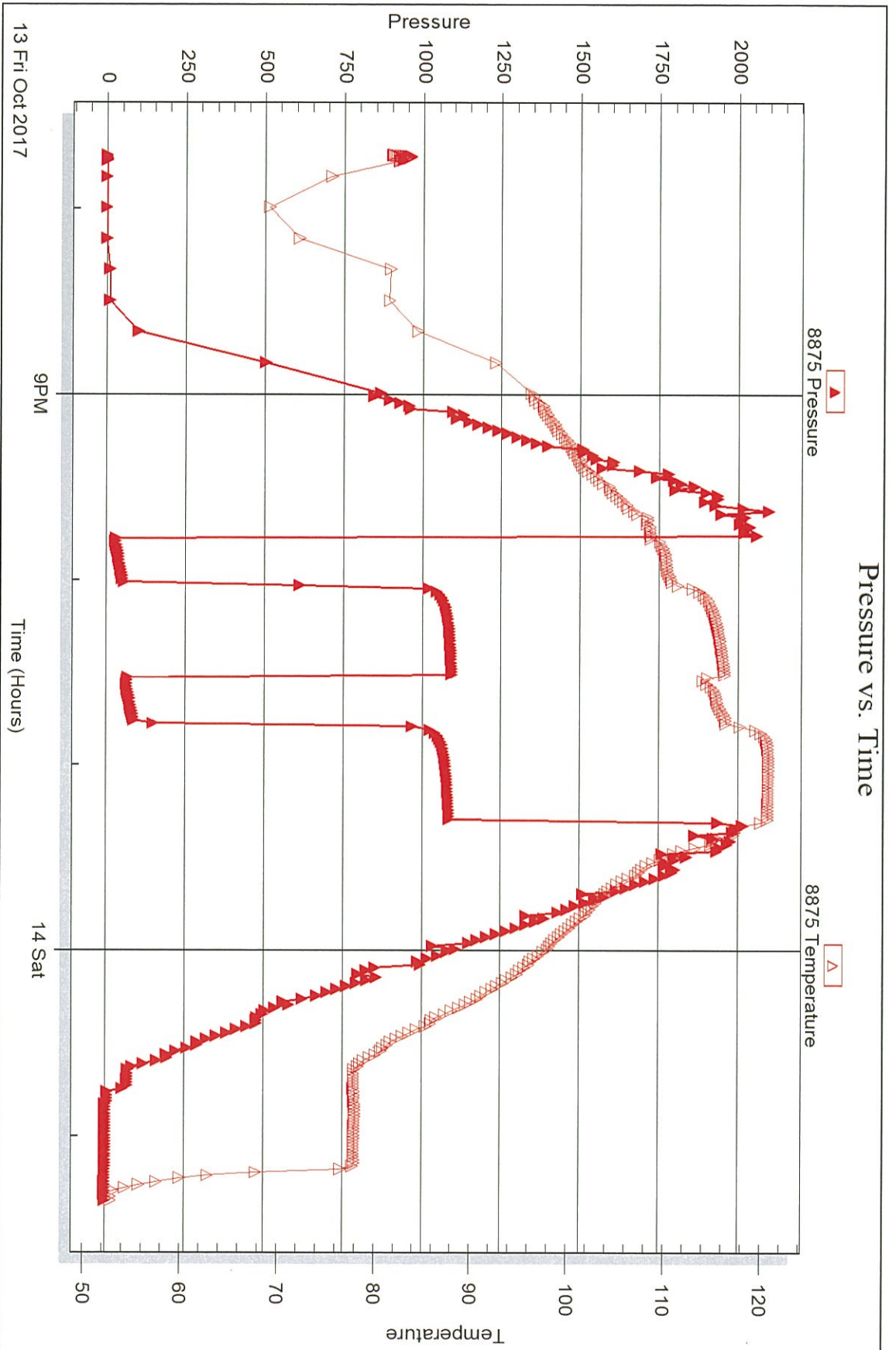
Serial #: 8875

Inside

Palomino Petroleum

Brownie #5

DST Test Number: 5

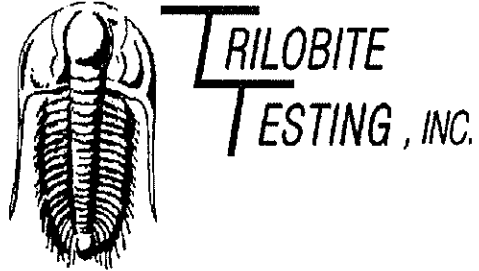


Trilobite Testing, Inc

Ref. No: 64261

Printed: 2017.10.17 @ 10:16:01





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Anderw Stenzel

**Brownie #5**

**18-14-30w Gove,KS**

Start Date: 2017.10.15 @ 00:50:40

End Date: 2017.10.15 @ 07:15:40

Job Ticket #: 64262                      DST #: 6

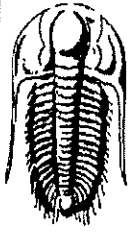
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.17 @ 10:15:02

Palomino Petroleum 18-14-30w Gove,KS Brownie #5 DST # 6 Pawnee - Myrick Stat 2017.10.15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64262

DST#: 6

ATTN: Anderw Stenzel

Test Start: 2017.10.15 @ 00:50:40

## GENERAL INFORMATION:

Formation: **Pawnee - Myrick Stat**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:01:10

Time Test Ended: 07:15:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4336.00 ft (KB) To 4404.00 ft (KB) (TVD)**

Reference Elevations: 2821.00 ft (KB)

Total Depth: 4404.00 ft (KB) (TVD)

2816.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8166**

Outside

Press@RunDepth: 90.97 psig @ 4337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.15

End Date: 2017.10.15

Last Calib.: 2017.10.15

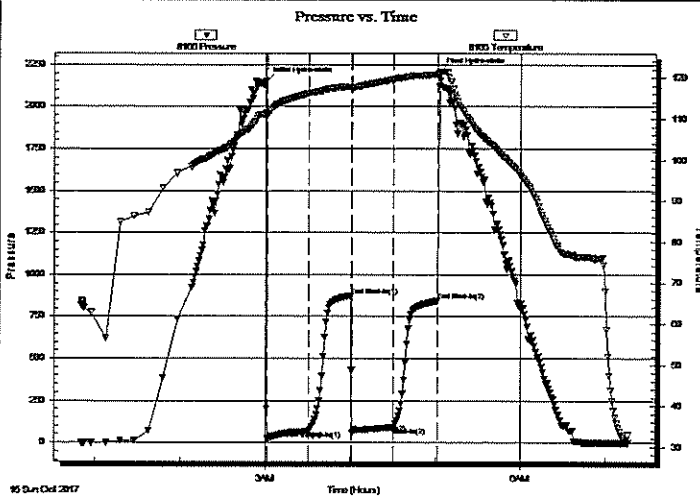
Start Time: 00:50:45

End Time: 07:15:39

Time On Btm: 2017.10.15 @ 03:00:10

Time Off Btm: 2017.10.15 @ 05:03:10

**TEST COMMENT:** IF: BOB in 14 min.  
IS: Surface blow died in 19 min.  
FF: BOB in 4 min.  
FS: Surface blow built to 2"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.99	111.32	Initial Hydro-static
1	19.73	111.11	Open To Flow (1)
31	68.15	116.18	Shut-In(1)
60	873.37	117.82	End Shut-In(1)
61	59.98	117.62	Open To Flow (2)
90	90.97	119.58	Shut-In(2)
122	842.70	120.83	End Shut-In(2)
123	2209.58	120.74	Final Hydro-static

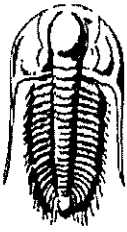
## Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocm 10%g 20%o 70%m	0.67
73.00	gocm 10%g 30%o 60%m	1.02
0.00	683 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Palomino Petroleum

18-14-30w Gove,KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64262

DST#: 6

ATTN: Anderw Stenzel

Test Start: 2017.10.15 @ 00:50:40

**GENERAL INFORMATION:**

Formation: Pawnee - Myrick Stat

Deviated: No Whipstock:                    ft (KB)

Time Tool Opened: 03:01:10

Time Test Ended: 07:15:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4336.00 ft (KB) To 4404.00 ft (KB) (TVD)

Total Depth: 4404.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2821.00 ft (KB)

2816.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8875**

Inside

Press@RunDepth:                    psig @ 4337.00 ft (KB)

Start Date: 2017.10.15                    End Date: 2017.10.15

Start Time: 00:50:48                    End Time: 07:15:47

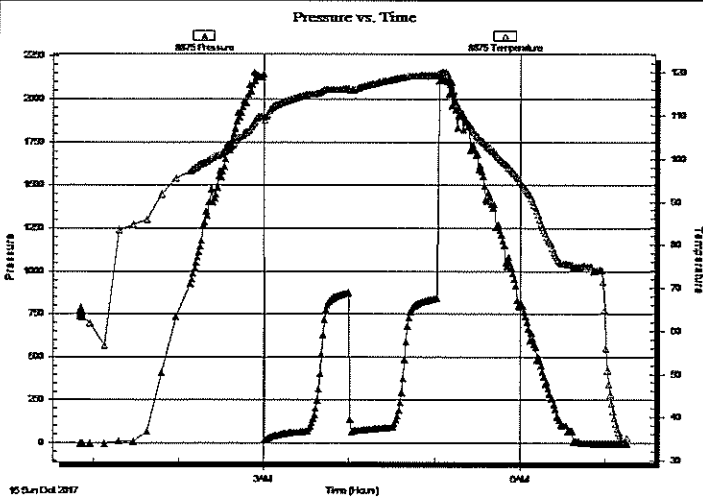
Capacity: 8000.00 psig

Last Calib.: 2017.10.15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 14 min.  
IS: Surface blow died in 19 min.  
FF: BOB in 4 min.  
FS: Surface blow built to 2"



**PRESSURE SUMMARY**

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

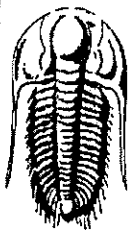
**Recovery**

Length (ft)	Description	Volume (bbl)
126.00	gocm 10%g 20%o 70%m	0.67
73.00	gocm 10%g 30%o 60%m	1.02
0.00	683 GIP	0.00

\* 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

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64262

DST#: 6

ATTN: Anderw Stenzel

Test Start: 2017.10.15 @ 00:50:40

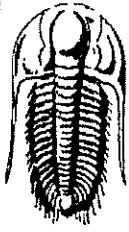
### Tool Information

Drill Pipe:	Length: 4217.00 ft	Diameter: 3.80 inches	Volume: 59.15 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4336.00 ft			Final 54000.00 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			4310.00	
Shut In Tool	5.00			4315.00	
Hydraulic tool	5.00			4320.00	
Jars	5.00			4325.00	
Safety Joint	2.00			4327.00	
Packer	5.00			4332.00	27.00 Bottom Of Top Packer
Packer	4.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	8875	Inside	4337.00	
Recorder	0.00	8166	Outside	4337.00	
Perforations	29.00			4366.00	
Change Over Sub	1.00			4367.00	
Drill Pipe	31.00			4398.00	
Change Over Sub	1.00			4399.00	
Bullnose	5.00			4404.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 95.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

18-14-30w Gove,KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64262

DST#: 6

ATTN: Anderw Stenzel

Test Start: 2017.10.15 @ 00:50:40

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 67.00 sec/qt

Water Loss: 7.59 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 0 ppm

0 deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	gocm 10%g 20%o 70%m	0.674
73.00	gocm 10%g 30%o 60%m	1.024
0.00	683 GIP	0.000

