

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	HILLERY 1
Doc ID	1455266

All Electric Logs Run

Litho Density Neutron
Dual Induction
Micro
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	HILLERY 1
Doc ID	1455266

Tops

Name	Top	Datum
Anhy.	2543	(+ 660)
Base Anhy.	2563	(+ 640)
Topeka	3732	(- 529)
Heebner	3958	(- 755)
Toronto	3972	(- 769)
Lansing	4009	(- 806)
Muncie Creek	4173	(- 970)
Stark	4270	(-1067)
BKC	4350	(-1147)
Marmaton	4393	(-1190)
Pawnee	4483	(-1280)
Ft. Scott	4544	(-1341)
Cherokee Sh.	4575	(-1372)
Miss.	4773	(-1570)
LTD	4896	(-1693)



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

RECEIVED

DEC 24 2018

Invoice

DATE	INVOICE #
12/18/2018	31923

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Hillery	Logan	Cheyenne Well	Oil	Development	Port Collar	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				110	Miles	5.00	550.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,300.00	1,300.00
330	Swift Multi-Density Standard (MIDCON II)				270	Sacks	16.25	4,387.50T
276	Flocele				50	Lb(s)	2.50	125.00T
290	D-Air				3	Gallon(s)	42.00	126.00T
105	Port Collar Tool Rental With Man				1	Each	275.00	275.00T
581D	Service Charge Cement				275	Sacks	1.75	481.25
583W	Drayage				1,459	Ton Miles	0.85	1,240.15T
	Subtotal							8,484.90
	Sales Tax Logan County						8.00%	492.29
We Appreciate Your Business!							Total	\$8,977.19



Services, Inc.

TICKET 031923

CHARGE TO: Palemino Petroleum
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Ness City, KS</u>	1	<u>Hillery</u>	<u>Logan</u>	<u>KS</u>	<u>Russell Springs</u>	<u>12/18/18</u>	
	TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
	<input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	<u>Cheyenne Well Service</u>		<u>CT</u>	<u>Location</u>		
	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.		WELL LOCATION	
	<u>Oil</u>	<u>Development</u>	<u>Port Collar</u>			<u>Russell Springs, S-Sumley</u>	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT		AMOUNT
		LOC	ACCT	DF		UM	UM	PRICE		
<u>575</u>					MILEAGE		<u>110</u>	<u>mi</u>	<u>5</u>	<u>550.00</u>
<u>575</u>	<u>6576D</u>				<u>Trk #112</u>					
<u>330</u>					<u>Pump Charge - Port Collar</u>		<u>1</u>	<u>job</u>	<u>1300.00</u>	<u>1300.00</u>
<u>276</u>					<u>SMD</u>		<u>200</u>	<u>skts</u>	<u>16.35</u>	<u>4387.00</u>
<u>290</u>					<u>Flocele</u>		<u>50</u>	<u>lbs</u>	<u>2.50</u>	<u>125.00</u>
<u>105</u>					<u>D-Air</u>		<u>3</u>	<u>gal</u>	<u>42.00</u>	<u>126.00</u>
					<u>Port Collar Tool Rental</u>		<u>1</u>	<u>job</u>	<u>275.00</u>	<u>275.00</u>
<u>581</u>					<u>Service Charge - Cement</u>		<u>26540</u>	<u>lbs</u>	<u>1.75</u>	<u>481.25</u>
<u>583</u>					<u>Drayage</u>		<u>1459</u>	<u>ftm</u>	<u>0.85</u>	<u>1240.15</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.
 X [Signature]
 DATE SIGNED 12/18/2018 TIME SIGNED 2:00 A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
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?
 CUSTOMER DID NOT WISH TO RESPOND YES NO

PAGE TOTAL 1
 TOTAL 8999.19

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR Subern Fields APPROVAL [Signature]
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 12/18/18 PAGE NO. 1

CUSTOMER Palomares Petroleum WELL NO. 1 LEASE Hillery JOB TYPE Port Collar TICKET NO. 031922

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								On Location 2 7/8" 5 1/2"
								P.C. 2508
	1205				✓		1200	Pressure Test *Hold*
	1215							Open P.C.
	1220	3			✓		200	Injection rate
	1225	4	150		✓		400	Mix 270 sks of SMD 1/4# Flo @ 11.2lb/gal Circulate to Surface * 15 sks *
	1305	3 1/2	13		✓		400	Displace Cement
	1315				✓		1200	Close P.C. Test *Hold*
	1320							Run 4 joints
	1330	3	28		✓		200	Reverse Clean
								Wash-up Truck
								*270 sks of SMD 1/4# Flo used * * 15 sks to pitt
	014:00							Job Complete
								Thank you
								Gideon, Preston, Isaac



RECEIVED

DEC 17 2018

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



Invoice

DATE	INVOICE #
12/13/2018	27436

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Hillary	Logan	WW Drilling Rig ...	Oil	Development	Longstring	David E
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
578D-L	Pump Charge - Long String				1	Job	1,300.00	1,300.00
290	D-Air				3	Gallon(s)	42.00	126.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
403-5	5 1/2" Cement Basket				1	Each	275.00	275.00T
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	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
409-5	5 1/2" Turbolizer				12	Each	85.00	1,020.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	16.25	2,031.25T
325	Standard Cement				100	Sacks	13.00	1,300.00T
284	Calseal				5	Sack(s)	35.00	175.00T
283	Salt				550	Lb(s)	0.20	110.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				55	Lb(s)	2.50	137.50T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				1,020	Ton Miles	0.85	867.00
	Subtotal							12,485.50
	Sales Tax Logan County						8.00%	761.98
We Appreciate Your Business!							Total	\$13,247.48



CHANGE TO: Palomino Petroleum
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 27436
 PAGE 1 OF 1

SERVICE LOCATIONS
 1. Fraps Co WELL/PROJECT NO. 11111 LEASE Willard COUNTY/PARISH Lafayette STATE LA CITY _____ DATE 12-13-18 OWNER _____
 2. Ness City Co CONTRACTOR Well Drilling RIG NAME/NO. Big 12 SHIPPED VIA OT DELIVERED TO location ORDER NO. _____
 3. _____ WELL TYPE _____ WELL CATEGORY _____ JOB PURPOSE development long string WELL PERMIT NO. _____
 4. _____ REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
575					80	mi				5.00	400.00
578				Long Charge - long string	1	EA				1300.00	1300.00
290				D-Air	3	EA				42.00	126.00
281				Mud Flush	500	GA				1.00	950.00
231				Groin Bar	4	EA				25.00	100.00
403				Cement Basket	1	EA				225.00	225.00
404				Port Collar	1	EA				2500.00	2500.00
406				Latch Down plug & Baffle	1	EA				250.00	250.00
402				Insert floor shoe w/ subll	1	EA				325.00	325.00
409				Sublizer	12	EA				85.00	1020.00
409				Rotating Head Center	1	EA				200.00	200.00

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

DATE SIGNED _____ TIME SIGNED _____

DATE SIGNED _____ TIME SIGNED _____

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 13949.48

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Dustin Edgerton APPROVAL _____

Thank You!



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

TICKET CONTINUATION

TICKET No. **27436**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WEIGHT				DATE	UNIT PRICE	AMOUNT
		LOG	ACCT	DR			QTY	U/M	QTY	U/M			
330							125	SK			12-13-12	16.25	2031.25
325						Standard Cement	150	SK				13.00	1950.00
284						Alsea	5	SK				35.00	175.00
283						SALT	550	BS				1.20	660.00
285						PER-1	50	BS				4.50	225.00
236						Flux	55	BS				2.50	137.50

SERVICE CHARGE
 MILEAGE TOTAL \$5482
 CHARGE \$0

CUBIC FEET
 205 SK

TON MILES
 1020

CONTINUATION TOTAL **5239.50**

JOB LOG

SWIFT Services, Inc.

DATE 12-13-18 PAGE NO.

CUSTOMER Palomina Ref # WELL NO. # 1 LEASE Hillard JOB TYPE Long String TICKET NO. 27456

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2200							On location
								Csg - 5 1/2 x 15.5 #
								PTD - 4895
								Total Pipe - 4895'
								Shoc - 43.37 Baffle @ 4851
								Centralizers - 1, 3, 5, 7, 9, 11, 12, 14, 16, 18
								20 @ 56
								Basket - 57
								Port Collar - 57 @ 2508
	2345							Start Running Csg
	230							Circ on Bottom
	330	2.5	8			0		Plug rat hole - 30 sks cmr
	335	5.5	12			600		Pump Mudflush - 500 GAL
		5.5	20			6150		Pump Key Spacer
	345	5.5	10			6100		Start CMT - SMD @ 12.5 PPG
	400	5.5	36					Switch to EA-2 @ 15.5 PPG
		5.5	60			250		End CMT
								Drop plug - WASH P&L
	410	5.25	0			0		Start Disp
	430	5.25	118			900/1500		land plug - lift - 900 #
								land - 1500 #
								Release Psi - Day
								Job Complete
								Thanks
								David, Zach & Isaac



REMIT TO
 QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

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

Invoice Invoice# 814682

Invoice Date: 12/06/18 Terms: Net 30 Page 1

PALOMINO PETROLEUM, INC.
 4924 SE 84TH STREET
 NEWTON KS 67114-8827
 USA

RECEIVED
 DEC 10 2018

HILLERY #1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	25.000	862.50
CE0002	Equipment Mileage Charge - Heavy Equipment	35.000	7.1500	25.000	187.69
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	25.000	495.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	170.000	24.0000	25.000	3,060.00

Subtotal 6,140.25
 Discounted Amount 1,535.06
 SubTotal After Discount 4,605.19

Amount Due 6,466.65 If paid after 01/05/19

Tax: 244.80
 Total: 4,849.99



PRESSURE PUMPING LLC

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

12/25
12008

FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 55953
LOCATION Oakley, KS
FOREMAN Jerry Y

Invoice # 814682

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-1-18	6285	Hillery #1	18	145	35W	Logan
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Palomino			731	Corey D		
MAILING ADDRESS			579	Neil W		
4924 SE 84th Street			533	Jerry Y		
CITY	STATE	ZIP CODE				
Newton	Ks	6				

Russ 115 pgs
2W to 240
4.5 to 1000
2W to 220
15, E in 4

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220 CASING SIZE & WEIGHT 8 5/8 23#
CASING DEPTH 219 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.8 SLURRY VOL 1.24 WATER gal/sk _____ CEMENT LEFT in CASING 20'
DISPLACEMENT 12 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting aug upon well 12 circulate casing mix 1705 lbs
con 3 & 2 washup displacer with 12 1/2 gal H₂O & slat in

cement did come into
cellar

Thank you

Jerry Y

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	35	MILEAGE	7.15	250.25
CE0711	7.99	ton mileage delivery	660.00	660.00
1884 AC05871	170.5 SKS	surface blend II	24.00	4092.00
			subtotal	6140.25
			-25%	1535.06
			subtotal	4605.19
			SALES TAX	244.80
			ESTIMATED TOTAL	4849.99

Ravin 3737

AUTHORIZATION

TITLE

Tool Pusher

DATE

12-1-18

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

TERMS AND CONDITIONS

ATTENTION: THESE TERMS AND CONDITIONS CONTAIN INDEMNITY PROVISIONS FOR DAMAGE TO PERSONS AND PROPERTY.

All Services or Products provided by QES Pressure Pumping LLC (f/k/a Consolidated Oil Well Services LLC) are subject to these Terms and Conditions unless superseded by a Master Service Agreement signed by the parties. In the event Customer does not accept these Terms and Conditions as written, Customer must request a Master Service Agreement from QES' Contracts Administration Department at msa@qeslp.com.

The operations, services, supplies, materials, personnel or goods to be provided ("Services" or "Products" as applicable) by QES Pressure Pumping LLC ("QES") will be provided to you as customer ("Customer") in accordance with the following terms and conditions ("Agreement"). QES and Customer may be referred to as "Party" or "Parties".

1. Price and Taxes. Customer will pay QES for the Services or Products in accordance with QES' quoted price which exclude applicable taxes or process license fees. Customer shall pay all applicable taxes and process license fees related to the Services and/or Products. QES' prices are subject to change without notice.

2. Terms of Payment. Customer will pay QES cash in advance for Services and Products unless QES has approved credit prior to the performance of the Services and/or delivery of the Products. Credit terms for approved accounts require full payment of the invoiced amount within 30 days from the date of invoice. All invoices not paid within 30 days will be charged an interest rate of 1 1/2% per month or the maximum rate allowed under applicable state law, whichever is higher. Customer will be responsible for any fees incurred by QES in the collection of any amounts owed to QES including but not limited to attorney's fees and/or collection fee costs.

3. Proof of Services or Delivery of Products. QES will furnish verification of proof of Services performed and Product delivered to Customer's representative at the time of performance of the Services or Product delivery. Customer agrees to sign and return such verification indicating Customer's acceptance of the Services or Products.

4. Delivery or Completion. All liability and responsibility of QES ceases when (1) Products are delivered to the Customer by QES and no longer in the care, custody and control of QES or (2) when the carrier receives the Products and/or shipment. QES will not be responsible for loss or damage to Products in transit or for delays of carriers in delivering goods. In case of shortage, non-conformance, or apparent damage, it is the Customer's responsibility to secure written acknowledgment from the carrier before Customer accepts delivery. Additionally, QES will not be liable for any damage for delays in delivery or completion due to a Force Majeure (as defined below), acts or omissions of the Customer, third party material or manufacturing delays, impossibility or impracticability of performance or any other cause or causes beyond the control of QES. In the event of a delay caused by the aforesaid, the delivery or completion date will be extended for a period equal to any such delay, and the purchase or service will not be void or voidable as a result thereof.

5. Well or Service Site Conditions. Customer, having custody and control of the well and/or service site, and having superior knowledge of the same and the conditions surrounding them, warrant that the well and/or service site will be in proper condition to receive and accommodate Services and Products. Upon QES request, Customer will provide documentation to verify that the well or service site is adequate to support the Services and the delivery of Products. Customer also warrants that QES' personnel and equipment will be able to safely access the well and service site and that any special equipment or road improvements required for such access will be the responsibility of Customer, unless otherwise agreed to by the parties.

6. Chemical Handling and Hazardous Materials. Customer agrees that for any waste created as part of the Services, Customer will be considered the "generator" for purposes of any applicable laws or regulations pertaining to the transportation, storage and handling of chemicals and hazardous materials.

7. Data, Data Transmission and Storage. QES does not warrant or guarantee the accuracy of any research analysis, survey, or other data generated for the Services. QES is not responsible for any accidental or intentional interception of such data by third parties and it is the responsibility of the Customer to safeguard such data against loss including any need to secure digital or paper copies for storage.

8. WARRANTIES - LIMITATION OF LIABILITY

a) QES warrants that the Services and Products will (i) be free from defects in materials and workmanship, (ii) be performed in a good and workmanlike manner, in accordance with good oilfield servicing practices, and (iii) conform to the plans, specifications and technical information provided in writing by Customer until the Services or Products are accepted by Customer or QES' contractual obligations are met. In the event that Customer discovers a defect in the Services or Products within the warranty period specified above, Customer will notify QES of such defect. In the event that QES confirms that the Services or Products are defective, QES's liability and Customer's exclusive remedy in any cause of action (whether in tort, contract, breach of warranty or otherwise) arising out of the sale or use of any Services or Products is expressly limited to, at QES' option, the (i) replacement of such Services or Products upon their return to QES or (ii) a credit to Customer for the full price paid by Customer for the defective segment of the Services or Products upon their return to QES. In the case of products or parts not wholly of QES' manufacture, QES' liability will be limited to the extent of its recovery from the manufacturer of such products or parts under its liability to QES. QES will not be liable for any damages, claims, losses or expenses of Customer resulting from such defects or for damages resulting from delays, loss of use, or other direct, indirect, incidental, punitive or consequential damages of any kind. QES will not be responsible for: (i) failures of Services that have been in any way tampered with or altered by anyone other than an authorized representative of QES, (ii) failures due to lack of compliance with recommended maintenance procedures, and (iii) products requiring replacement due to normal wear and tear.

b) EXCEPT FOR THE WARRANTIES EXPRESSLY STATED ABOVE, THERE ARE NO OTHER WARRANTIES. THE PARTIES EXPRESSLY EXCLUDE AND CUSTOMER WAIVES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

c) IN NO EVENT WILL QES' ENTIRE LIABILITY (IN TORT, CONTRACT, WARRANTY, INFRINGEMENT OR OTHERWISE) TO CUSTOMER EXCEED THE PURCHASE PRICE ACTUALLY PAID BY CUSTOMER FOR THE SERVICES OR PRODUCTS THAT GIVE RISE TO A DISPUTE. THIS PROVISION WILL SURVIVE ANY TERMINATION OF THIS AGREEMENT.

9. INDEMNIFICATION AND WAIVER OF CONSEQUENTIAL DAMAGES.

9.1 For purpose of this Section 9, the following definitions will apply: "QES Group" means QES Pressure Pumping LLC, its parent company, and affiliated companies, and its and their officers, directors, employees, contractors, subcontractors and invitees. "Customer Group" means Customer, its parent (if any), subsidiary and affiliated companies, co-owners, co-venturers, partners and any entity with whom Customer has an economic interest with respect to the Services, including Customer's joint interest owners and partners and its and their officers, directors, employees, contractors (not including QES), subcontractors and invitees.

9.2 QES INDEMNITY. QES AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER, ARISING IN CONNECTION WITH THE SERVICES, ON ACCOUNT OF BODILY INJURY, ILLNESS, OR DEATH OF ANY MEMBER OF QES GROUP OR DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF QES GROUP.

9.3 CUSTOMER INDEMNITY. CUSTOMER AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS QES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER, ARISING IN CONNECTION WITH THE SERVICES, ON ACCOUNT OF BODILY INJURY, ILLNESS, OR DEATH OF ANY MEMBER OF CUSTOMER GROUP OR DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF CUSTOMER GROUP.

9.4 WELL. CUSTOMER WILL RELEASE, PROTECT, DEFEND, AND INDEMNIFY QES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER IN THE EVENTS OF: (i) LOSS OR DAMAGE TO ANY GEOLOGICAL FORMATION, STRATA OR OIL OR GAS RESERVOIR OR MINERAL OR WATER RESOURCE BENEATH THE SURFACE OF THE LAND OR WATER, (ii) LOSS OR DAMAGE TO THE HOLE OR WELL, (iii)

IMPAIRMENT OF PROPERTY RIGHTS OR OTHER INTERESTS IN OR TO OIL, GAS, MINERAL OR WATER RESOURCES, AND (iv) REGAINING CONTROL OF ANY WILD WELL OR OUT OF CONTROL WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING REMOVAL OF WRECK, DEBRIS, EQUIPMENT, AND HAZARDOUS MATERIALS AND REMEDIATING ENVIRONMENTAL DAMAGE.

9.5 POLLUTION RESPONSIBILITY. Subject to paragraphs 9.2 and 9.3. It is understood and agreed between Customer and QES that the responsibility for pollution shall be as follows:

(a) QES WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WILL PROTECT, DEFEND AND INDEMNIFY CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND OF CHARACTER ARISING FROM POLLUTION OR CONTAMINATION WHICH ORIGINATES ABOVE THE SURFACE OF THE LAND OR WATER FROM THE EQUIPMENT OF ANY MEMBER OF QES GROUP MAINTAINED IN QES GROUPS' CARE, CUSTODY AND CONTROL, AND ARISING FROM THE PERFORMANCE OF THE SERVICES.

(b) CUSTOMER WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WILL PROTECT, DEFEND AND INDEMNIFY QES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER ARISING FROM POLLUTION OTHER THAN THAT DESCRIBED IN SECTION 9.5(A) ABOVE, WHICH MAY OCCUR DURING THE CONDUCT OF OPERATIONS HEREUNDER, INCLUDING, BUT NOT LIMITED TO, POLLUTION RESULTING FROM FIRE, BLOWOUT, CRATERING, SEEPAGE OR OTHER UNCONTROLLED FLOW OF OIL, GAS OR OTHER SUBSTANCE.

9.6 WAIVER OF CONSEQUENTIAL DAMAGES. NOTWITHSTANDING ANY PROVISION TO THE CONTRARY, CUSTOMER AND QES FURTHER AGREE THAT NEITHER PARTY WILL BE LIABLE TO THE OTHER OR EACH OTHER'S RESPECTIVE GROUP FOR ANY CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFIT, LOSS OF PRODUCTION, REVENUE, OR ANTICIPATED BUSINESS ("LOSSES"). CUSTOMER AGREES TO INDEMNIFY AND HOLD QES GROUP HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS FOR SUCH LOSSES ASSERTED BY MEMBERS OF CUSTOMER GROUP. QES AGREES TO INDEMNIFY AND HOLD CUSTOMER GROUP HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS FOR SUCH LOSSES ASSERTED BY MEMBERS OF QES GROUP.

9.7 EXCEPT AS OTHERWISE EXPRESSLY LIMITED BY THIS AGREEMENT OR BY LAW, ALL RELEASES, INDEMNITY OBLIGATIONS AND OTHER LIABILITIES ASSUMED UNDER THIS AGREEMENT WILL BE WITHOUT LIMIT AND WITHOUT REGARD TO THE CAUSE OR CAUSES, INCLUDING, WITHOUT LIMITATION, PREEXISTING CONDITIONS, UNSEAWORTHINESS, STRICT LIABILITY, WILLFUL MISCONDUCT, AND THE SOLE, JOINT, GROSS, OR CONCURRENT NEGLIGENCE OF ANY PARTY.

9.8. Each Party hereunder agrees to support its indemnity obligations with liability insurance coverage with limits of liability not less than ten million dollars (\$10,000,000). It is the express intention of the Parties that the indemnities contained herein apply to the fullest extent permitted by applicable law, and in no event will a Party's indemnity obligation be limited to the amount of insurance carried by each Party.

THIS SECTION 9 WILL SURVIVE THE TERMINATION OR EXPIRATION OF THIS AGREEMENT.

10. **Insurances.** All insurance policies of either Party, in any way related to the Services, whether or not required by this Agreement, shall to the extent of the risks and liabilities assumed by such party: (i) name the other party group as additional insured (except for worker's compensation, OEE/COW or professional liability policies), (ii) waive subrogation as to the other party group, and (iii) be primary and non-contributory to any insurance of the other-party group.

11. **Force Majeure.** Except the obligation to make payments when due, neither QES nor Customer will be liable nor deemed to be in breach of this Agreement for any delay or failure in performance resulting from the acts of God, civil or military authority, material change of law, any governmental action, acts of public enemy, war, accidents, fires, explosions, earthquakes, floods, failure of transportation, national strikes, acute or unusual labor, material or equipment shortages, or any similar or dissimilar cause beyond the reasonable control of either Party. The Party so affected will as soon as such a cause or event occurs, promptly notify the other Party in writing concerning the cause and the estimated effect and take reasonable measures with proper dispatch to remedy the condition. In the event Customer declares a force majeure occurrence, QES will be compensated at the standard daily rate for the materials and personnel that are standing idle as a consequence of the force majeure occurrence until Customer terminates the work order or work resumes.

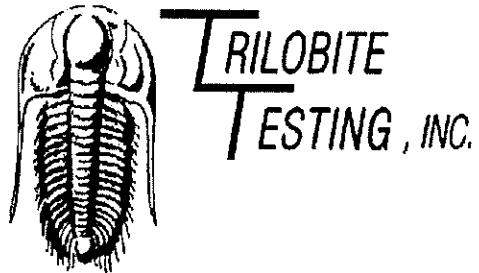
12. **Governing Law.** This Agreement will be governed by the laws of the State of Texas, without regard to its conflicts of law provisions. The Parties agree to submit to the exclusive jurisdiction of the federal or state courts located in Houston, Harris County, Texas with respect to any and all disputes that arise out of or are caused in any way to the subject matter of this Agreement. This Section 12 will survive the termination or expiration of this Agreement.

13. **Independent Contractor.** QES will be an independent contractor with respect to the Services performed and neither QES nor anyone employed by QES will be deemed for any purpose to be the employee, agent, servant, borrowed servant or representative of Customer.

14. **Severability.** In the event any provision of this Agreement is inconsistent with or contrary to any applicable law, rule or regulation, the provision will be deemed modified to the extent required to comply, and the remaining terms, as modified, will remain in full force and effect.

15. **Waiver.** A waiver on the part of either Party of any breach of any term, provision or condition of this Agreement will not constitute a precedent and not bind either Party hereto to a waiver of any succeeding or other breach of the same or any other term, provision or condition of this Agreement.

16. **Entire Agreement.** This Agreement contains the entire agreement of the Parties with regard to the subject matter hereof and supersedes any prior oral and written agreements, contracts, representations or warranty between the Parties relating to the subject matter hereof. No amendment or modification of this Agreement will be effective unless it is in writing and signed by an authorized representative of each Party. If the Parties enter into a Master Service Agreement, then any term or condition herein which conflicts with the provisions of such Master Service Agreement will be deemed invalid.