Total Length: 199.00 ft

Total Volume: 1.698 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

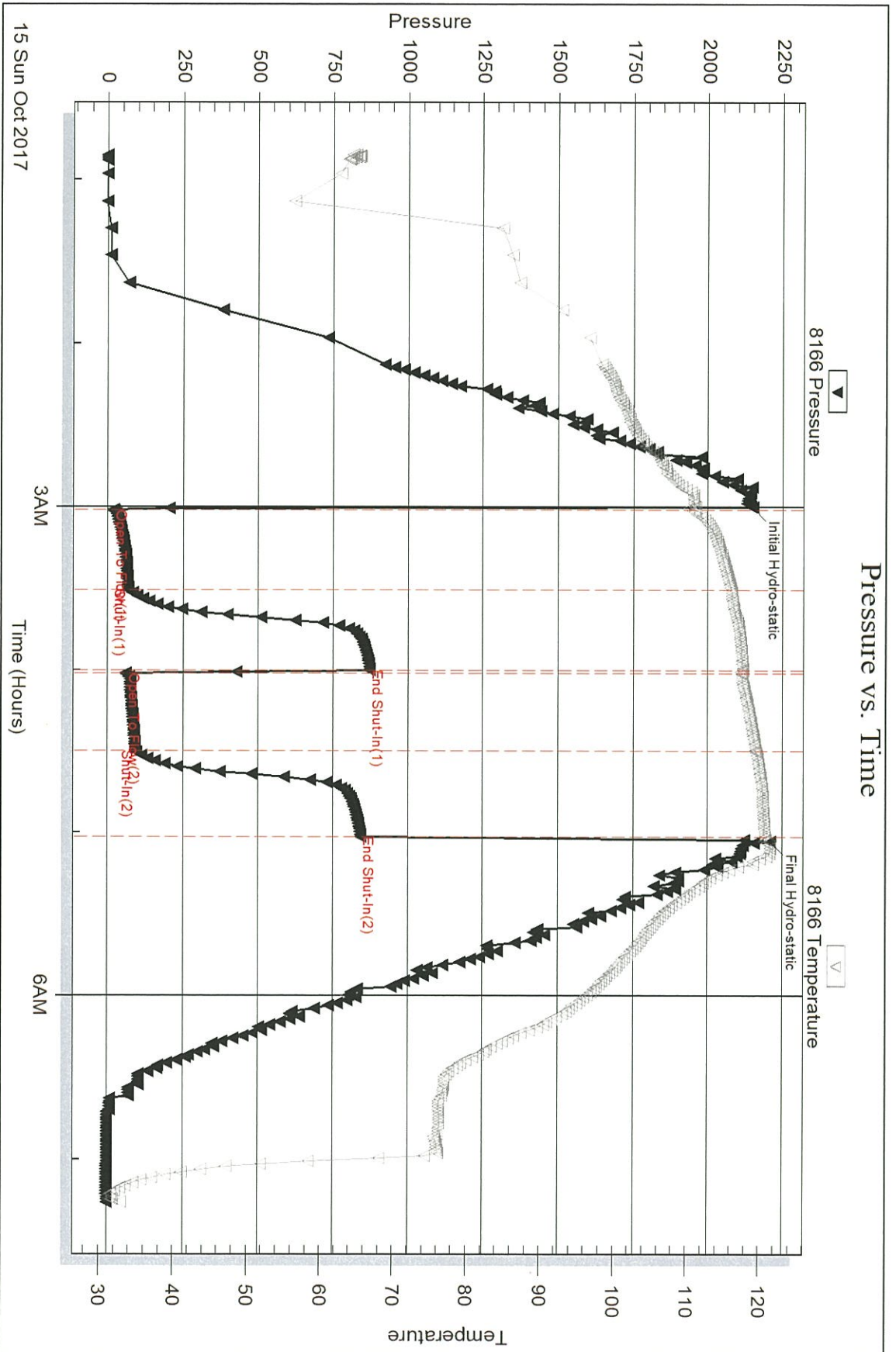
Serial #: 8166

Outside

Palomino Petroleum

Brownie #5

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 64262

Printed: 2017.10.17 @ 10:15:04

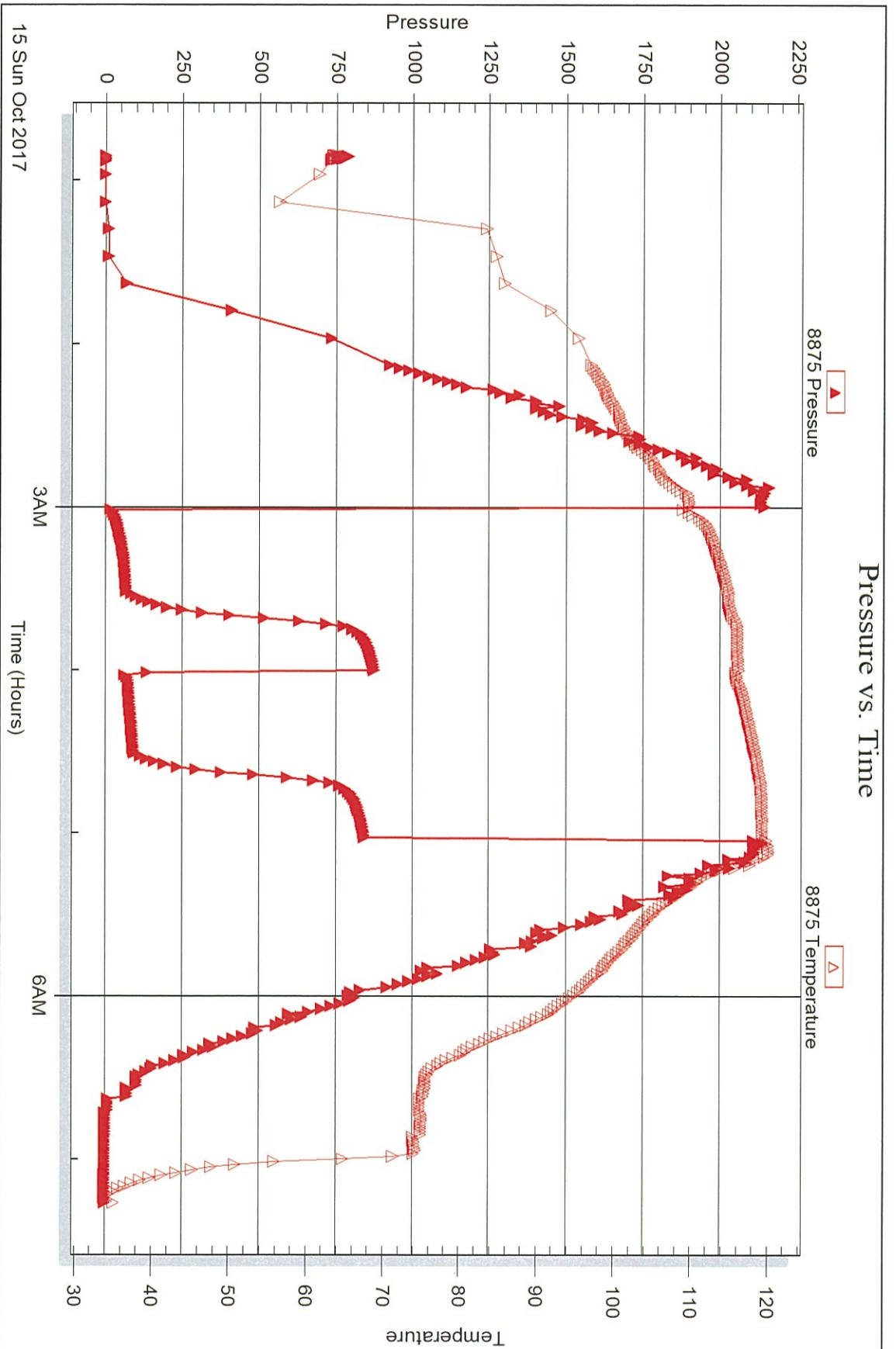
Serial #: 8875

Inside

Palomino Petroleum

Brownie #5

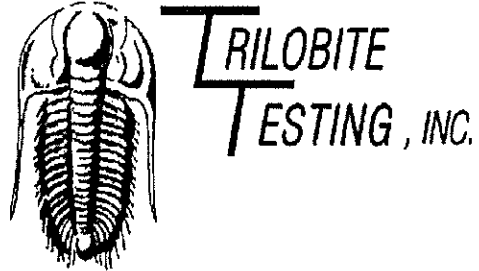
DST Test Number: 6



Triobite Testing, Inc

Ref. No: 64262

Printed: 2017.10.17 @ 10:15:04



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Anderw Stenzel

**Brownie #5**

**18-14-30w Gove,KS**

Start Date: 2017.10.15 @ 20:25:03

End Date: 2017.10.16 @ 03:27:03

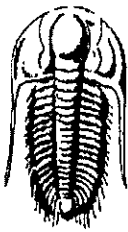
Job Ticket #: 64263                      DST #: 7

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

Printed: 2017.10.17 @ 10:03:02

Palomino Petroleum  
18-14-30w Gove,KS  
Brownie #5  
DST # 7  
Ft Scott - Johnson  
2017.10.15





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
Newton, KS 67114

**Brownie #5**

Job Ticket: 64263

DST#: 7

ATTN: Anderw Stenzel

Test Start: 2017.10.15 @ 20:25:03

## GENERAL INFORMATION:

Formation: **Ft Scott - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:22:33

Time Test Ended: 03:27:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4396.00 ft (KB) To 4492.00 ft (KB) (TVD)**

Reference Elevations: 2821.00 ft (KB)

Total Depth: 4492.00 ft (KB) (TVD)

2816.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8166**

**Outside**

Press@RunDepth: 627.59 psig @ 4397.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.15

End Date: 2017.10.16

Last Calib.: 2017.10.16

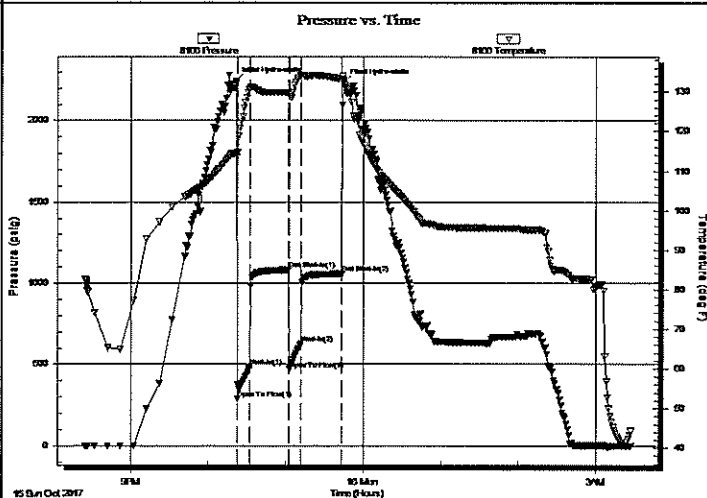
Start Time: 20:25:08

End Time: 03:27:02

Time On Btm: 2017.10.15 @ 22:21:33

Time Off Btm: 2017.10.15 @ 23:44:33

TEST COMMENT: IF: BOB in 1 min.  
IS: BOB in 15 min.  
FF: BOB in 1 min.  
FS: BOB in 8 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.83	114.44	Initial Hydro-static
1	291.24	113.48	Open To Flow (1)
11	483.38	130.87	Shut-In(1)
41	1081.50	129.77	End Shut-In(1)
42	470.46	128.94	Open To Flow (2)
51	627.59	134.13	Shut-In(2)
82	1057.69	133.15	End Shut-In(2)
83	2233.71	133.06	Final Hydro-static

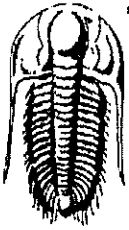
## Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcgo 10%g 70%o 20%m	1.56
1197.00	go 20%g 80%o	16.79
83.00	ocm 40%o 60%m	1.16
0.00	1429 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64263

DST#: 7

ATTN: Anderw Stenzel

Test Start: 2017.10.15 @ 20:25:03

### GENERAL INFORMATION:

Formation: **Ft Scott - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:22:33

Time Test Ended: 03:27:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4396.00 ft (KB) To 4492.00 ft (KB) (TVD)

Total Depth: 4492.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2821.00 ft (KB)

2816.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8875** Inside

Press@RunDepth: psig @ 4397.00 ft (KB)

Start Date: 2017.10.15

End Date: 2017.10.16

Capacity: 8000.00 psig

Last Calib.: 2017.10.16

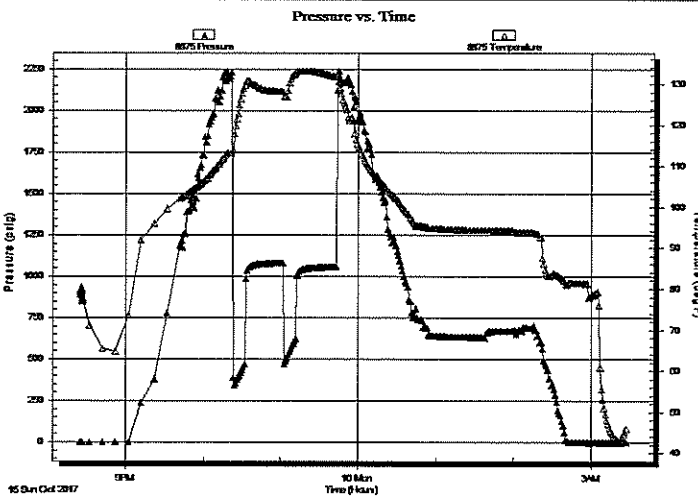
Start Time: 20:25:06

End Time: 03:27:05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 1 min.  
IS: BOB in 15 min.  
FF: BOB in 1 min.  
FS: BOB in 8 min.