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

Hillery #1

18-14-35w Logan,KS

Start Date: 2018.12.05 @ 14:04:00

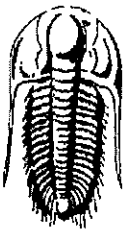
End Date: 2018.12.05 @ 20:55:30

Job Ticket #: 64437 DST #: 1

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

Printed: 2018.12.13 @ 12:03:31

Palomino Petroleum, Inc. 18-14-35w Logan,KS Hillery #1 DST # 1 Topoka 2018.12.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

18-14-35w Logan, KS

Hillery #1

Job Ticket: 64437

DST#: 1

Test Start: 2018.12.05 @ 14:04:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:34:30

Time Test Ended: 20:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **3696.00 ft (KB) To 3753.00 ft (KB) (TVD)**

Reference Elevations: 3203.00 ft (KB)

Total Depth: 3753.00 ft (KB) (TVD)

3193.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: **8522** Inside

Press@RunDepth: 281.84 psig @ 3697.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.12.05

End Date:

2018.12.05

Last Calib.: 2018.12.05

Start Time: 14:04:05

End Time:

20:55:29

Time On Btm: 2018.12.05 @ 16:34:00

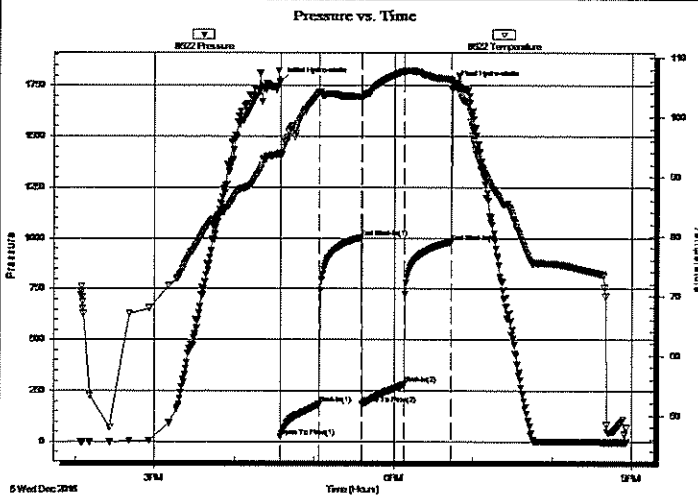
Time Off Btm: 2018.12.05 @ 18:45:00

TEST COMMENT: 30- IF: BOB @ 6 min. built to 28".

30- IS: No return.

30- FF: BOB @ 8 min. built to 26"

30- IS: No return.



PRESSURE SUMMARY

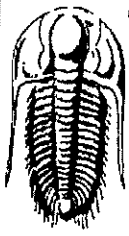
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.06	94.02	Initial Hydro-static
1	24.50	93.54	Open To Flow (1)
30	182.27	104.13	Shut-In(1)
61	1002.01	103.42	End Shut-In(1)
62	182.77	103.27	Open To Flow (2)
94	281.84	107.71	Shut-In(2)
129	980.08	106.36	End Shut-In(2)
131	1756.39	105.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	mcw 15m 85w (oil spots in tool)	6.77

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-14-35w Logan, KS

Hillery #1

Job Ticket: 64437

DST#: 1

Test Start: 2018.12.05 @ 14:04:00

GENERAL INFORMATION:

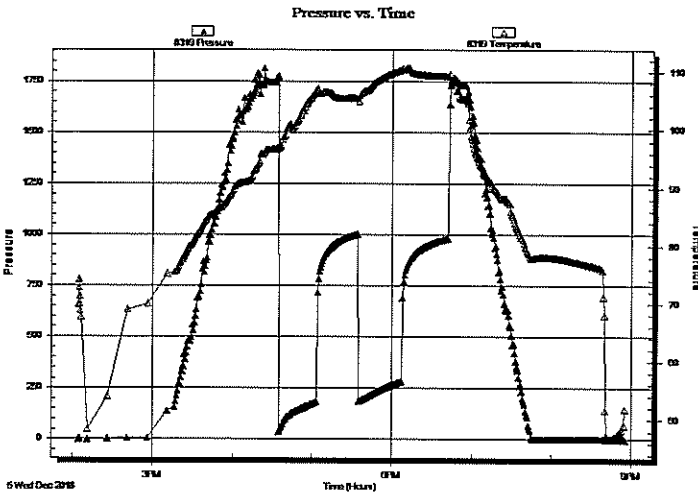
Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:34:30
 Time Test Ended: 20:55:30
 Interval: **3696.00 ft (KB) To 3753.00 ft (KB) (TVD)**
 Total Depth: 3753.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3203.00 ft (KB)
 3193.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8319** Outside
 Press@RunDepth: psig @ 3697.00 ft (KB)
 Start Date: 2018.12.05 End Date: 2018.12.05
 Start Time: 14:04:23 End Time: 20:55:17

Capacity: 8000.00 psig
 Last Calib.: 2018.12.05
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF: BOB @ 6 min. built to 28".
 30- IS: No return.
 30- FF: BOB @ 8 min. built to 26".
 30- IS: No return.



PRESSURE SUMMARY

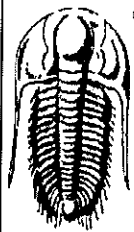
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
600.00	mcw 15m 85w (oil spots in tool)	6.77

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
Newton, KS 67114

Hillery #1

Job Ticket: 64437

DST#: 1

ATTN: Ryan Seib

Test Start: 2018.12.05 @ 14:04:00

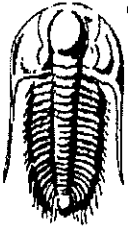
Tool Information

Drill Pipe:	Length: 3515.00 ft	Diameter: 3.80 inches	Volume: 49.31 bbl	Tool Weight: 2500.00 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: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 50.20 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3696.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3670.00	
Shut In Tool	5.00		Fluid	3675.00	
Hydraulic tool	5.00			3680.00	
Jars	5.00			3685.00	
Safety Joint	2.00			3687.00	
Packer	5.00		Inside	3692.00	27.00 Bottom Of Top Packer
Packer	4.00			3696.00	
Stubb	1.00			3697.00	
Recorder	0.00	8522	Inside	3697.00	
Recorder	0.00	8319	Outside	3697.00	
Perforations	20.00			3717.00	
Change Over Sub	1.00			3718.00	
Drill Pipe	31.00			3749.00	
Change Over Sub	1.00			3750.00	
Bullnose	3.00			3753.00	57.00 Bottom Packers & Anchor
Total Tool Length:	84.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

18-14-35w Logan,KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64437

DST#: 1

ATTN: Ryan Seib

Test Start: 2018.12.05 @ 14:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

41000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
600.00	mcw 15m 85w (oil spots in tool)	6.768

Total Length: 600.00 ft Total Volume: 6.768 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .249 @ 50F = 41000ppm

Serial #: 8522

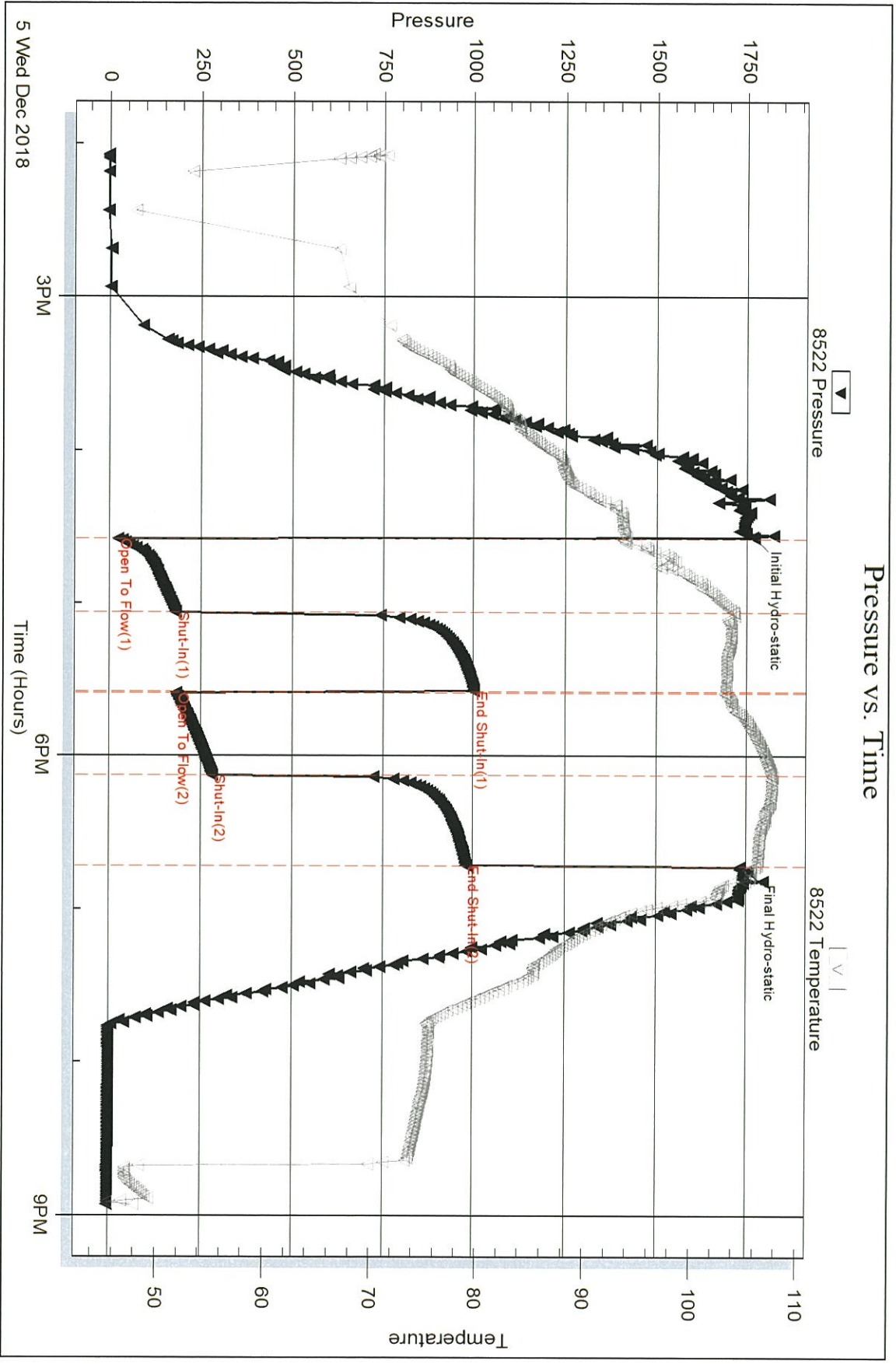
Inside

Palomino Petroleum, Inc.

Hillery #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64437

Printed: 2018:12:13 @ 12:03:31

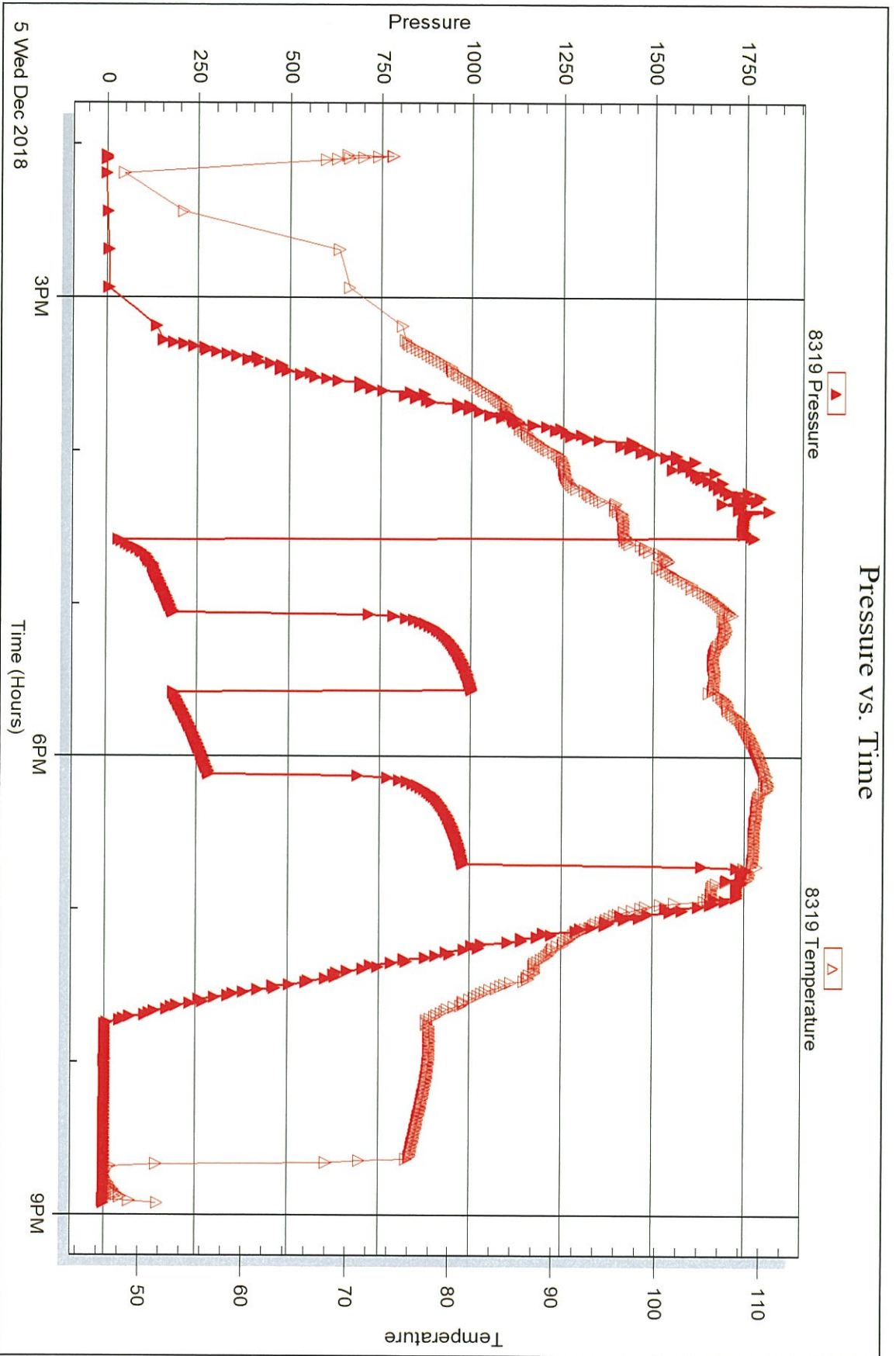
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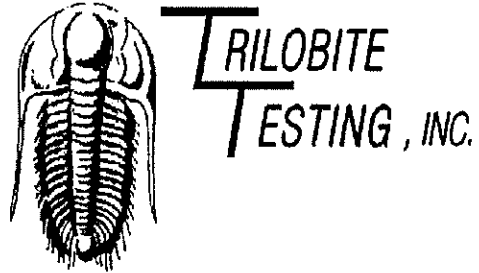
Outside

Palomino Petroleum, Inc.

Hillery #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

Hillery #1

18-14-35w Logan,KS

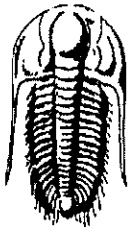
Start Date: 2018.12.06 @ 12:44:00

End Date: 2018.12.06 @ 19:11:45

Job Ticket #: 64438 DST #: 2

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

Printed: 2018.12.13 @ 11:51:41



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64438

DST#: 2

ATTN: Ryan Seib

Test Start: 2018.12.06 @ 12:44:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:49:45

Time Test Ended: 19:11:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 3887.00 ft (KB) To 3997.00 ft (KB) (TVD)

Total Depth: 3870.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3203.00 ft (KB)

3193.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 212.38 psig @ 3888.00 ft (KB)

Start Date: 2018.12.06

End Date:

2018.12.06

Capacity: 8000.00 psig

Last Calib.: 2018.12.06

Start Time: 12:44:05

End Time:

19:11:44

Time On Btm: 2018.12.06 @ 14:49:15

Time Off Btm: 2018.12.06 @ 16:57:30

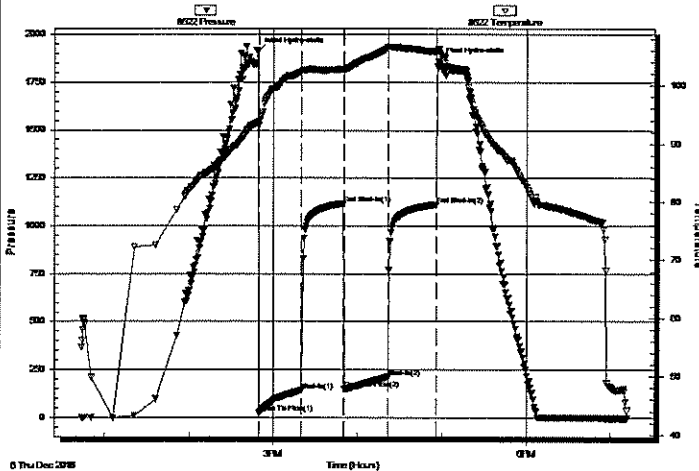
TEST COMMENT: 30- IF: BOB @ 17 min. Built to 17".

30- IS: No return.

30- FF: BOB @ 19 min. Built to 15"

30- FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.04	93.67	Initial Hydro-static
1	22.67	93.13	Open To Flow (1)
31	142.62	102.35	Shut-In(1)
61	1116.80	102.82	End Shut-In(1)
62	147.97	102.75	Open To Flow (2)
92	212.38	106.39	Shut-In(2)
127	1110.58	105.83	End Shut-In(2)
129	1860.55	106.17	Final Hydro-static

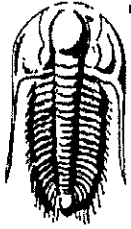
Recovery

Length (ft)	Description	Volume (bbl)
420.00	mcw 20m 80w (oil spots in tool)	4.24

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

18-14-35w Logan, KS

Hillery #1

Job Ticket: 64438

DST#: 2

Test Start: 2018.12.06 @ 12:44:00

GENERAL INFORMATION:

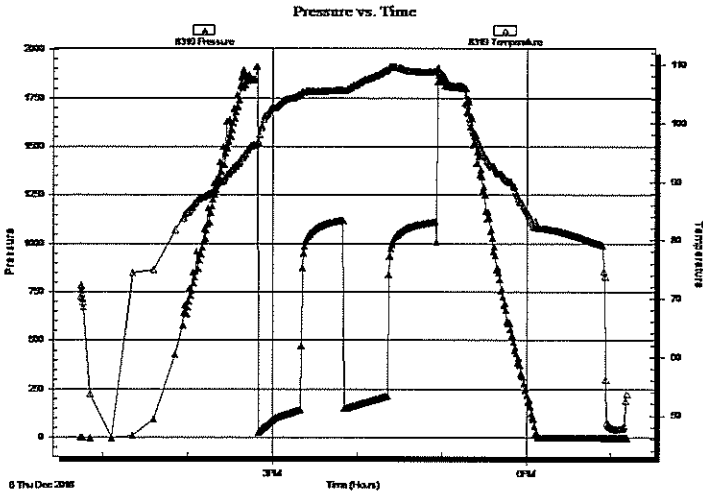
Formation: **Topeka**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: **14:49:45**
 Time Test Ended: **19:11:45**
 Interval: **3887.00 ft (KB) To 3997.00 ft (KB) (TVD)**
 Total Depth: **3870.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Bradley Waller**
 Unit No: **78**
 Reference Elevations: **3203.00 ft (KB)**
3193.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8319 **Outside**

Press@RunDepth:	psig @	3888.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2018.12.06	End Date:	2018.12.06	Last Calib.:	2018.12.06
Start Time:	12:44:05	End Time:	19:11:29	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 30- IF: BOB @ 17 min. Built to 17".
 30- IS: No return.
 30- FF: BOB @ 19 min. Built to 15"
 30- FS: No return.



PRESSURE SUMMARY

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

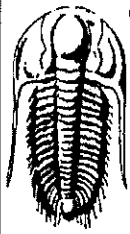
Recovery

Length (ft)	Description	Volume (bbl)
420.00	mcw 20m 80w (oil spots in tool)	4.24

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
Newton, KS 67114

Hillery #1

Job Ticket: 64438

DST#: 2

ATTN: Ryan Seib

Test Start: 2018.12.06 @ 12:44:00

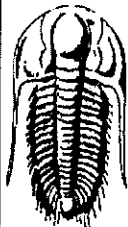
Tool Information

Drill Pipe:	Length: 3705.00 ft	Diameter: 3.80 inches	Volume: 51.97 bbl	Tool Weight: 2500.00 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: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3887.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3861.00	
Shut In Tool	5.00		Fluid	3866.00	
Hydraulic tool	5.00			3871.00	
Jars	5.00			3876.00	
Safety Joint	2.00			3878.00	
Packer	5.00		Inside	3883.00	27.00 Bottom Of Top Packer
Packer	4.00			3887.00	
Stubb	1.00			3888.00	
Recorder	0.00	8522	Inside	3888.00	
Recorder	0.00	8319	Outside	3888.00	
Perforations	14.00			3902.00	
Change Over Sub	1.00			3903.00	
Drill Pipe	63.00			3966.00	
Change Over Sub	1.00			3967.00	
Bullnose	3.00			3970.00	83.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64438

DST#: 2

ATTN: Ryan Seib

Test Start: 2018.12.06 @ 12:44:00

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:

35000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	mcw 20m 80w (oil spots in tool)	4.243

Total Length: 420.00 ft Total Volume: 4.243 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .279 @ 52f = 35000ppm

Serial #: 8522

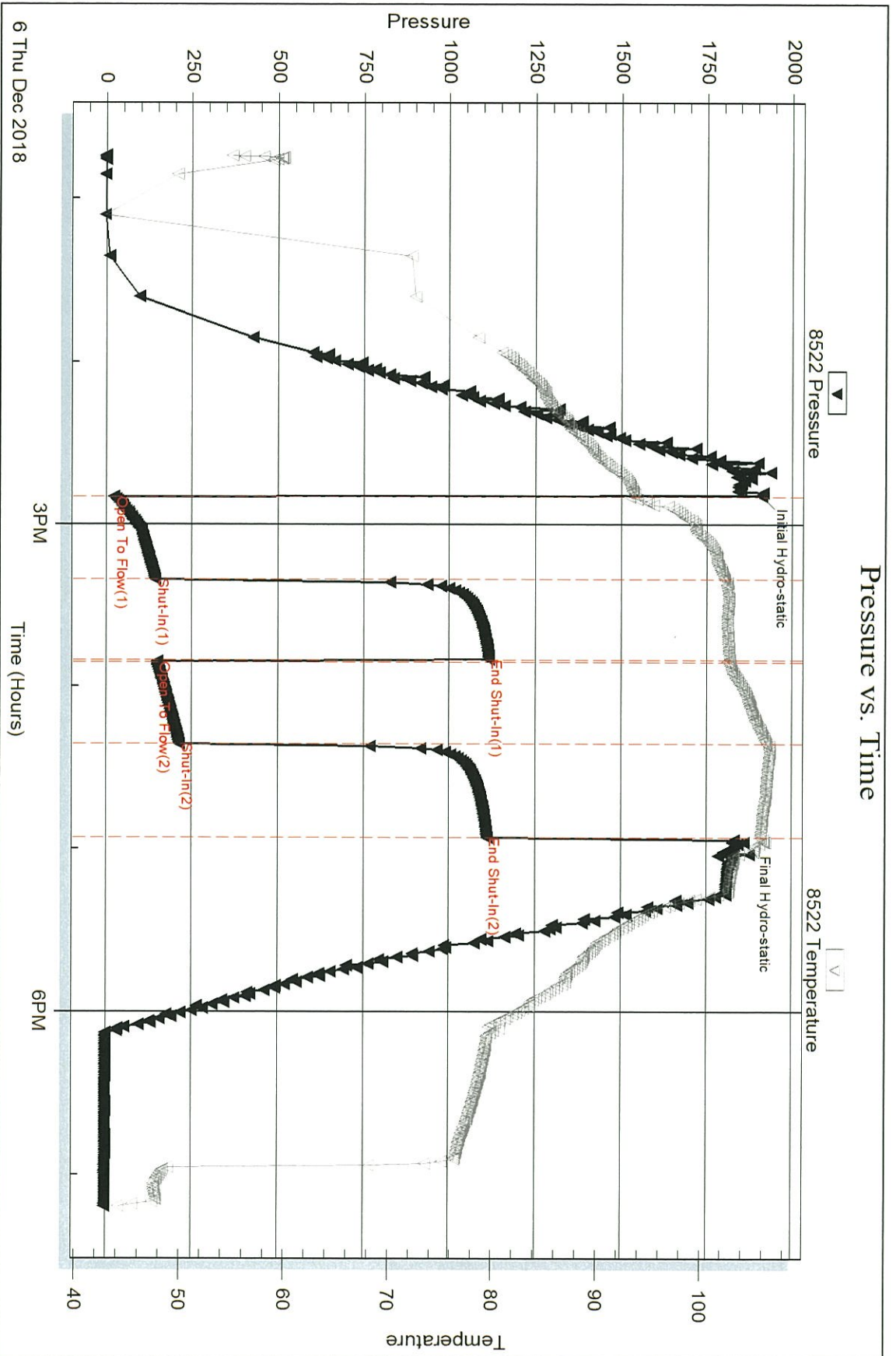
Inside

Palomino Petroleum, Inc.