### PRESSURE SUMMARY

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

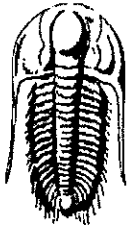
### Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcgo 10%g 70%o 20%m	1.56
1197.00	go 20%g 80%o	16.79
83.00	ocm 40%o 60%m	1.16
0.00	1429 GIP	0.00

\* 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

18-14-30w Gove,KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64263

DST#: 7

ATTN: Anderw Stenzel

Test Start: 2017.10.15 @ 20:25:03

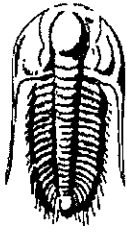
### Tool Information

Drill Pipe:	Length: 4279.00 ft	Diameter: 3.80 inches	Volume: 60.02 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4396.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	123.00 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			4370.00	
Shut In Tool	5.00			4375.00	
Hydraulic tool	5.00			4380.00	
Jars	5.00			4385.00	
Safety Joint	2.00			4387.00	
Packer	5.00			4392.00	27.00 Bottom Of Top Packer
Packer	4.00			4396.00	
Stubb	1.00			4397.00	
Recorder	0.00	8875	Inside	4397.00	
Recorder	0.00	8166	Outside	4397.00	
Perforations	25.00			4422.00	
Change Over Sub	1.00			4423.00	
Drill Pipe	63.00			4486.00	
Change Over Sub	1.00			4487.00	
Bullnose	5.00			4492.00	96.00 Bottom Packers & Anchor

**Total Tool Length: 123.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

18-14-30w Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Brownie #5**

Job Ticket: 64263

DST#: 7

ATTN: Anderw Stenzel

Test Start: 2017.10.15 @ 20:25:03

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	mcgo 10%g 70%o 20%m	1.558
1197.00	go 20%g 80%o	16.791
83.00	ocm 40%o 60%m	1.164
0.00	1429 GIP	0.000

Total Length: 1469.00 ft      Total Volume: 19.513 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: 29@50=30

Serial #: 8166

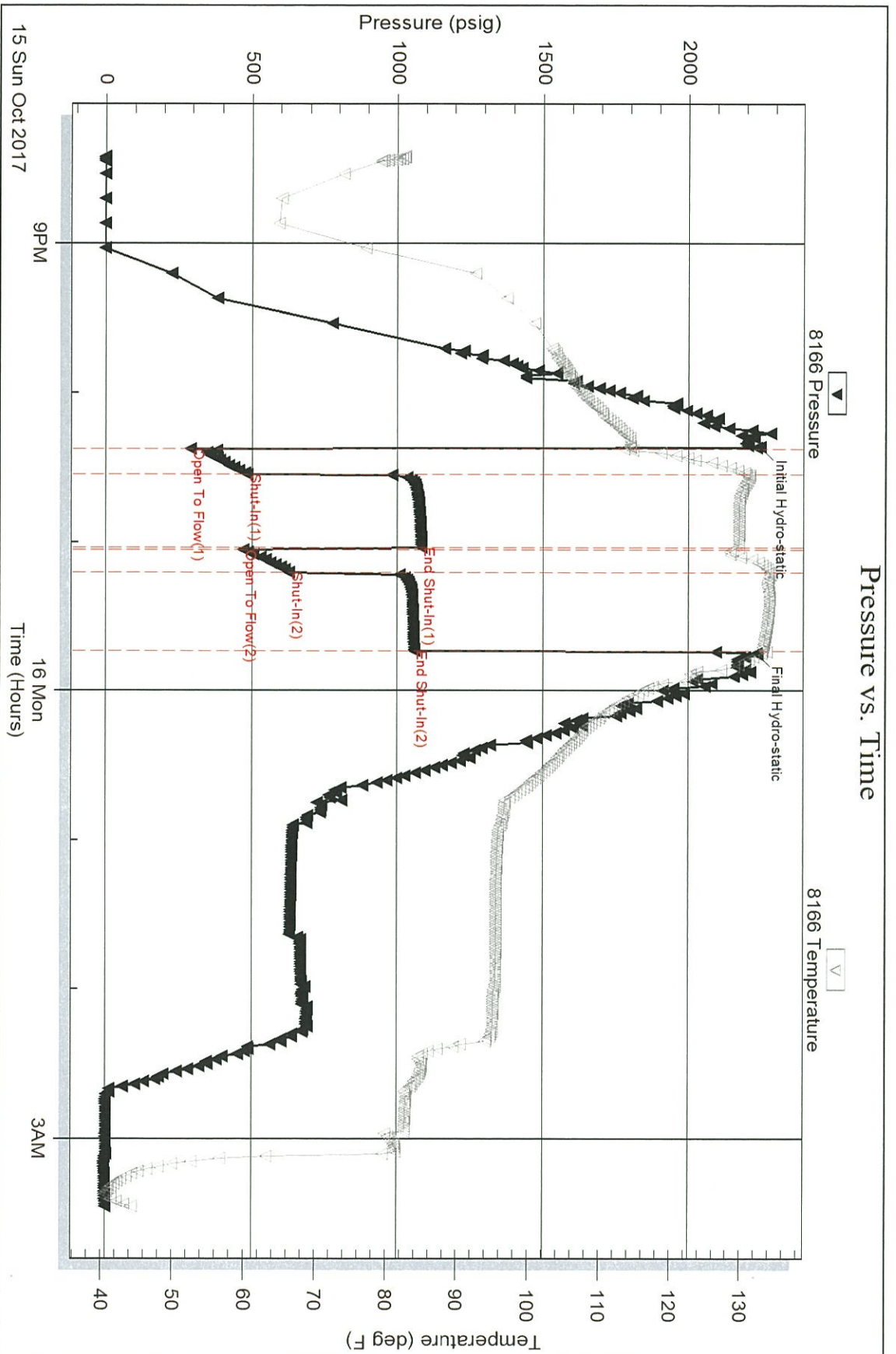
Outside

Palomino Petroleum

Brownie #5

DST Test Number: 7

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64263

Printed: 2017.10.17 @ 10:03:05

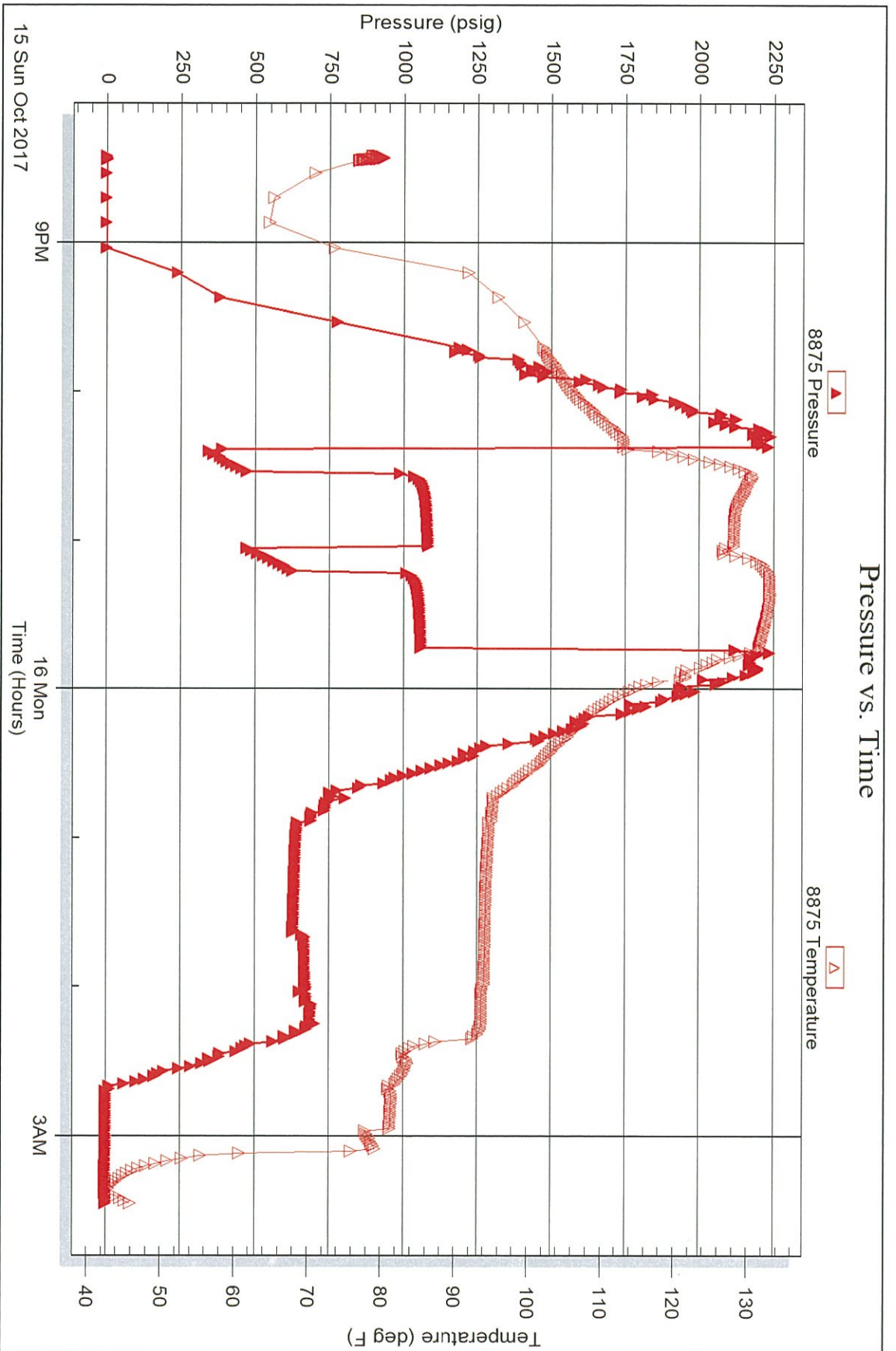
Serial #: 8875

Inside

Palomino Petroleum

Brownie #5

DST Test Number: 7





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64257**

Well Name & No. Brownie #5 Test No. 1 Date 10-10-17  
 Company Blomino Petroleum Elevation 2821 KB 2816 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Andrew Stenzel Rig WW #2  
 Location: Sec. 18 Twp. 14 Rge. 30W Co. Gove State KS

Interval Tested 3868 3910 Zone Tested Toronto, LHC A  
 Anchor Length 42 Drill Pipe Run 3743 Mud Wt. 8.7  
 Top Packer Depth 3863 Drill Collars Run 120 Vis 54  
 Bottom Packer Depth 3868 Wt. Pipe Run → WL 6.4  
 Total Depth 3960 Chlorides 1500 ppm System LCM 2

Blow Description FF: BoB in 6 1/2 mins.  
#5: surface blow died in 20 min.  
FF: BoB in 8 mins.  
F5: surface blow died in 25 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>oil</u>	<u>100</u>			
<u>181</u>	<u>OCMW</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>252</u>	<u>OCMW</u>	<u>5</u>	<u>85</u>	<u>10</u>	
<u>253</u>	<u>MLW</u>		<u>95</u>	<u>5</u>	
Rec Total <u>696</u>	BHT <u>123</u>	Gravity <u>—</u>	API RW <u>.44</u>	@ <u>38</u> °F	Chlorides <u>28,000</u> ppm

(A) Initial Hydrostatic 1960  Test 1050 T-On Location 23:30  
 (B) First Initial Flow 30  Jars 250 T-Started 1:10  
 (C) First Final Flow 214  Safety Joint 75 T-Open 3:26  
 (D) Initial Shut-In 1081  Circ Sub NIC T-Pulled 5:26  
 (E) Second Initial Flow 218  Hourly Standby \_\_\_\_\_ T-Out 8:07  
 (F) Second Final Flow 334  Mileage 115- 86.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 1055  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1885  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1461.25  
 Total 1461.25  
 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64258**

Well Name & No. Brownie #5 Test No. 2 Date 10-11-17  
 Company Palomino Petroleum Elevation 2821 KB 2816 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW#2  
 Location: Sec. 18 Twp. 14 Rge. 30W Co. Gove State KS

Interval Tested 3923 3952 Zone Tested LKL-C  
 Anchor Length 29 Drill Pipe Run 3794 Mud Wt. 9.1  
 Top Packer Depth 3918 Drill Collars Run 120 Vis 52  
 Bottom Packer Depth 3923 Wt. Pipe Run --- WL 7.2  
 Total Depth 3952 Chlorides 2200 ppm System LCM 2

Blow Description ±F: BoB in 5 min.  
±S: 5" blow,  
FF: BoB in 8 min.  
FS: 8" blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>157</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>252</u>	<u>MC90</u>	<u>20</u>	<u>30</u>		<u>50</u>
	<u>662 GIP</u>				
Rec Total	<u>406</u>	BHT <u>123</u>	Gravity <u>36</u>	API RW <u>-</u>	@ <u>-</u> °F Chlorides <u>-</u> ppm

(A) Initial Hydrostatic 1919  Test 1050 T-On Location 16:00  
 (B) First Initial Flow 38  Jars 250 T-Started 16:26  
 (C) First Final Flow 105  Safety Joint 75 T-Open 18:11  
 (D) Initial Shut-In 1132  Circ Sub NIL T-Pulled 20:11  
 (E) Second Initial Flow 115  Hourly Standby \_\_\_\_\_ T-Out 22:25  
 (F) Second Final Flow 161  Mileage 115- 86.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 1102  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1976  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

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

Sub Total 1461.25  
 Total 1461.25  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64259**

Well Name & No. Brownie #5 Test No. 3 Date 10-12-17  
 Company Palomino Petroleum Elevation 2821 KB 2816 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW #2  
 Location: Sec. 18 Twp. 14 Rge. 30W Co. Gove State KS