Hillery #1

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 64438

Printed: 2018.12.13 @ 11:51:42

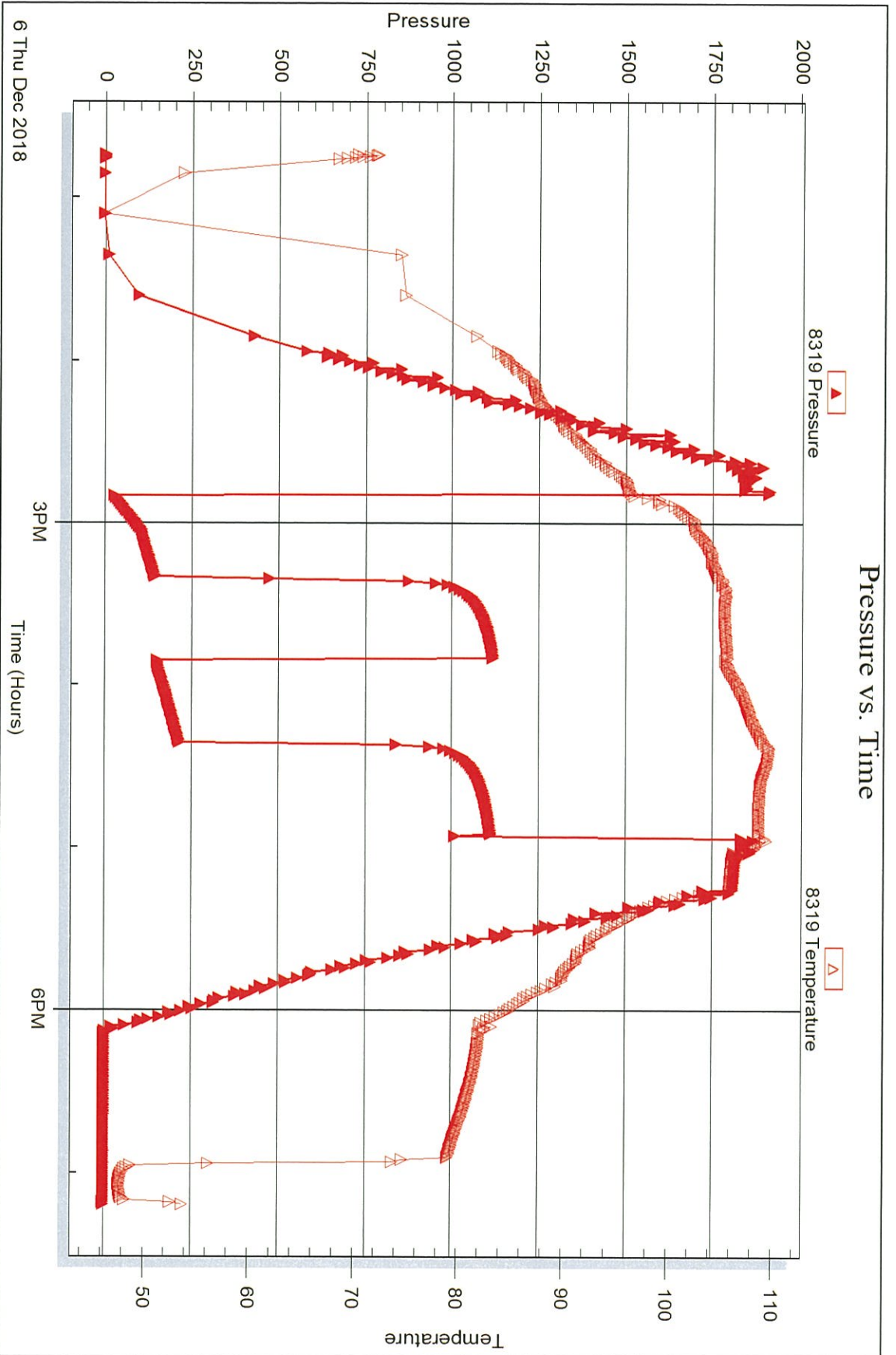
Serial #: 8319

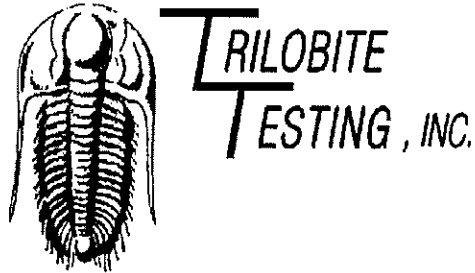
Outside

Palomino Petroleum, Inc.

Hillery #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

Hillery #1

18-14-35w Logan,KS

Start Date: 2018.12.07 @ 10:44:00

End Date: 2018.12.07 @ 19:16:15

Job Ticket #: 64439 DST #: 3

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

Printed: 2018.12.13 @ 11:51:18

Palomino Petroleum, Inc. 18-14-35w Logan,KS Hillery #1 DST # 3 LKC B - C 2018.12.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

18-14-35w Logan,KS

Hillery #1

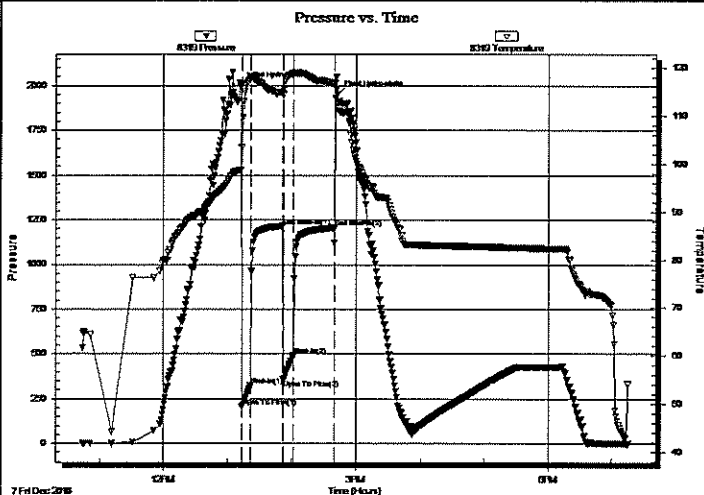
Job Ticket: 64439 **DST#: 3**
Test Start: 2018.12.07 @ 10:44:00

GENERAL INFORMATION:

Formation: **LKC B - C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:13:45
Time Test Ended: 19:16:15
Interval: **4036.00 ft (KB) To 4100.00 ft (KB) (TVD)**
Total Depth: **4100.00 ft (KB) (TVD)**
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 3203.00 ft (KB)
3193.00 ft (CF)
KB to GR/CF: 10.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Serial #: 8319 **Outside**
Press@RunDepth: 491.41 psig @ 4037.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.12.07 End Date: 2018.12.07 Last Calib.: 2018.12.07
Start Time: 10:44:05 End Time: 19:16:15 Time On Btm: 2018.12.07 @ 13:12:15
Time Off Btm: 2018.12.07 @ 14:42:45

TEST COMMENT: 10- IF: BOB @ 80 sec. Built to 55".
30- IS: Surface return, died @ 20 min.
10- FF: BOB @ 90 sec, Built to 51".
30- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.33	98.68	Initial Hydro-static
2	205.02	103.33	Open To Flow (1)
10	324.64	117.60	Shut-In(1)
40	1214.42	114.56	End Shut-In(1)
41	353.89	114.20	Open To Flow (2)
50	491.41	118.75	Shut-In(2)
88	1205.00	116.47	End Shut-In(2)
91	1951.86	112.55	Final Hydro-static

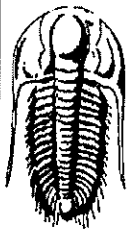
Recovery

Length (ft)	Description	Volume (bbl)
1200.00	mcw 5m 95w (oil spots on top)	15.18

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
Newton, KS 67114

Hillery #1

ATTN: Ryan Seib

Job Ticket: 64439

DST#: 3

Test Start: 2018.12.07 @ 10:44:00

GENERAL INFORMATION:

Formation: **LKC B - C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:13:45
 Time Test Ended: 19:16:15

Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Bradley Walter**
 Unit No: **78**

Interval: **4036.00 ft (KB) To 4100.00 ft (KB) (TVD)**
 Total Depth: **4100.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

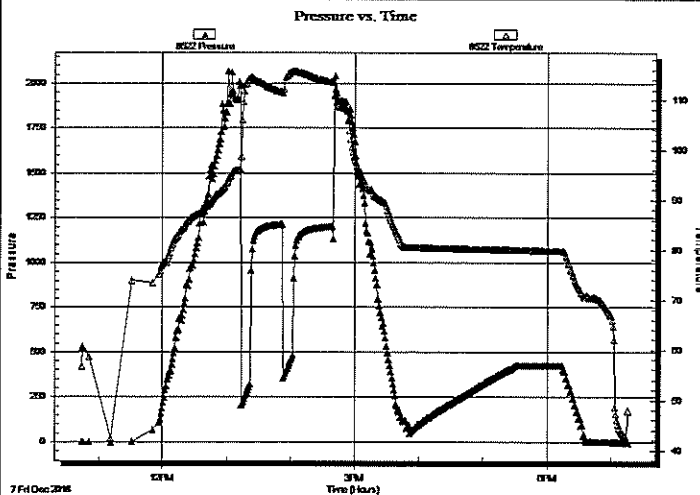
Reference Elevations: **3203.00 ft (KB)**
3193.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8522 **Inside**Press@RunDepth: psig @ **4037.00 ft (KB)**Capacity: **8000.00 psig**Start Date: 2018.12.07 End Date: **2018.12.07**Last Calib.: **2018.12.07**Start Time: 10:44:05 End Time: **19:16:15**

Time On Btm:

Time Off Btm:

TEST COMMENT: 10- IF: BOB @ 80 sec. Built to 55".
 30- IS: Surface return, died @ 20 min.
 10- FF: BOB @ 90 sec, Built to 51".
 30- FS: No return.



PRESSURE SUMMARY

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

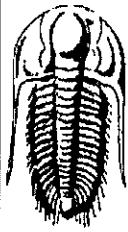
Recovery

Length (ft)	Description	Volume (bbl)
1200.00	mcw 5m 95w (oil spots on top)	15.18

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, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64439

DST#: 3

ATTN: Ryan Seib

Test Start: 2018.12.07 @ 10:44:00

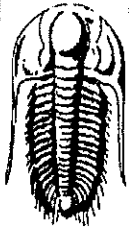
Tool Information

Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 bbl	Tool Weight: 2500.00 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: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4036.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4010.00	
Shut In Tool	5.00		Fluid	4015.00	
Hydraulic tool	5.00			4020.00	
Jars	5.00			4025.00	
Safety Joint	2.00			4027.00	
Packer	5.00		Inside	4032.00	27.00 Bottom Of Top Packer
Packer	4.00			4036.00	
Stubb	1.00			4037.00	
Recorder	0.00	8522	Inside	4037.00	
Recorder	0.00	8319	Outside	4037.00	
Perforations	27.00			4064.00	
Change Over Sub	1.00			4065.00	
Drill Pipe	31.00			4096.00	
Change Over Sub	1.00			4097.00	
Bullnose	3.00			4100.00	64.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

18-14-35w Logan,KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64439

DST#: 3

ATTN: Ryan Seib

Test Start: 2018.12.07 @ 10:44:00

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: 52000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.37 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7700.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1200.00	mcw 5m 95w (oil spots on top)	15.184

Total Length: 1200.00 ft Total Volume: 15.184 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW is .182 @ 55 = 52000ppm

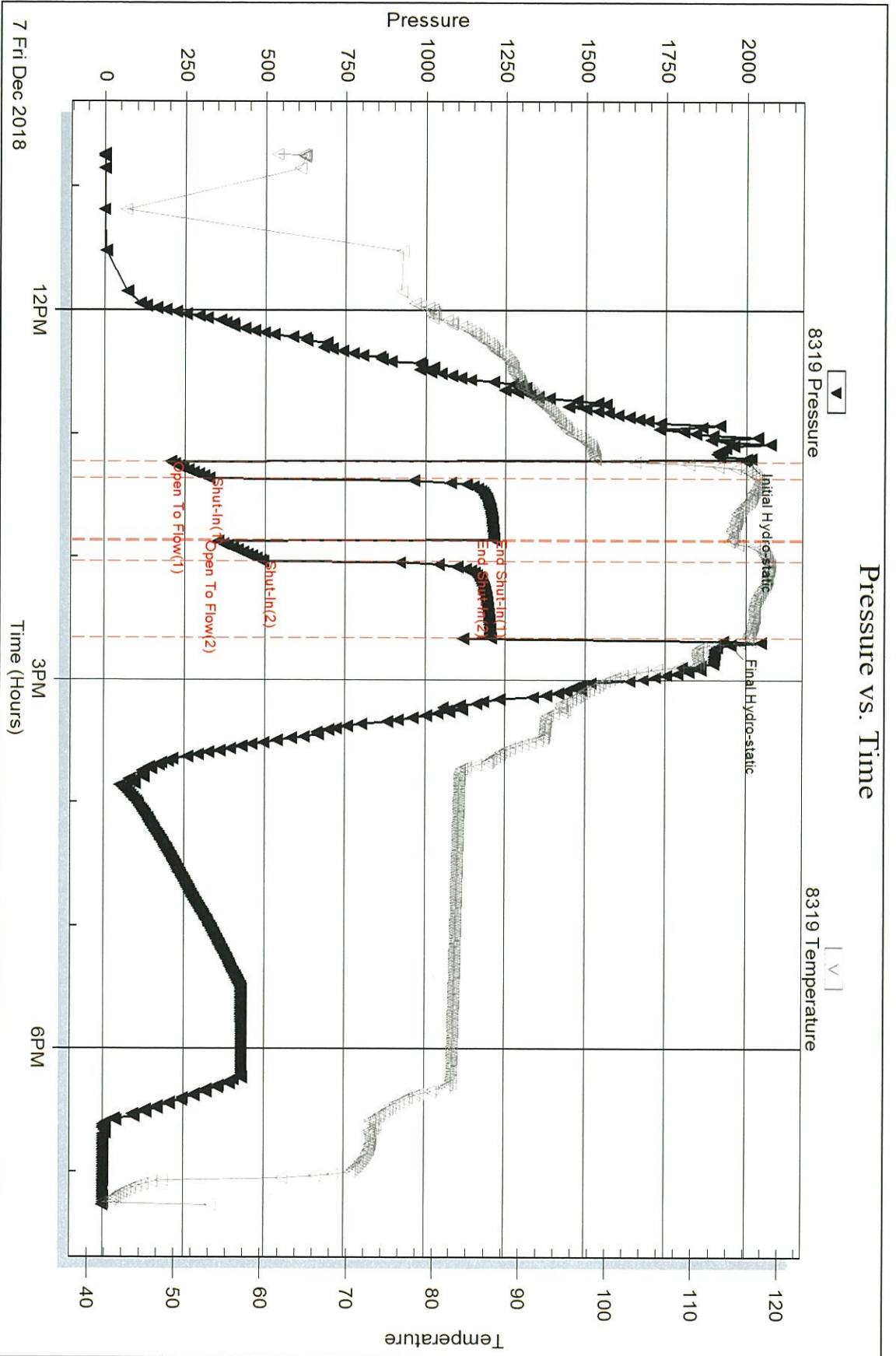
Serial #: 8319

Outside Palomino Petroleum, Inc.

Hillery #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64439

Printed: 2018.12.13 @ 11:51:18

Serial #: 8522

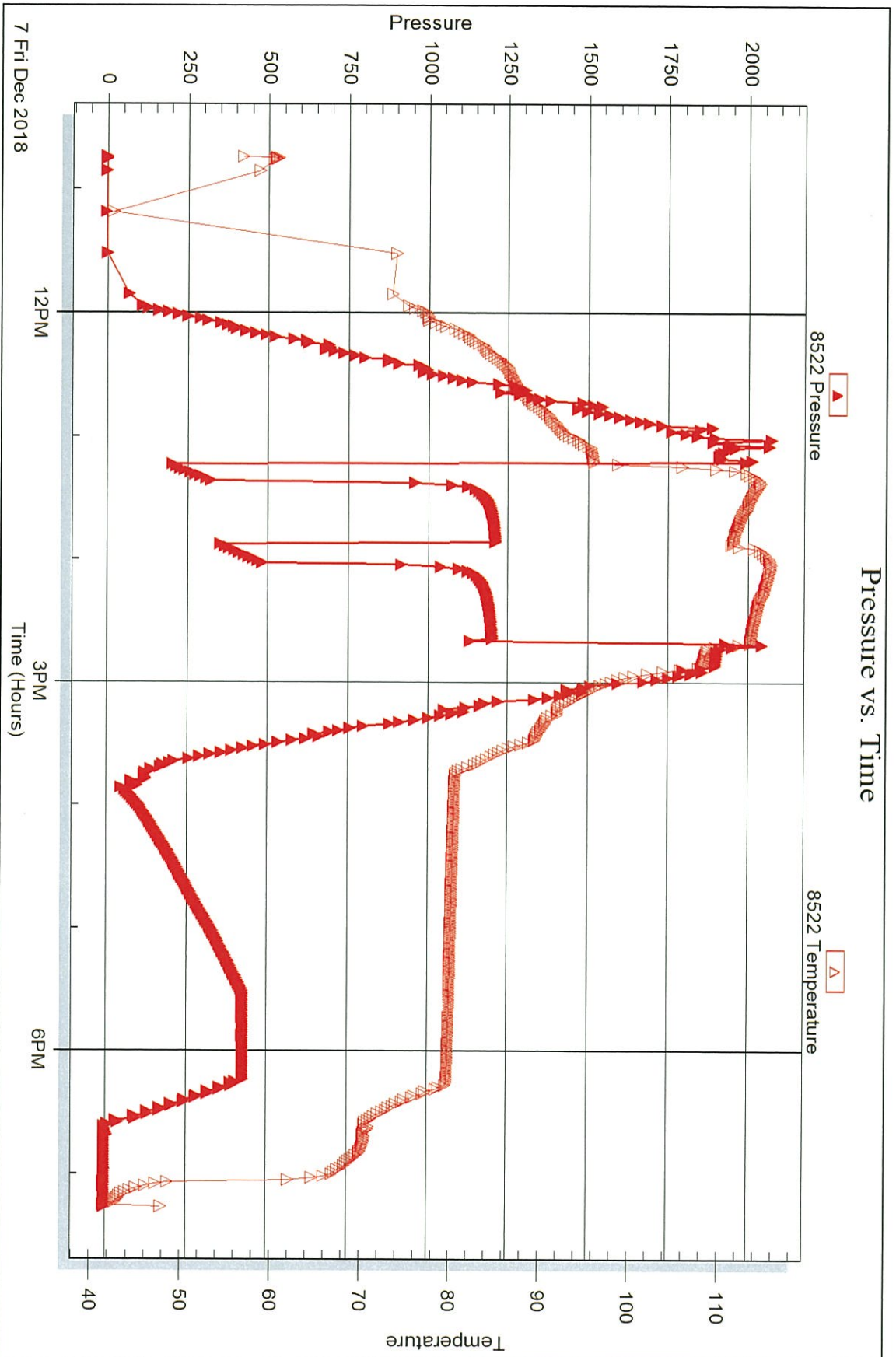
Inside

Palomino Petroleum, Inc.

Hilly #1

DST Test Number: 3

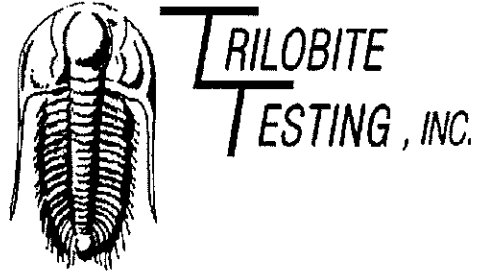
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64439

Printed: 2018.12.13 @ 11:51:18



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

Hillery #1

18-14-35w Logan,KS

Start Date: 2018.12.08 @ 02:56:00

End Date: 2018.12.08 @ 10:06:30

Job Ticket #: 64440 DST #: 4

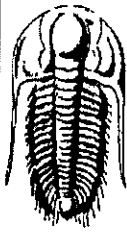
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2018.12.13 @ 11:50:36

Palomino Petroleum, Inc. 18-14-35w Logan,KS Hillery #1 DST # 4 LKC D - F 2018.12.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64440

DST#: 4

ATTN: Ryan Seib

Test Start: 2018.12.08 @ 02:56:00

GENERAL INFORMATION:

Formation: LKC D - F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:05:45

Time Test Ended: 10:06:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4090.00 ft (KB) To 4140.00 ft (KB) (TVD)

Total Depth: 4140.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3203.00 ft (KB)

3193.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 148.01 psig @ 4091.00 ft (KB)

Start Date: 2018.12.08

End Date:

2018.12.08

Start Time: 02:56:05

End Time:

10:06:29

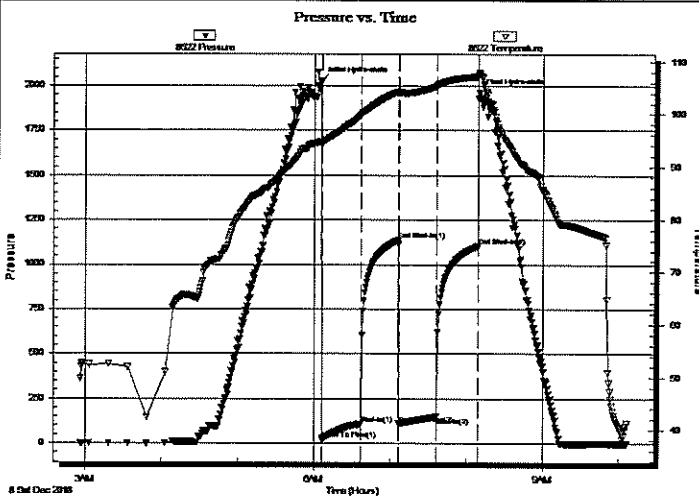
Capacity: 8000.00 psig

Last Calib.: 2018.12.08

Time On Btm: 2018.12.08 @ 06:05:30

Time Off Btm: 2018.12.08 @ 08:09:45

TEST COMMENT: 30- IF: BOB @ 30 min.
30- ISI: No return.
30- FF: 8" blow.
30- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.17	94.71	Initial Hydro-static
1	21.89	94.10	Open To Flow (1)
31	107.49	99.88	Shut-In(1)
61	1135.31	104.24	End Shut-In(1)
61	110.19	104.01	Open To Flow (2)
91	148.01	105.38	Shut-In(2)
124	1103.82	107.17	End Shut-In(2)
125	1963.62	107.99	Final Hydro-static

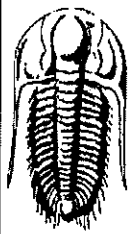
Recovery

Length (ft)	Description	Volume (bbl)
280.00	mcw 15m 85w (oil spots)	2.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
Newton, KS 67114

Hillery #1

Job Ticket: 64440

DST#: 4

ATTN: Ryan Seib

Test Start: 2018.12.08 @ 02:56:00

GENERAL INFORMATION:

Formation: LKC D - F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:05:45

Time Test Ended: 10:06:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4090.00 ft (KB) To 4140.00 ft (KB) (TVD)

Total Depth: 4140.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3203.00 ft (KB)

3193.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 4091.00 ft (KB)

Start Date: 2018.12.08

End Date: 2018.12.08

Capacity: 8000.00 psig

Last Calib.: 2018.12.08

Start Time: 02:56:05

End Time: 10:06:29

Time On Btm:

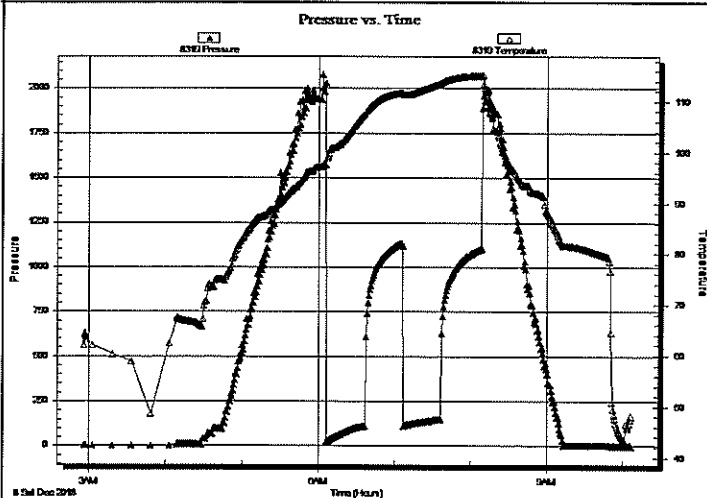
Time Off Btm:

TEST COMMENT: 30- IF: BOB @ 30 min.

30- IS: No return.

30- FF: 8" blow.

30- FS: No return.