Interval Tested 3957 4025 Zone Tested LKC F, G  
 Anchor Length 68 Drill Pipe Run 3836 Mud Wt. 9.1  
 Top Packer Depth 3952 Drill Collars Run 120 Vis 52  
 Bottom Packer Depth 3957 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 4025 Chlorides 2200 ppm System LCM 2

Blow Description IF: BoB in 1 1/2 min.  
IS: work surging surface blow.  
FF: BoB in 2 1/2 min.  
FS: 2" blow,

Rec	Feet of	%gas	%oil	%water	%mud
<u>428</u>	<u>MWC90</u>	<u>30</u>	<u>30</u>	<u>20</u>	<u>20</u>
<u>378</u>	<u>90CMW</u>	<u>40</u>	<u>10</u>	<u>30</u>	<u>20</u>
<u>189</u>	<u>90CMW</u>	<u>40</u>	<u>10</u>	<u>40</u>	<u>10</u>
<u>189</u>	<u>MLW</u>			<u>95</u>	<u>5</u>
Rec	Feet of <u>139 GIP</u>	%gas	%oil	%water	%mud

Rec Total 1184 BHT 124 Gravity \_\_\_\_\_ API RW .10 @ 89 °F Chlorides 59,000 ppm

(A) Initial Hydrostatic 1966  Test 1150 T-On Location 9:05  
 (B) First Initial Flow 225  Jars 250 T-Started 9:35  
 (C) First Final Flow 339  Safety Joint 75 T-Open 11:45  
 (D) Initial Shut-In 1203  Circ Sub N/C T-Pulled 13:15  
 (E) Second Initial Flow 333  Hourly Standby \_\_\_\_\_ T-Out 16:00  
 (F) Second Final Flow 487  Mileage 115- 86.25  
 (G) Final Shut-In 1176  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1947  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Sub Total 0  
 Day Standby \_\_\_\_\_  
 Total 1561.25  
 Accessibility \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1561.25

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64260**

Well Name & No. Brownie #5 Test No. 4 Date 10-13-17  
 Company Palomino Petroleum Elevation 2821 KB 2816 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW #2  
 Location: Sec. 18 Twp. 14 Rge. 30W Co. Gove State KS

Interval Tested 4051 4120 Zone Tested LKC H-F  
 Anchor Length 69 Drill Pipe Run 3932 Mud Wt. 9.3  
 Top Packer Depth 4046 Drill Collars Run 120 Vis 51  
 Bottom Packer Depth 4051 Wt. Pipe Run — WL 7.2  
 Total Depth 4120 Chlorides 3000 ppm System LCM 2

Blow Description IFi BoB in 15 min.  
#5i surface blow died in 25 min.  
FFi BoB in 12 min.  
F5i surface blow built to 1/4.

Rec	Feet of	%gas	%oil	%water	%mud
<u>113</u>	<u>90cm</u>	<u>10</u>	<u>10</u>	<u>80</u>	<u>—</u>
<u>63</u>	<u>90cm</u>	<u>30</u>	<u>30</u>	<u>40</u>	<u>—</u>
<u>—</u>	<u>328 GIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 176 BHT 117 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 2000  Test 1150 T-On Location 3:30  
 (B) First Initial Flow 23  Jars 250 T-Started 4:08  
 (C) First Final Flow 69  Safety Joint 75 T-Open 6:13  
 (D) Initial Shut-In 681  Circ Sub 14/L T-Pulled 8:13  
 (E) Second Initial Flow 69  Hourly Standby \_\_\_\_\_ T-Out 10:10  
 (F) Second Final Flow 84  Mileage 115 - 86.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 640  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1998  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Sub Total 1561.25  Accessibility \_\_\_\_\_  
 Total 1561.25  Ruined Shale Packer \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Sub Total 0  Extra Copies \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64261**

Well Name & No. Brownie #5 Test No. 5 Date 10-13-17  
 Company Palomino Petroleum Elevation 2821 KB 2816 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW #2  
 Location: Sec. 18 Twp. 14 Rge. 30W Co. Gove State KS

Interval Tested 4126 4151 Zone Tested LKL J  
 Anchor Length 25 Drill Pipe Run 3996 Mud Wt. 9.3  
 Top Packer Depth 4121 Drill Collars Run 120 Vis 50  
 Bottom Packer Depth 4126 Wt. Pipe Run --- WL 6.4  
 Total Depth 4151 Chlorides 3200 ppm System LCM 1

Blow Description IF: BoB in 2 min.  
IS: BoB in 12 min.  
FF: BoB in 4 min.  
FS: BoB in 19 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>189</u>	<u>90</u>	<u>20</u>	<u>80</u>		
<u>63</u>	<u>90cm</u>	<u>40</u>	<u>10</u>	<u>50</u>	
	<u>1386 GIP</u>				
Rec Total	<u>252</u>	BHT <u>115</u>	Gravity <u>35</u>	API RW <u>-</u>	@ <u>-</u> °F Chlorides <u>-</u> ppm

(A) Initial Hydrostatic 2094  Test 1150 T-On Location 19:00  
 (B) First Initial Flow 27  Jars 250 T-Started 19:42  
 (C) First Final Flow 50  Safety Joint 75 T-Open 21:45  
 (D) Initial Shut-In 1092  Circ Sub WIL T-Pulled 23:15  
 (E) Second Initial Flow 65  Hourly Standby \_\_\_\_\_ T-Out 1:22  
 (F) Second Final Flow 86  Mileage 115- 86.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 1085  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2023  Straddle \_\_\_\_\_

Initial Open 15  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 15  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Sub Total 1561.25  Accessibility \_\_\_\_\_  
 Sub Total 1561.25  Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1561.25  
 MP/DST Disc't \_\_\_\_\_

Approved By Andrew Stenzel Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64262**

Well Name & No. Brownie #5 Test No. 6 Date 10-15-17  
 Company Palomino Petroleum Elevation 2821 KB 2816 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW #2  
 Location: Sec. 18 Twp. 14 Rge. 30W Co. Gove State KS

Interval Tested 4336 4404 Zone Tested Pawnee - Myrick station  
 Anchor Length \_\_\_\_\_ 68 Drill Pipe Run 4217 Mud Wt. 9.5  
 Top Packer Depth \_\_\_\_\_ 4331 Drill Collars Run 120 Vis 67  
 Bottom Packer Depth \_\_\_\_\_ 4336 Wt. Pipe Run \_\_\_\_\_ WL 7.6  
 Total Depth \_\_\_\_\_ 4404 Chlorides 4400 ppm System LCM 1

Blow Description IF1 BoB in 14 min.  
IS; surface blowdown 19 min.  
FF1 BoB in 4 min.  
FS1 surface built to 2.

Rec	Feet of	%gas	%oil	%water	%mud
<u>73</u>	<u>90cm</u>	<u>10</u>	<u>30</u>	<u>60</u>	<u>0</u>
<u>126</u>	<u>90cm</u>	<u>10</u>	<u>20</u>	<u>70</u>	<u>0</u>
Rec _____	Feet of <u>683 GTP</u>	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 199 BHT 120 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2149</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>00:36</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>06:50</u>
(C) First Final Flow <u>68</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:00</u>
(D) Initial Shut-In <u>873</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>5:00</u>
(E) Second Initial Flow <u>59</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>7:15</u>
(F) Second Final Flow <u>90</u>	<input checked="" type="checkbox"/> Mileage <u>115</u> - 86.25	Comments _____
(G) Final Shut-In <u>842</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2209</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Ruined Packer 320  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1881.25  
 MP/DST Disc't \_\_\_\_\_

Sub Total 1561.25

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64263**

4/10

Well Name & No. Brownie #5 Test No. 7 Date 10-15-17  
 Company Palomino Petroleum Elevation 2821 KB 2816 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW #2  
 Location: Sec. 18 Twp. 14 Rge. 30W Co. Gove State KS

Interval Tested 4396 4492 Zone Tested Fr. Scott, Johnson  
 Anchor Length 96 Drill Pipe Run 4279 Mud Wt. 8.9  
 Top Packer Depth 4391 Drill Collars Run 120 Vis 66  
 Bottom Packer Depth 4396 Wt. Pipe Run ————— WL 8.0  
 Total Depth 4492 Chlorides 4060 ppm System LCM 1

Blow Description IF: BoB in 1 min.  
IS: BoB in 15 min.  
FF: BoB in 1 min.  
FS: BoB in 8 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>83</u>	<u>60m</u>	<u>40</u>	<u>40</u>	<u>60</u>	
<u>1197</u>	<u>90</u>	<u>20</u>	<u>80</u>		
<u>189</u>	<u>MC90</u>	<u>10</u>	<u>70</u>	<u>20</u>	
	<u>1429 GIP</u>				
Rec Total	<u>1469</u>				

BHT 133 Gravity 30 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2245</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>19:30</u>
(B) First Initial Flow <u>291</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:25</u>
(C) First Final Flow <u>483</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:22</u>
(D) Initial Shut-In <u>1081</u>	<input checked="" type="checkbox"/> Circ Sub <u>50.00</u>	T-Pulled <u>23:42</u>
(E) Second Initial Flow <u>470</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:29</u>
(F) Second Final Flow <u>627</u>	<input checked="" type="checkbox"/> Mileage <u>115-x2</u> 172.50	Comments <u>logged 10-17</u>
(G) Final Shut-In <u>1057</u>	<input type="checkbox"/> Sampler _____	<u>2:30 am</u>
(H) Final Hydrostatic <u>2233</u>	<input type="checkbox"/> Straddle _____	

Initial Open 10  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In 30

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1697.50  
 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]  
 Sub Total 1697.50

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Home  
(785) 798-3400

# Andrew Stenzel Geologist

Ness City, Kansas



Call  
(785) 798-5977

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Brownie #5  
UWI: 15062223080000  
Location: NE-NW-NE-NE Sec 18-14S-30W (Gove County)  
License Number: 15-063-22308  
Spud Date: 10/2/17  
Surface Coordinates: 151'FNL & 892' FEL  
Region: KANSAS  
Drilling Completed: 10/17/17

### Bottom Hole

Coordinates:  
Ground Elevation (ft): 2816  
Logged Interval (ft): 3500 To: TD  
K.B. Elevation (ft): 2821  
Total Depth (ft): 4654

Formation:  
Type of Drilling Fluid: Mud-Co Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: Palomino Petroleum, Inc.  
Address: 4924 SE 84th St.  
Newton, KS 67114

### GEOLOGIST

Name: Andrew Stenzel  
Company: Petroleum Geologist  
Address: 501 S. Franklin  
Ness City, KS 67560

### Casing Record

**SURFACE Casing:** Ran 5 jts new 8 5/8", 24# casing @ 218'.

**PRODUCTION Casing:** Ran 5 1/2" casing

### Drilling Report

#### DAILY DRILLING REPORT:


10/2/17 MIRU, ran surface casing  
10/3/17 Waiting on cement, shut down due to heavy rain  
10/4/17 Shut Down  
10/5/17 Shut Down  
10/6/17 Shut Down  
10/7/17 Drilling @ 1466'  
10/8/17 Drilling @ 2482'  
10/9/17 Drilling @ 3147'  
10/10/17 Drilling @ 3643'  
10/11/17 DST #1, DST #2  
10/12/17 Circulating for samples @ 4025', DST #3  
10/13/17 DST #4, DST #5  
10/14/17 Drilling @ 4187'

Cher. Sh.  
Miss.  
RTD

4427 (-1606)  
4516 (-1695)  
4654 (-1833)

Cher. Sh.  
Miss.  
LTD

4433 (-1612)  
4510 (-1689)  
4660 (-1839)



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

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

**18-14-30w Gove Ks**  
**Brownie #5**  
Job Ticket: 64257      DST#: 1  
Test Start: 2017.10.11 @ 01:10:32

---

**GENERAL INFORMATION:**

Formation: Toronto- LKC A  
 Deviated: No Whipstock  
 Time Tool Opened: 03:27:32  
 Time Test Ended: 08:04:32

Interval: 3868.00 ft (KB) To 3910.00 ft (KB) (TVD)  
 Total Depth: 3910.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inchesHole Condition: Good

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

Reference Elevations: 2821.00 ft (KB)  
 2816.00 ft (CF)  
 5.00 ft  
 KB to GRICE:

---

**Serial #: 8166**      **Outside**  
 Press@RunDepth: 334.86 psig @ 3868.00 ft (KB)  
 Start Date: 2017.10.11      End Date:  
 Start Time: 01:10:37      End Time:

Capacity: 8000.00 psig  
 Last Callb.: 2017.10.11  
 Time On Blrm: 2017.10.11 @ 03:26:32  
 Time Off Blrm: 2017.10.11 @ 05:29:32

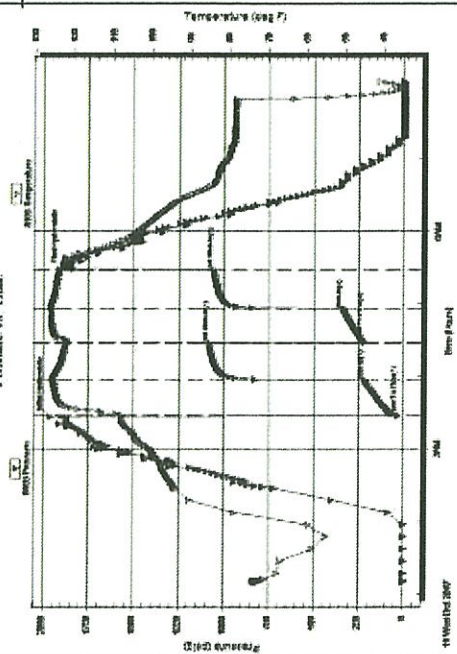
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**TEST COMMENT:** IF: BOB in 6 1/2 mins.  
 IS: Surface blow died in 20 min.  
 FF: BOB in 8 min.  
 FS: Surface blow died in 25 min.