PRESSURE SUMMARY

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

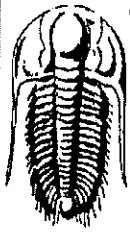
Recovery

Length (ft)	Description	Volume (bbl)
280.00	mcw 15m 85w (oil spots)	2.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64440

DST#: 4

ATTN: Ryan Seib

Test Start: 2018.12.08 @ 02:56:00

Tool Information

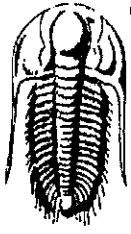
Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4090.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4064.00	
Shut In Tool	5.00		Fluid	4069.00	
Hydraulic tool	5.00			4074.00	
Jars	5.00			4079.00	
Safety Joint	2.00			4081.00	
Packer	5.00		Inside	4086.00	27.00 Bottom Of Top Packer
Packer	4.00			4090.00	
Stubb	1.00			4091.00	
Recorder	0.00	8522	Inside	4091.00	
Recorder	0.00	8319	Outside	4091.00	
Perforations	13.00			4104.00	
Change Over Sub	1.00			4105.00	
Drill Pipe	31.00			4136.00	
Change Over Sub	1.00			4137.00	
Bullnose	3.00			4140.00	50.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

18-14-35w Logan, KS
Hillery #1
Job Ticket: 64440 DST#: 4
Test Start: 2018.12.08 @ 02:56:00

Mud and Cushion Information

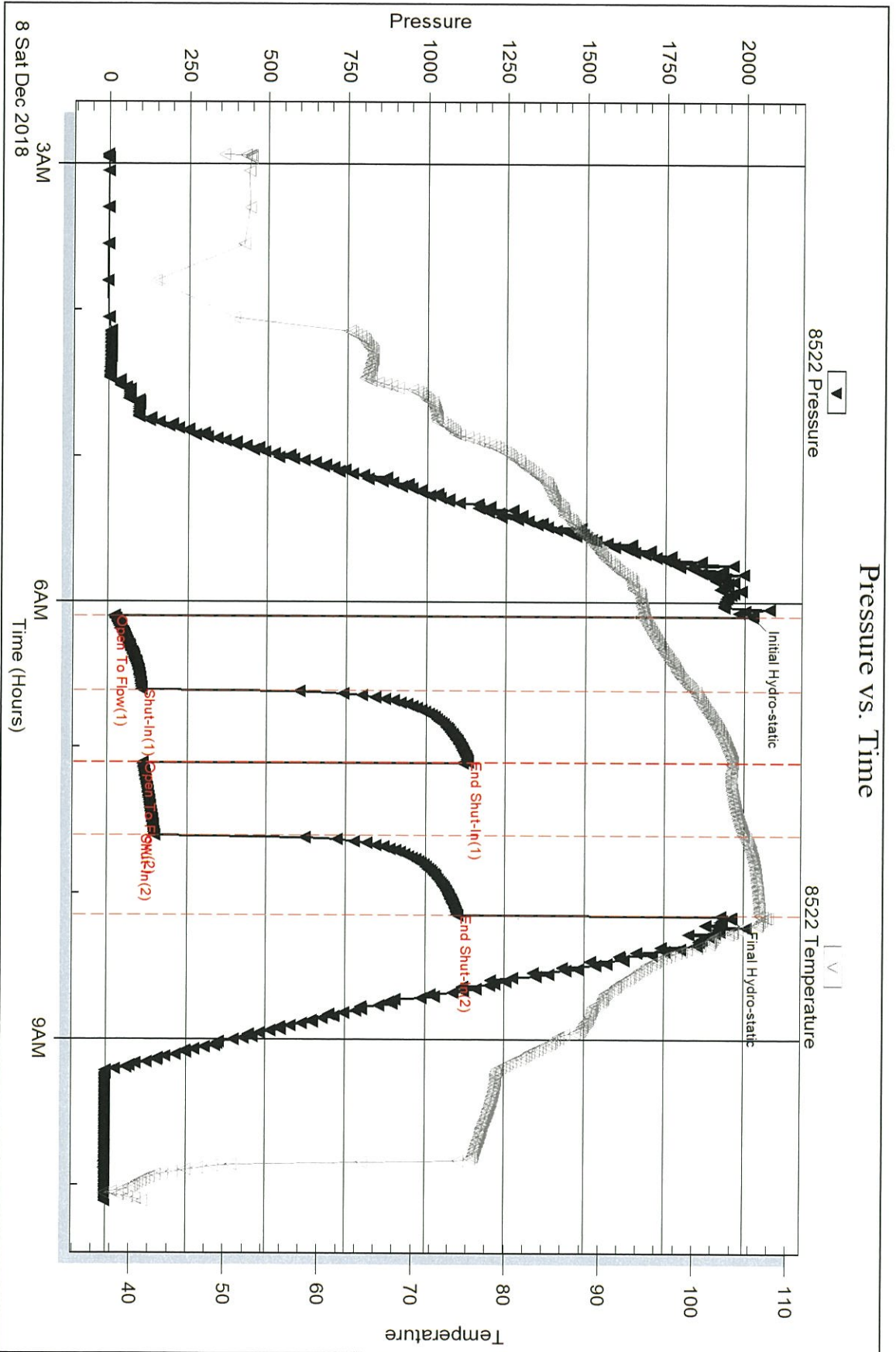
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 60000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7700.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	mcw 15m 85w (oil spots)	2.279

Total Length: 280.00 ft Total Volume: 2.279 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .170 @ 53f = 60000ppm

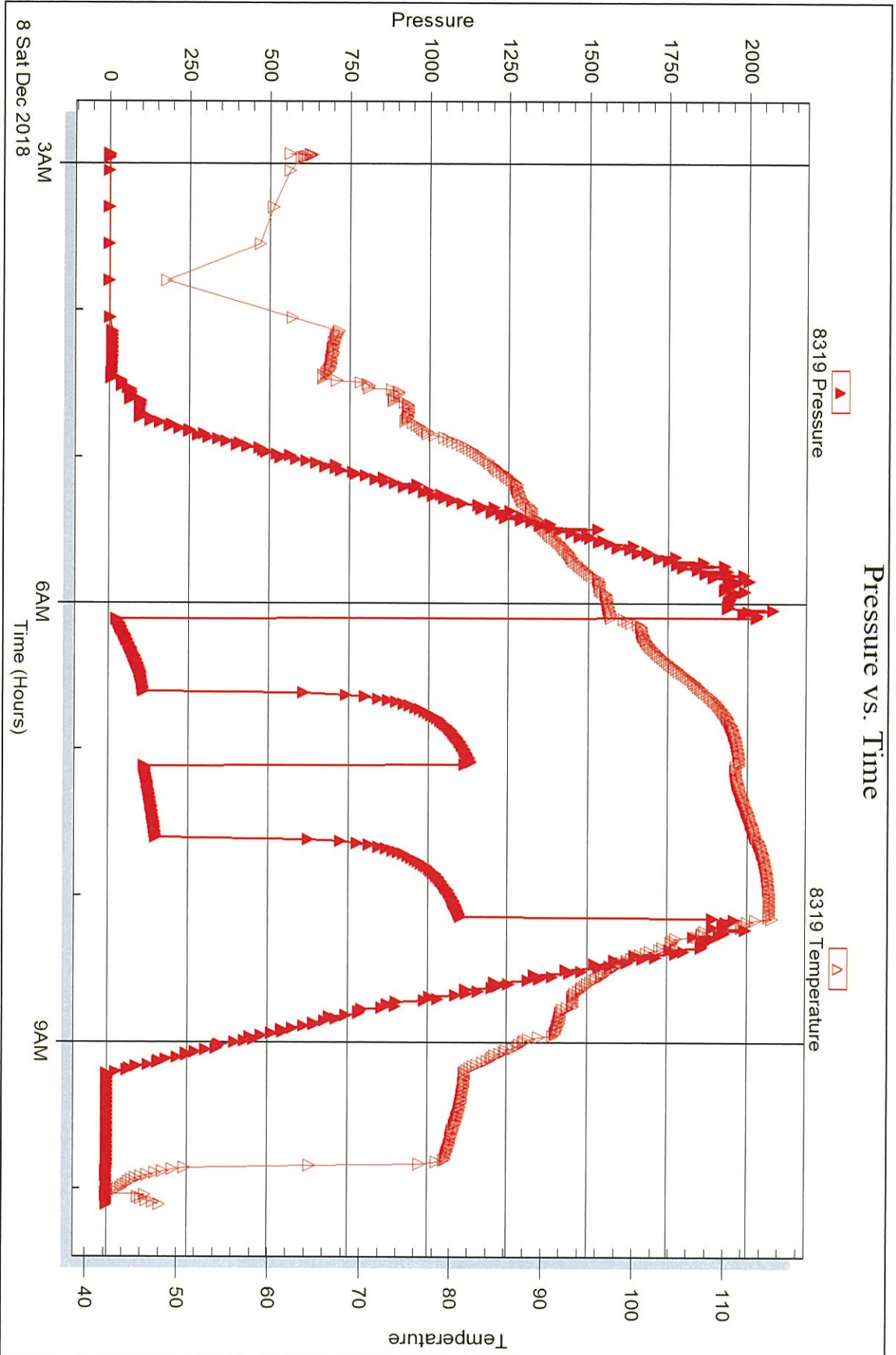


Serial #: 8319

Outside Palomino Petroleum, Inc.

Hillery #1

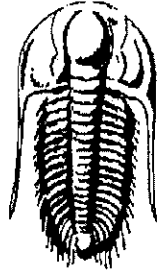
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 64440

Printed: 2018.12.13 @ 11:50:36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

Hillery #1

18-14-35w Logan,KS

Start Date: 2018.12.09 @ 00:53:00

End Date: 2018.12.09 @ 07:45:30

Job Ticket #: 64441 DST #: 5

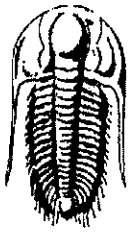
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2018.12.13 @ 11:49:20

Palomino Petroleum, Inc. 18-14-35w Logan,KS Hillery #1 DST # 5 LKC H - J 2018.12.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64441

DST#: 5

ATTN: Ryan Seib

Test Start: 2018.12.09 @ 00:53:00

GENERAL INFORMATION:

Formation: LKC H - J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:38:45

Time Test Ended: 07:45:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4170.00 ft (KB) To 4265.00 ft (KB) (TVD)

Total Depth: 4265.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3203.00 ft (KB)

3193.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 397.75 psig @ 4171.00 ft (KB)

Start Date: 2018.12.09

End Date:

2018.12.09

Start Time: 00:53:05

End Time:

07:45:29

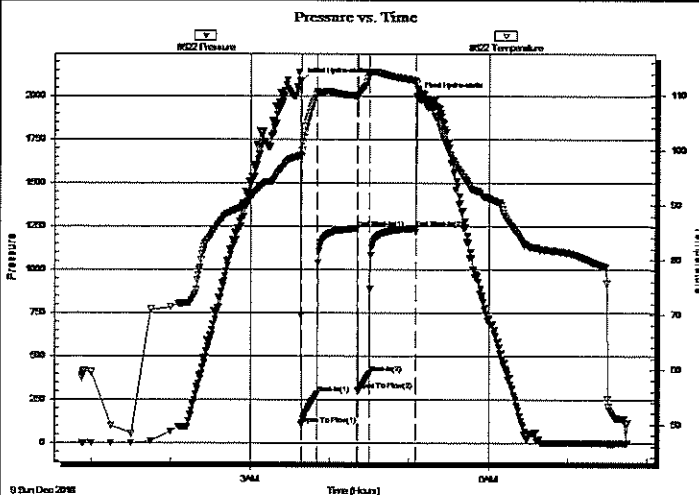
Capacity: 8000.00 psig

Last Calib.: 2018.12.09

Time On Btm: 2018.12.09 @ 03:38:00

Time Off Btm: 2018.12.09 @ 05:06:00

TEST COMMENT: 12- IF: BOB @ 2 min. Built to 43".
30- IS: No return.
10- FF: BOB @ 2 1/2 min. Built to 31"
30- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2084.01	99.10	Initial Hydro-static
1	105.11	98.91	Open To Flow (1)
13	281.29	110.66	Shut-In(1)
43	1240.25	109.89	End Shut-In(1)
43	303.62	109.76	Open To Flow (2)
52	397.75	113.89	Shut-In(2)
87	1238.92	112.73	End Shut-In(2)
88	2001.68	111.31	Final Hydro-static

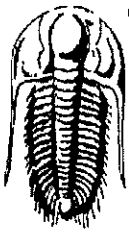
Recovery

Length (ft)	Description	Volume (bbl)
680.00	mcw 5m 95w (oil spots)	7.89
150.00	omcw 1o 39m 60w	2.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-14-35w Logan, KS
Hillery #1
 Job Ticket: 64441 **DST#: 5**
 Test Start: 2018.12.09 @ 00:53:00