---

**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1960.78	107.76	Initial Hydro-static
1	30.26	107.66	Open To Flow (1)
31	214.11	125.25	Shut-In(1)
61	1081.27	122.02	End Shut-In(1)
62	218.30	121.82	Open To Flow(2)
90	334.86	125.82	Shut-In(2)
121	1055.54	123.80	End Shut-In(2)
123	1885.85	121.42	Final Hydro-static



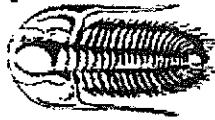
---

**Recovery**

Length (ft)	Description	Volume (bbl)
253.00	mcw 95%w 5% m	2.46
252.00	ocnw 5%o 85%w 10% m	3.53
181.00	ocnw 10%o 50%w 40% m	2.54
10.00	oil 100%o	0.14

**Gas Rates**

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



# TRIBOLITE TESTING, INC.

## DRILL STEM TEST REPORT

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

18-14-30w Gove Ks  
 Brownie #5  
 Job Ticket: 64258  
 DST#: 2  
 Test Start: 2017.10.11 @ 16:26:00

### GENERAL INFORMATION:

Formation: LKG C  
 Deviated: No Whipstock  
 Time Tool Opened: 18:11:30  
 Time Test Ended: 22:22:00

Interval: 3952.00 ft (KB) To 3952.00 ft (KB) (TVD)  
 Total Depth: 3952.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inchestHole Condition: Good

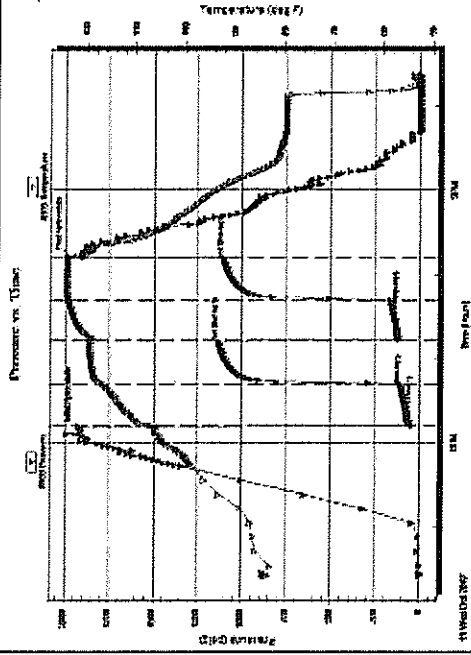
Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79

Reference Elevations: 2821.00 ft (KB)  
 2816.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside  
 Press@RunDepth: 161.06 psig @ 3924.00 ft (KB)  
 Start Date: 2017.10.11 End Date:  
 Start Time: 16:26:05 End Time:

Capacity: 8000.00 psig  
 Last Callb.: 2017.10.11  
 Time On Blm: 2017.10.11 @ 18:11:00  
 Time Off Blm: 2017.10.11 @ 20:13:00

TEST COMMENT: IF: BOB in 5 min.  
 IS: 5" blow.  
 FF: BOB in 8 min.  
 FS: 8" blow.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.11	106.31	Initial Hydro-static
1	38.80	105.25	Open To Flow (1)
30	105.89	116.56	Shut-In(1)
61	1132.36	119.36	End Shut-In(1)
62	115.26	118.73	Open To Flow(2)
90	161.08	123.47	Shut-In(2)
120	1102.43	123.68	End Shut-In(2)
122	1976.51	120.34	Final Hydro-static

### Recovery

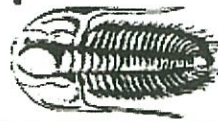
Length (ft)	Description	Volume (bbl)
252.00	mcgo 20%g 30%ho 50%fm	2.44
157.00	go 10%g 90%o	2.20
0.00	662 GIP	0.00

\*Recovery from multiple tests

### 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

**18-14-30w Gove Ks**

**Brownie #5**

Job Ticket: 64259  
Test Start: 2017.10.12 @ 09:35:13  
DST#: 3

ATTN: Andrew Stenzel

**GENERAL INFORMATION:**

Formation: LKG FG  
Deviated: No Whipstock  
Time Tool Opened: 11:46:43  
Time Test Ended: 15:54:43

ft (KB)

Interval: 3957.00 ft (KB) To 4025.00 ft (KB) (TVD)  
Total Depth: 4025.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inchesthole Condition: Good

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

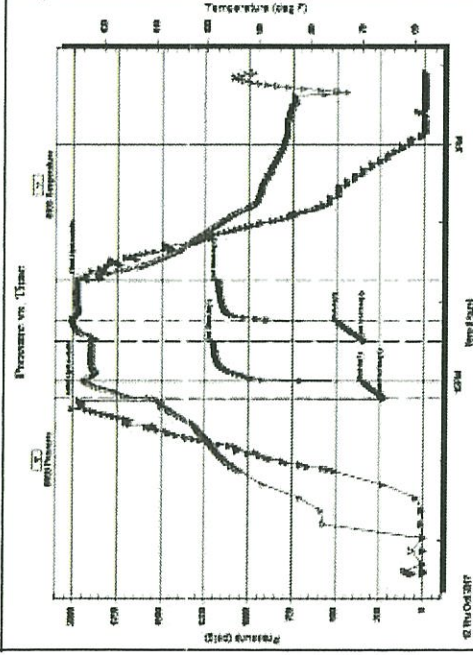
Reference Elevations: 2821.00 ft (KB)  
2816.00 ft (CF)  
5.00 ft  
KB to GRICE:

**Serial #: 8166**

Press@RunDepth: 487.28 psig @ 3958.00 ft (KB)  
Start Date: 2017.10.12  
Start Time: 09:35:18  
End Date:  
End Time:

Capacity: 8000.00 psig  
Last Calls: 2017.10.12  
Time On Birt: 2017.10.12 @ 11:44:43  
Time Off Birt: 2017.10.12 @ 13:17:13

**TEST COMMENT:** IF: BOB in 1 1/2 min.  
IS: Weak surging surface blow.  
FF: BOB in 2 1/2 min.  
FS: 2 blow.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.01	103.10	Initial Hydro-static
2	225.98	110.28	Open To Flow (1)
15	339.41	123.26	Shut-In(1)
45	1203.64	122.28	End Shut-In(1)
46	333.65	121.50	Open To Flow(2)
61	487.28	125.95	Shut-In(2)
91	1176.05	124.89	End Shut-In(2)
93	1947.27	120.54	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%g	1.56
189.00	gocmw 40%g 10%o 40%w 10%fm	2.65
378.00	gocmw 40%g 10%o 30%w 20%fm	5.30
428.00	mw cgo 30%g 30%o 20%w 20%fm	6.00
0.00	139 GJP	0.00

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 64259

Printed: 2017.10.12 @ 16:13:47

**Gas Rates**

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Palomino Petroleum

**18-14-30w Gove Ks**

ATTN: Andrew Stenzel

Test Start: 2017.10.13 @ 04:08:03

**GENERAL INFORMATION:**

Formation: LKC H-1  
 Deviated: No Whipstock ft (KB)  
 Time Tool Opened: 06:13:33  
 Time Test Ended: 10:07:03  
 Interval: 4051.00 ft (KB) To 4120.00 ft (KB) (TVD)  
 Total Depth: 4120.00 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: 2821.00 ft (KB)  
 2816.00 ft (CF)  
 KB to GRFC: 5.00 ft

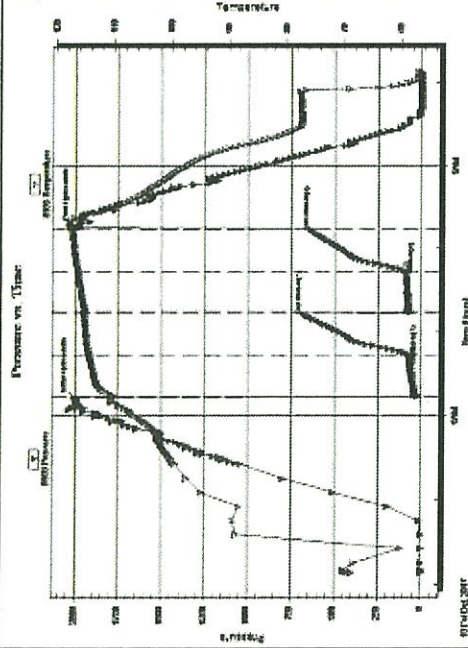
**Serial #: 8166**

Outside  
 Press@RunDepth: 85.52 psig @ 4052.00 ft (KB)  
 Start Date: 2017.10.13  
 End Date: 2017.10.13  
 Start Time: 04:08:08  
 End Time: 10:07:02

Capacity: 8000.00 psig  
 Last Calls: 2017.10.13  
 Time On Birt: 2017.10.13 @ 06:13:03  
 Time Off Birt: 2017.10.13 @ 08:16:03

**TEST COMMENT:**

IF: BOB in 15 min.  
 IS: Surface blow died in 25 min.  
 FF: BOB in 12 min.  
 FS: Surface blow built to 1/4.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.90	110.45	Initial Hydro-static
1	23.50	109.64	Open To Flow (1)
31	69.53	114.25	Shut-In(1)
60	681.90	115.18	End Shut-In(1)
62	64.55	115.05	Open To Flow (2)
90	85.52	116.17	Shut-In(2)
121	640.74	117.22	End Shut-In(2)
123	1998.97	117.51	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	gocm 30%g 30%o 40%im	0.31
113.00	gocm 10%g 10%o 80%im	1.07
0.00	328 GIP	0.00

\* Recovery from multiple tests

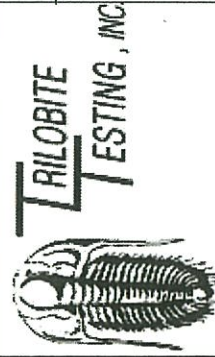
**Gas Rates**

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

Ref. No: 64280

Printed: 2017.10.13 @ 10:15:34

Trilobite Testing, Inc



**DRILL STEM TEST REPORT**

Palomino Petroleum  
 4924 SE 84th St  
 Newton, Ks 67114

18-14-30w Gove Ks

Brownie #5

Job Ticket: 64261

DST#: 5

ATTN: Andrew Stenzel

Test Start: 2017.10.13 @ 19:42:55

**GENERAL INFORMATION:**

Formation: LKC J  
 Deviated: No Whipstock  
 Time Tool Opened: 21:47:25  
 Time Test Ended: 01:21:25

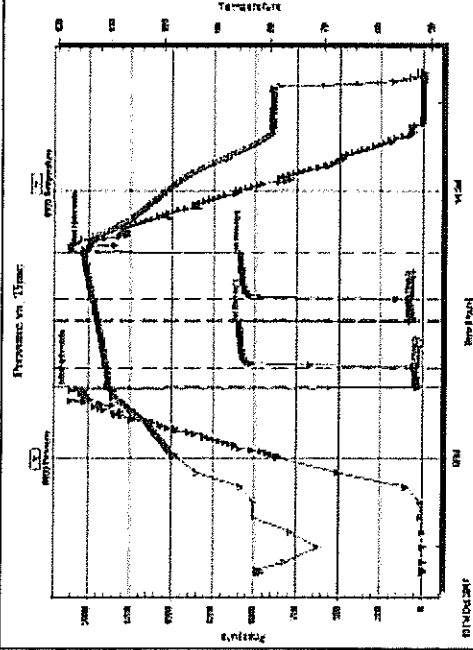
ft (KB)

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

Interval: 4126.00 ft (KB) To 4151.00 ft (KB) (TVD) Reference Elevations: 2821.00 ft (KB)  
 Total Depth: 4151.00 ft (KB) (TVD) 2816.00 ft (CF)  
 Hole Diameter: 7.88 inchesHole Condition: Good KB to GRVCF: 5.00 ft

Serial #: 8166 Outside Capacity: 8000.00 psig  
 Press@RunDepth: 86.66 psig @ 4127.00 ft (KB)  
 Start Date: 2017.10.13 End Date: 2017.10.14  
 Start Time: 19:43:00 End Time: 01:21:24  
 Time On Blm: 2017.10.13 @ 21:45:25  
 Time Off Blm: 2017.10.13 @ 23:19:25

TEST COMMENT: IF: BOB in 2 min  
 IS: BOB in 12 min  
 FF: BOB in 4 min  
 FS: BOB in 19 min



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.91	109.59	Initial Hydro-static
2	27.97	110.41	Open To Flow (1)
15	50.36	110.72	Shut-In(1)
46	1092.59	112.42	End Shut-In(1)
47	65.57	112.54	Open To Flow(2)
61	86.68	113.21	Shut-In(2)
93	1085.01	115.07	End Shut-In(2)
94	2023.02	117.34	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	90cm 40%g 10%o 50%a	0.31
189.00	9o 20%g 80%o	2.13
0.00	1386 GIP	0.00

\* Recovery from multiple tests

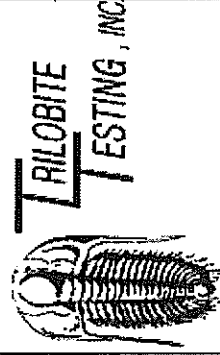
Trilobite Testing, Inc

Ref. No: 64261

Printed: 2017.10.14 @ 07:40:26

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (M/dst)



**DRILL STEM TEST REPORT**

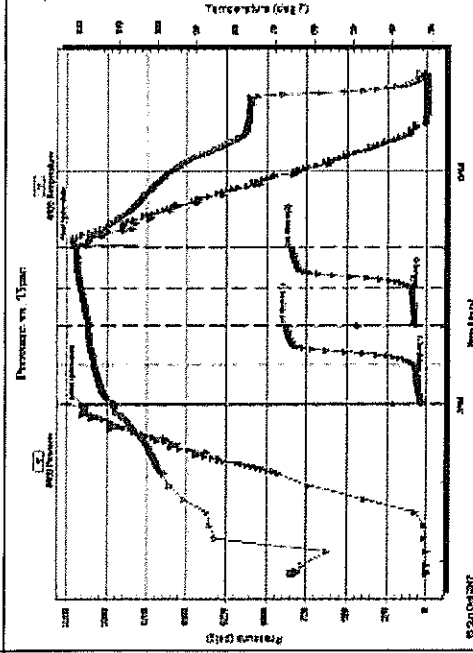
Palomino Petroleum  
 4924 SE 84th St  
 Newton, Ks 67114  
 ATTN: Andrew Stenzel  
 18-14-30w Gove Ks  
 Brownie #5  
 Job Ticket: 64262  
 DST#: 6  
 Test Start: 2017.10.15 @ 00:50:40

**GENERAL INFORMATION:**

Formation: Pawnee Myrick Statio  
 Deviated: No Whipstock  
 Time Tool Opened: 03:01:10  
 Time Test Ended: 07:15:40  
 Interval: 4336.00 ft (KB) To 4404.00 ft (KB) (TVD)  
 Total Depth: 4404.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inchesHole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2821.00 ft (KB)  
 2816.00 ft (CF)  
 KB to GRVCF: 5.00 ft

Serial #: 8166 Outside Capacity: 8000.00 psig  
 Press@RunDepth: 90.97 psig @ 4337.00 ft (KB)  
 Start Date: 2017.10.15 End Date: 2017.10.15  
 Start Time: 00:50:45 End Time: 07:15:39  
 Time On Blm: 2017.10.15 @ 03:00:10  
 Time Off Blm: 2017.10.15 @ 05:03:10

TEST COMMENT: IF: BOB in 14 min.  
 IS: Surface blow died in 19 min.  
 FF: BOB in 4 min.  
 FS: Surface blow built to 2.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.99	111.32	Initial Hydro-static
1	19.73	111.11	Open To Flow (1)
31	88.15	116.18	Shut-In(1)
60	873.37	117.82	End Shut-In(1)
61	59.98	117.62	Open To Flow(2)
90	90.97	119.58	Shut-In(2)
122	842.70	120.83	End Shut-In(2)
123	2209.58	120.74	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
128.00	gocm 10%g 20%a 70%a	0.67
73.00	gocm 10%g 30%a 60%a	1.02
0.00	683 GIP	0.00

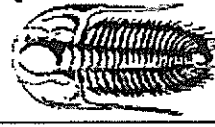
\* Recovery from gas lift  
 Triobite Testing, Inc

Ref. No: 64262

Printed: 2017.10.15 @ 08:58:00

**Gas Rates**

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



**DRILL STEM TEST REPORT**

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

18-14-30w Gove Ks  
 Brownie #5  
 Job Ticket: 64263 DST#: 7  
 Test Start: 2017.10.15 @ 20:25:03

**GENERAL INFORMATION:**

Formation: Ft Scott Johnson  
 Deviated: No Whipstock  
 Time Tool Opened: 22:22:33  
 Time Test Ended: 03:27:03  
 Interval: 4396.00 ft (KB) To 4492.00 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: 2821.00 ft (KB)  
 2816.00 ft (CF)  
 5.00 ft  
 KB to GRVCF:

**Serial #: 8166**

Press@RunDepth: 627.59 psig @ 4397.00 ft (KB)  
 Start Date: 2017.10.15  
 Start Time: 20:25:08  
 End Date: 2017.10.16  
 End Time: 03:27:02

TEST COMMENT: IF: BOB in 1 min.  
 IS: BOB in 15 min.  
 FF: BOB in 1 min.  
 FS: BOB in 8 min.

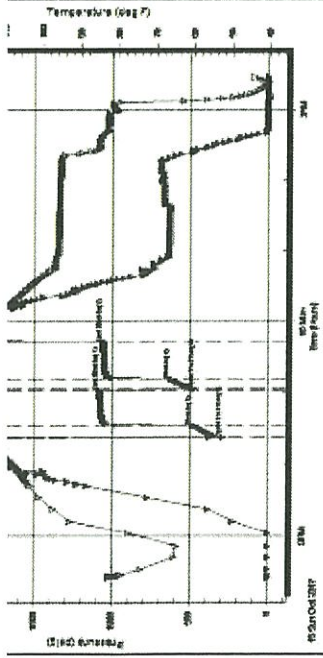
**Pressure vs. Time**



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.33	114.44	Initial Hydro-static

Capacity: 8060.00 psig  
 Last Callb.: 2017.10.16  
 Time On Birt: 2017.10.15 @ 22:21:33  
 Time Off Birt: 2017.10.15 @ 23:44:33



11	483.38	130.87	Shut-In(1)
41	1081.50	129.77	End Shut-In(1)
42	470.46	128.94	Open To Flow(2)
51	627.59	134.13	Shut-In(2)
82	1057.69	133.15	End Shut-In(2)
83	2233.71	133.06	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
189.00	mco 10%g 70%o 20%m	1.56
1197.00	go 20%g 80%o	16.79
83.00	ocm 40%o 60%m	1.16
0.00	1429 GIP	0.00

\* Recovery from multiple tests

Triobite Testing, Inc

Ref. No: 64263

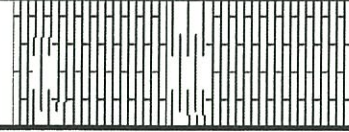
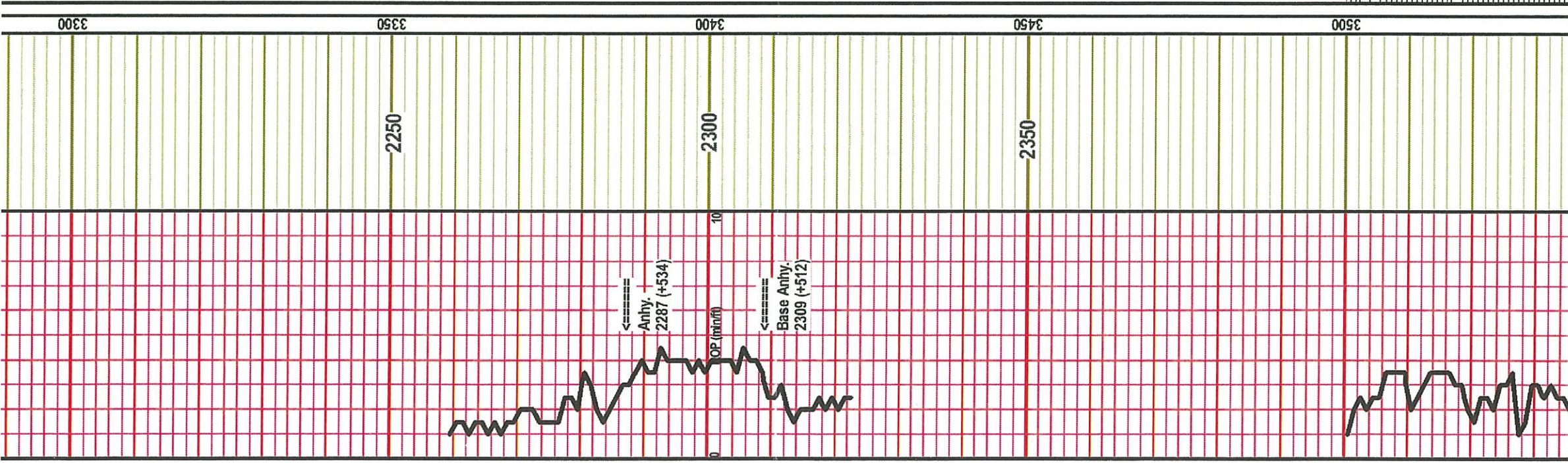
Printed: 2017.10.16 @ 07:03:42

**Gas Rates**

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

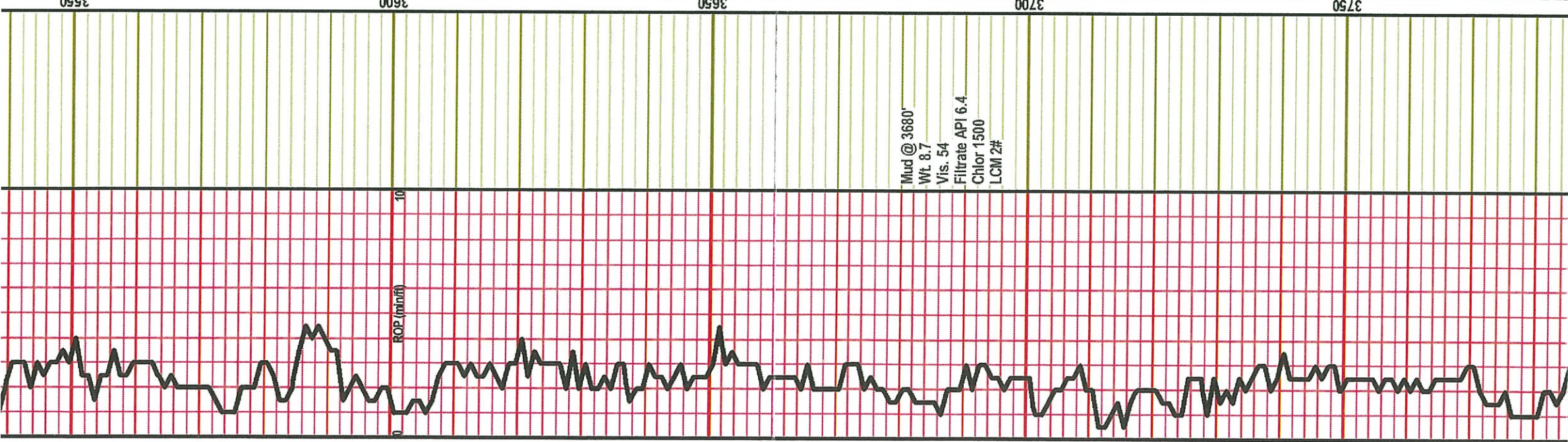


ROP (min/ft)	Misc	% Lithology	Geological Descriptions	DST
ROP (min/ft)				
0				
10				
32		Depth		
3250				

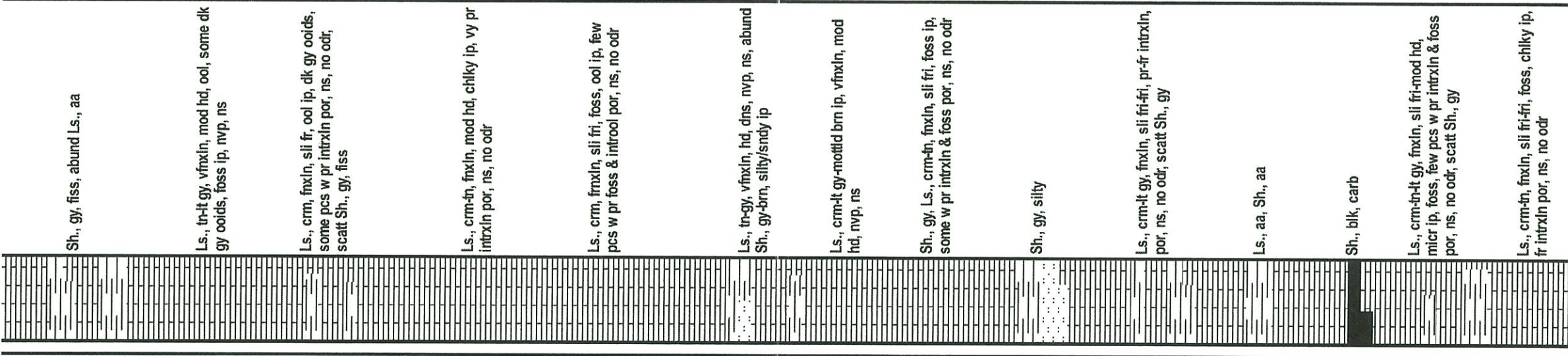


Ls., crm, fmxln, sli fri, foss, nvp, ns,  
 abund Sh., gy-blk carb ip, scatt SS, tn,  
 vfrgrn, shly, vy pr intrgran por, ns, no  
 odr

Ls., crm-buff, fmxln, sli fri-mod hd, foss  
 ip, sndy ip, nvp, ns, no odr



Mud @ 3680'  
 Wt. 8.7  
 Vis. 54  
 Filtrate API 6.4  
 Chlor 1500  
 LCM 2#



Sh., gy, fiss, abund Ls., aa

Ls., tr-t gy, vfxln, mod hd, ool, some dk gy ooids, foss ip, nvp, ns

Ls., crm, fmxln, sli fr, ool ip, dk gy ooids, some pcs w pr intrxn por, ns, no odr, scatt Sh., gy, fiss

Ls., crm-tn, fmxln, mod hd, chky ip, vy pr intrxn por, ns, no odr

Ls., crm, fmxln, sli fri, foss, ool ip, few pcs w pr foss & introol por, ns, no odr

Ls., tr-gy, vfxln, hd, dns, nvp, ns, abund Sh., gy-brn, silty/sndy ip

Ls., crm-tt gy-mottld brn ip, vfxln, mod hd, nvp, ns

Sh., gy, Ls., crm-tn, fmxln, sli fri, foss ip, some w pr intrxn & foss por, ns, no odr

Sh., gy, silty

Ls., crm-tt gy, fmxln, sli fri-fri, pr-fr intrxn, por, ns, no odr, scatt Sh., gy

Ls., aa, Sh., aa

Sh., blk, carb

Ls., crm-tt gy, fmxln, sli fri-mod hd, micr ip, foss, few pcs w pr intrxn & foss por, ns, no odr, scatt Sh., gy

Ls., crm-tn, fmxln, sli fri-fri, foss, chky ip, fr intrxn por, ns, no odr

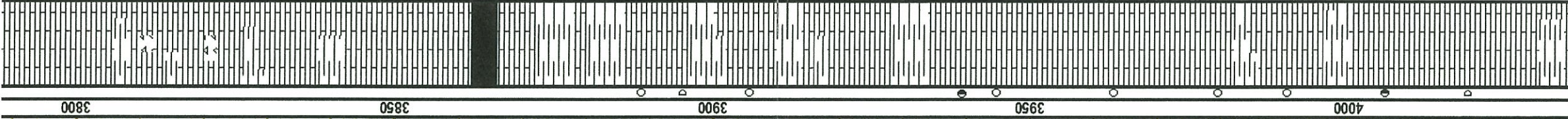
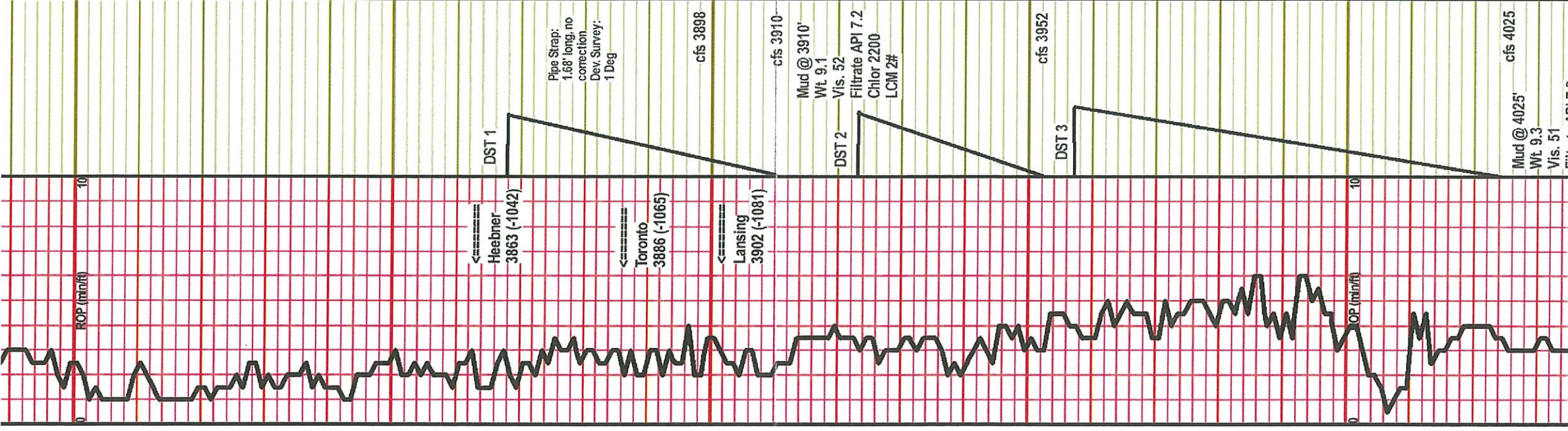
3550

3600

3650

3700

3750



Ls., crm-tn, vfnxln, mod hd, nvp, ns  
 Ls., tr-ft gy, fn-vfnxln, sli fri, foss, some w pr intrxn por, ns no odr, scatt Chrt., wht, scatt Sh., brn-gy  
 Ls., crm-tn-modifd brn ip, fmxln, mod hd-sli fri, foss ip, ool ip dk gy ooids, few pcs w pr intrxn por, ns, no odr, Sh., aa  
 Sh., blk, carb  
 Ls., tr, fn-vfnxln, mod hd, few pcs w vy pr intrxn por, NSF0, no str, or odr, abund Sh., brn-ft gy  
 Ls., crm, fn-vfnxln, mod hd-sli fri ip, some w pr-fr intrxn & small vug por, SSFO, abund ft brn str, some edge str, wk cup odr, few gas bub on brk wfr odr  
 Ls., crm, vfnxln, mod hd, dns, few pcs wvy pr intrxn por, VSSFO, tr ft brn str, no odr, abund Sh., brn-grn-gy  
 Ls., crm-tn, fmxln, mod hd, ool, some chtry nods, pr-fr introol & ooc por, tr rexln in por, SSFO, FSFO in few pcs, scatt ft brn str, wk cup odr, fr odr on brk, abund chrt., wht-cl, weath ip  
 Sh., gy-brn  
 Ls., crm, vfnxln, mod hd-hd, scatt free pyr, two pcs w vy pr iso vug por, tr ft brn str, NSF0, no odr  
 Sh., gy-brn-blk  
 Ls., crm, fmxln, sli fri, ool ip, some w pr-fr introol & fr intrxn por, abund rexln w some well dev med xls, SSFO, abund sub sat-sat str in por, gd cup odr, vy gd odr on brk  
 Ls., crm, vfnxln, mod hd-hd, dns, pyr ip, tr free pyr, nvp, ns  
 Ls., crm, fmxln, mod hd, couple pcs w pr vug por, some rexln in por, SSFO, it brn spot str, wk odr on brk  
 Ls., crm, vfnxln, mod hd, few pcs w pr intrxn & small vug por, tr rexln along edge, SSFO, tr ft brn edge str, wk odr, scatt Sh., gy, fiss  
 Ls., crm-tn, vfnxln, mod hd-hd, dns, nvp, ns, no odr, abund Sh., gy  
 Ls., crm, fn-medxln, sli fri-fri, abund rexln w well dev xls, fr vug & gd intrxn por, FSFO, sat str, some ool w pr-fr introol por, FSFO, it brn spot str, fr cup odr, gd odr on brk  
 Ls., crm-tn-ft gy, fmxln, mod hd, chiky ip, some w pr intrxn & iso vug por, VSSFO, rare ft brn str, no odr

DST #1 3868-3910  
 IF: BOB in 6 1/2 min  
 IS: WSB, died in 20 min  
 FF: BOB in 8 min  
 FS: WSB, died in 25 min  
 Recovery:  
 10' CO  
 181' OCMMW (10%O, 50%W, 40%AM)  
 252' OCMMW (5%O, 85%W, 10%AM)  
 253' MCW (95%W, 5%AM)  
 —  
 696' TF  
 FP: 30-214; 218-334  
 SIP: 1081-1055  
 HP: 1960-1885  
 BHT: 123 Deg F  
 Gravity API: —  
 Chlorides: 28000 ppm  
 DST #2 3923-3952  
 30-30-30-30  
 IF: BOB in 5 min  
 IS: Built to 5"  
 FF: BOB in 8 min  
 FS: Built to 8"  
 Recovery:  
 662' GIP  
 157' GO (10%G, 90%O)  
 252' MCGO (20%G, 30%O, 50%AM)  
 —  
 406' TF  
 FP: 38-105; 115-161  
 SIP: 1132-1102  
 HP: 1919-1976  
 BHT: 123 Deg F  
 Gravity API: 36  
 Chlor: —  
 DST #3 3957-4025  
 15-30-15-30  
 IF: BOB in 1 1/2 min  
 IS: Weak surging surface blow  
 FF: BOB in 2 1/2 min  
 FS: Built to 2"  
 Recovery:  
 139' GIP  
 428' MWCGO (30%G, 30%O, 20%W, 20%AM)  
 378' GOCMMW (40%G, 10%O, 30%W, 20%AM)  
 189' GOCMMW (40%G, 10%O, 40%W, 10%AM)  
 189' MCW (95%W, 5%AM)  
 —  
 1184' TF  
 FP: 226-339; 334-487  
 SIP: 1204-1176  
 HP: 1966-1947  
 BHT: 124 Deg F  
 Gravity API: —  
 Chlor: 59000 ppm

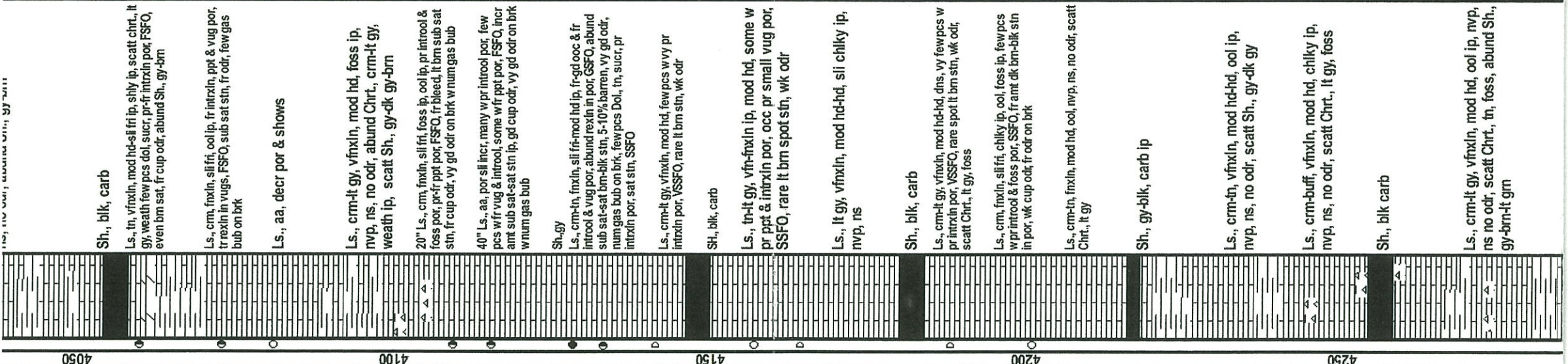
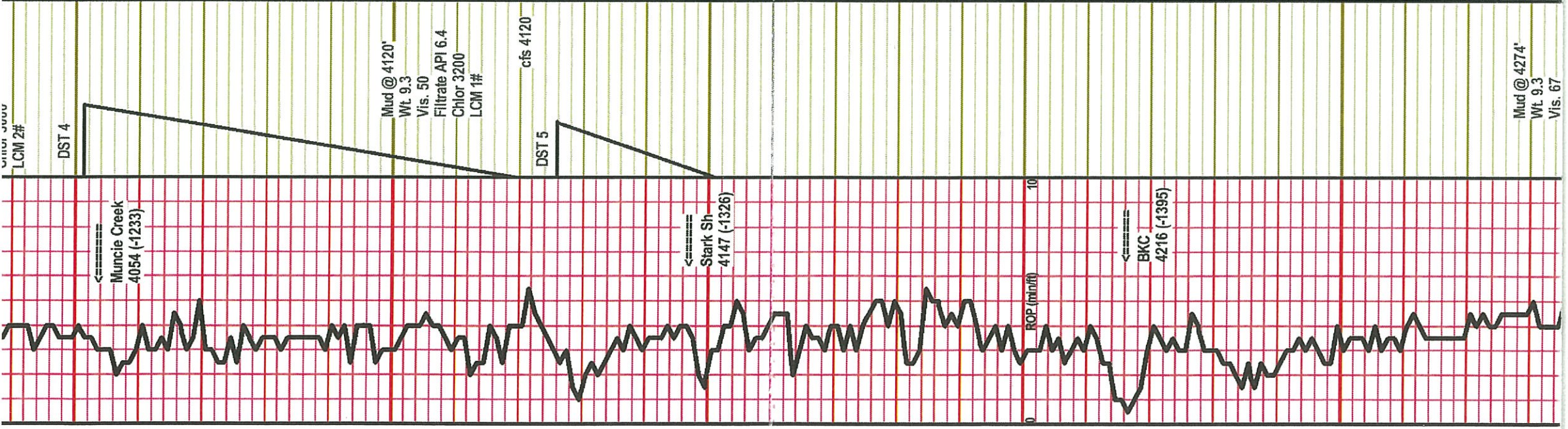


LCM 2#

Muncie Creek  
4054 (-1233)

Stark Sh  
4147 (-1326)

BKC  
4216 (-1395)



30-30-30-30  
 IF: BOB in 15 min  
 IS: SB, died in 25 min  
 FF: BOB in 12 min  
 FS: SB, built to 1/4"

Recovery:  
 328' GIP  
 113' GOCM (10%G, 10%O, 80%AM)  
 63' GOCM (30%G, 30%O, 40%AM)  
 176' TF

FP: 24-70; 65-86  
 SIP: 682-641  
 HP: 2001-1999

BHT: 117 Deg F  
 Gravity API: —  
 Chlor: —

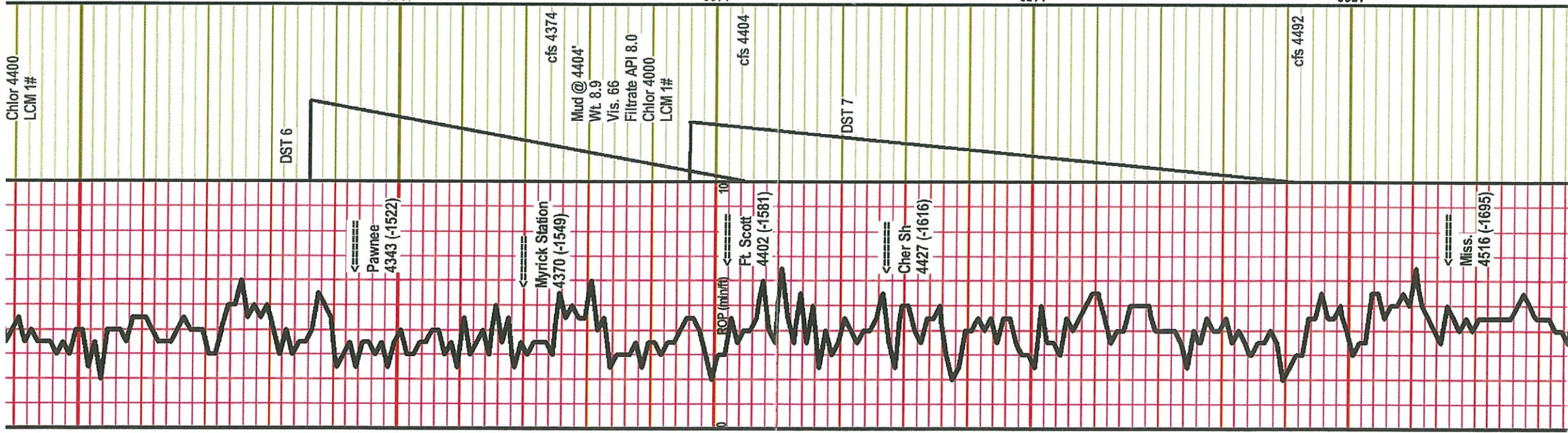
DST #5 4126-4151  
 15-30-15-30  
 IF: BOB in 2 min  
 IS: BOB in 12 min  
 FF: BOB in 4 min  
 FS: BOB in 19 min

Recovery:  
 1386' GIP  
 189' GO (20%G, 80%O)  
 63' GOCM (40%G, 10%O, 50%AM)  
 252' TF

FP: 28-50; 66-87  
 SIP: 1093-1085  
 HP: 2095-2023

BHT: 115 Deg F  
 Gravity API: 35  
 Chlor: —

112, 116, 120, 124, 128, 132, 136, 140, 144, 148, 152, 156, 160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200, 204, 208, 212, 216, 220, 224, 228, 232, 236, 240, 244, 248, 252, 256, 260, 264, 268, 272, 276, 280, 284, 288, 292, 296, 300, 304, 308, 312, 316, 320, 324, 328, 332, 336, 340, 344, 348, 352, 356, 360, 364, 368, 372, 376, 380, 384, 388, 392, 396, 400, 404, 408, 412, 416, 420, 424, 428, 432, 436, 440, 444, 448, 452, 456, 460, 464, 468, 472, 476, 480, 484, 488, 492, 496, 500, 504, 508, 512, 516, 520, 524, 528, 532, 536, 540, 544, 548, 552, 556, 560, 564, 568, 572, 576, 580, 584, 588, 592, 596, 600, 604, 608, 612, 616, 620, 624, 628, 632, 636, 640, 644, 648, 652, 656, 660, 664, 668, 672, 676, 680, 684, 688, 692, 696, 700, 704, 708, 712, 716, 720, 724, 728, 732, 736, 740, 744, 748, 752, 756, 760, 764, 768, 772, 776, 780, 784, 788, 792, 796, 800, 804, 808, 812, 816, 820, 824, 828, 832, 836, 840, 844, 848, 852, 856, 860, 864, 868, 872, 876, 880, 884, 888, 892, 896, 900, 904, 908, 912, 916, 920, 924, 928, 932, 936, 940, 944, 948, 952, 956, 960, 964, 968, 972, 976, 980, 984, 988, 992, 996, 1000



Ls., crm-buff, vfnxln, mod hd-hd, dns, foss ip, chiky ip, nvp, ns, no odr, abund Chrt., crm-clr weath ip, abund Sh., aa

Sh., gy-dk gy-brn, Ls., aa

Sh., blk, carb

Ls., crm, vfnxln, mod hd, chiky ip, dns, nvp, ns, no odr, scatt Chrt., lt gy

Ls., tn, fmxln, mod hd-sll fri ip, ool, few pcs w pr intrxn & small vug por, VSSFO, lt brn stn, wk cup odr, occ fr odr on brk

Sh., blk, carb

Ls., tn-gy-crm, fmxln, mod hd, ool, couple pcs w pr vug por, SSFO, lvy blk oil, blk tarres stn, wk odr on brk, abund Sh., gy-dk gy-brn

Ls., crm-tn, fmxln, mod hd, pr-occ fr vug & intrxn por, FSFO, lt brn spot-sub sat stn ip, wk cup odr, fr odr on brk

Ls., crm-lt gy, vnf-fmxln, mod hd, decr amt intrxn & vug por, decr shows, SSFO, spot lt brn stn, wk odr, some dns w nvp, ns

Sh., blk carb

Ls., crm-tn-lt gy, fmxln, mod hd, gran ip, tr sec xln, pr intrxn & occ pr vug por, SSFO, lt brn spot stn, wk cup odr, fr odr on brk

Ls., tn, fmxln, sll fri, ool, fr introol por, F-GSFO, sub sat-sat brn stn, gd odr, vy gd on brk w num gas bub, scatt Sh., gy

Sh., blk, carb

Ls., crm-lt gy, vfnxln, mod hd, sll chiky, 3-4 pcs w pr intrxn & vy small vug por, VSSFO, blk res stn, no det odr, scatt Sh., gy

Sh., gy-blk, carb ip

Ls., lt gy-gy, fn-vfnxln, mod hd, most dns w nvp, some w pr intrxn & iso vug por, tr rexln, SSFO, blk spot stn, no det odr

Ls., crm-lt gy, fmxln, mod hd-sll fri ip, some w pr fr intrxn & shal vug por, tr rexln, FSFO, abund dk brn-blk, spot-sub sat stn, gd cup odr

Ls., crm-tn, vfnxln, mod hd, chiky ip, few pcs w pr intrxn por, VSSFO, tr lt brn stn, wk odr, abund Sh., gy

Sh., gy-blk, carb ip

Sh., vari col, silty ip, Ls., crm, vfnxln, mod hd, nvp, ns, scatt Chrt., crm-org, weath

Sh., gy, fss

Ls., crm-buff, fn-vfnxln, mod hd, chiky ip, nvp, ns, no odr, abund Sh slough, 75% shale

DST #6 4336-4404

IF: BOB in 14 min

IS: SB, died in 19 min

FF: BOB in 4 min

FS: SB, built to 2"

Recovery:

683' GIP

126' GOCM (10%G, 20%O, 70%M)

73' GOCM (10%G, 30%O, 60%M)

199' TF

FP: 20-68; 60-91

SIP: 873-843

HP: 2150-2210

BHT: 120 Deg F

Gravity API: -

Chlor: -

DST #7 4396-4492

10-30-10-30

IF: BOB in 1 min

IS: BOB in 15 min

FF: BOB in 1 min

FS: BOB in 8 min

Recovery:

1429' GIP

189' MCGO (10%g, 70%o, 20%om)

1197' GO (20%G, 80%O)

83' OCM (40%O, 60%M)

1469' TF

FP: 291-483; 470-628

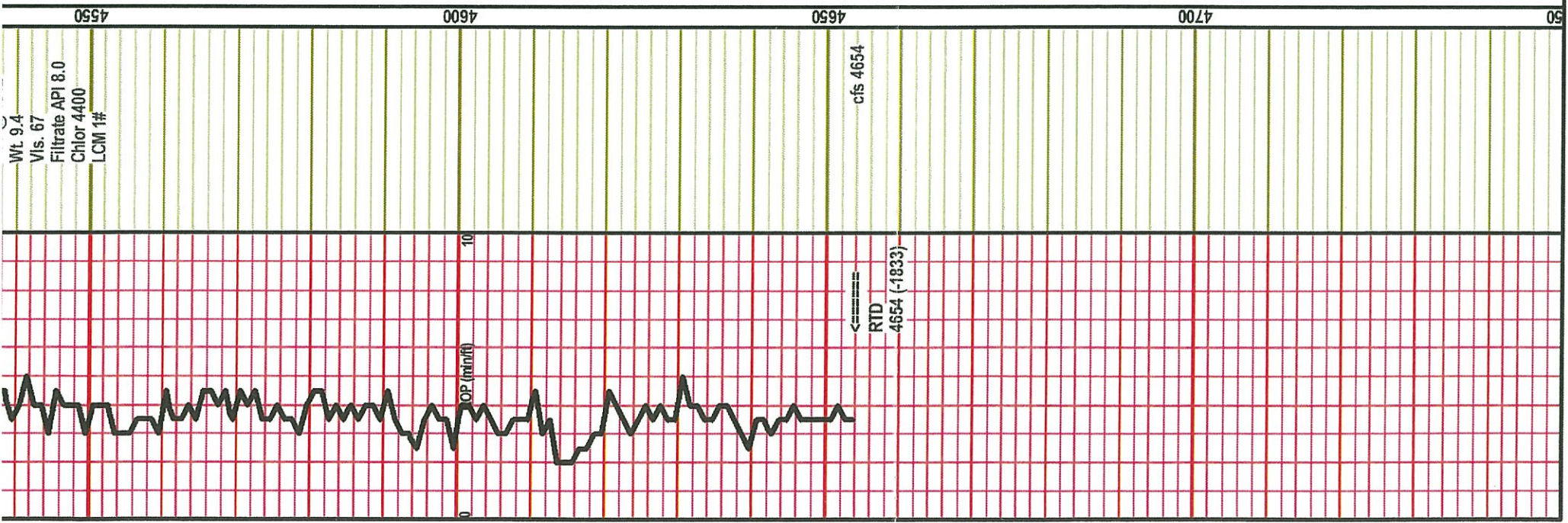
SIP: 1082-1058

HP: 2246-2238

BHT: 133 Deg F

Gravity API: 30

Chlor: -



Ls., crm., fmxln, sli fri-mod hd, some w pr  
 intrgran por, ns, no odr, decr Sh., aa  
  
 Ls., crm-tn, fmxln, mod hd-sli fri ip, chiky  
 ip, ool ip, few pcs w pr intrgran por, ns,  
 no odr, abund Sh., aa  
  
 Ls., crm-tn, vfxln, mod hd, chiky ip, nvp,  
 ns, no odr, abund Sh., vari col  
  
 Ls., crm, fmxln, sli fri, chiky, ool ip, pr  
 introol & intrxln por, ns, no odr  
  
 Ls., crm-tn, vfxln, mod hd, nvp, ns, 75%  
 Sh., gy-vari col  
  
 Ls., aa, Sh., aa

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Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov>

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Governor Jeff Colyer, M.D.

February 02, 2018

Klee Robert Watchous  
Palomino Petroleum, Inc.  
4924 SE 84TH ST  
NEWTON, KS 67114-8827

Re: ACO-1  
API 15-063-22308-00-00  
BROWNIE 5  
NE/4 Sec.18-14S-30W  
Gove County, Kansas

Dear Klee Robert Watchous:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/02/2017 and the ACO-1 was received on January 31, 2018 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department