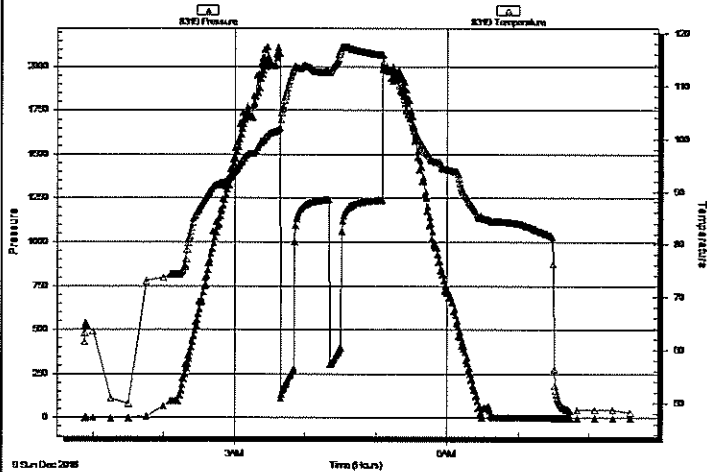
GENERAL INFORMATION:

Formation: LKC H - J
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:38:45
 Time Test Ended: 07:45:30
 Interval: 4170.00 ft (KB) To 4265.00 ft (KB) (TVD)
 Total Depth: 4265.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Reference Elevations: 3203.00 ft (KB)
 3193.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8319 **Outside**
 Press@RunDepth: psig @ 4171.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.12.09 End Date: 2018.12.09 Last Calib.: 2018.12.09
 Start Time: 00:53:05 End Time: 08:45:07 Time On Btm: Time Off Btm:

TEST COMMENT: 12- IF: BOB @ 2 min. Built to 43".
 30- IS: No return.
 10- FF: BOB @ 2 1/2 min. Built to 31"
 30- FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

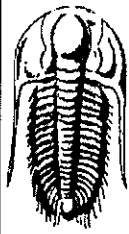
Recovery

Length (ft)	Description	Volume (bbl)
680.00	mcw 5m 95w (oil spots)	7.89
150.00	omcw 1o 39m 60w	2.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
Newton, KS 67114

Hillery #1

Job Ticket: 64441

DST#: 5

ATTN: Ryan Seib

Test Start: 2018.12.09 @ 00:53:00

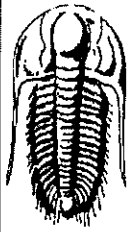
Tool Information

Drill Pipe:	Length: 3984.00 ft	Diameter: 3.80 inches	Volume: 55.89 bbl	Tool Weight: 2500.00 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: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4170.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4144.00	
Shut In Tool	5.00		Fluid	4149.00	
Hydraulic tool	5.00			4154.00	
Jars	5.00			4159.00	
Safety Joint	2.00			4161.00	
Packer	5.00		Inside	4166.00	27.00 Bottom Of Top Packer
Packer	4.00			4170.00	
Stubb	1.00			4171.00	
Recorder	0.00	8522	Inside	4171.00	
Recorder	0.00	8319	Outside	4171.00	
Perforations	26.00			4197.00	
Change Over Sub	1.00			4198.00	
Drill Pipe	63.00			4261.00	
Change Over Sub	1.00			4262.00	
Bullnose	3.00			4265.00	95.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64441

DST#: 5

ATTN: Ryan Seib

Test Start: 2018.12.09 @ 00:53:00

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:

63000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
680.00	mcw 5m 95w (oil spots)	7.890
150.00	omcw 1o 39m 60w	2.104

Total Length: 830.00 ft Total Volume: 9.994 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .157 @ 55F = 63000ppm

Serial #: 8522

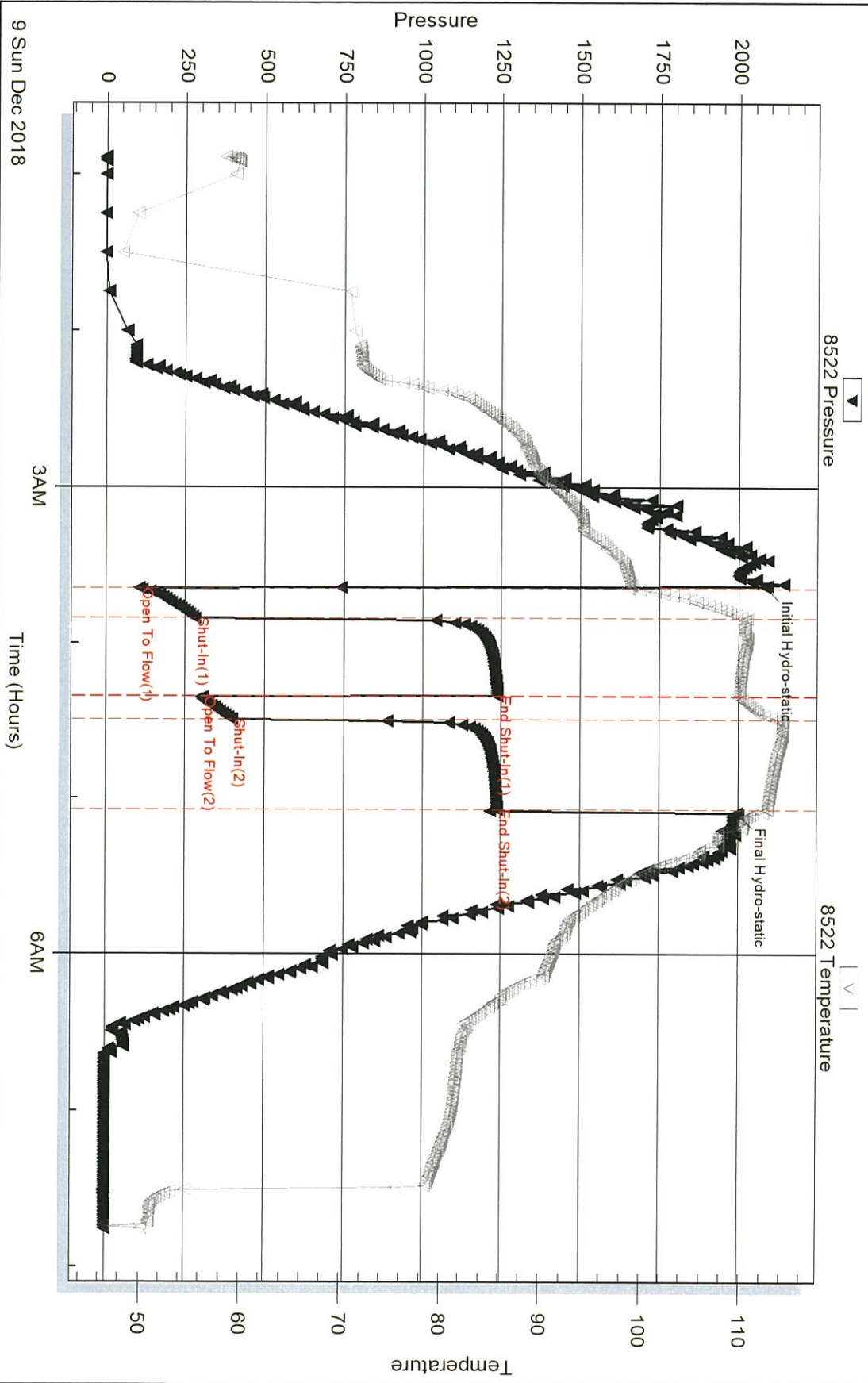
Inside

Palomino Petroleum, Inc.

Hillery #1

DST Test Number: 5

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 64441

Printed: 2018:12:13 @ 11:49:21

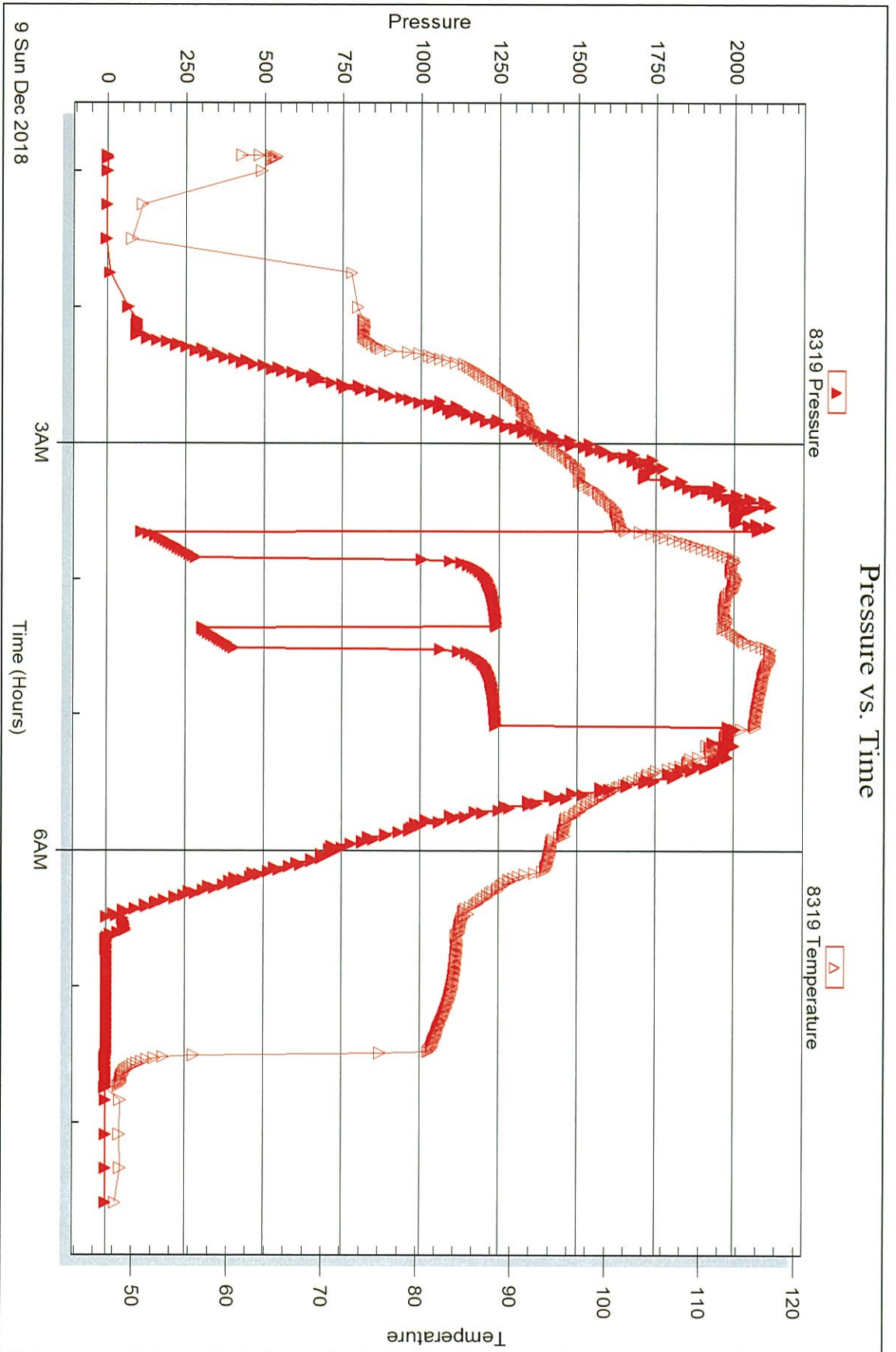
Serial #: 8319

Outside

Palomino Petroleum, Inc.

Hillery #1

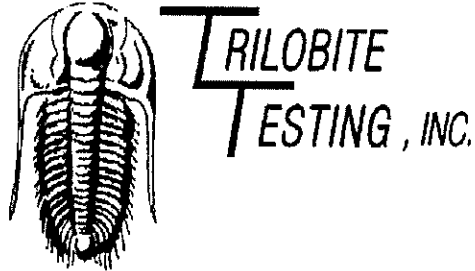
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 64441

Printed: 2018:12:13 @ 11:49:21



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St
Newton, KS 67114

ATTN: Ryan Seib

Hillery #1

18-14-35w Logan,KS

Start Date: 2018.12.10 @ 07:53:00

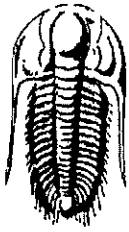
End Date: 2018.12.10 @ 16:04:00

Job Ticket #: 64442 DST #: 6

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

Printed: 2018.12.13 @ 11:48:55

Palomino Petroleum, Inc. 18-14-35w Logan,KS Hillery #1 DST # 6 Marmaton 2018.12.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

18-14-35w Logan, KS

Hillery #1

Job Ticket: 64442

DST#: 6

Test Start: 2018.12.10 @ 07:53:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:20:00

Time Test Ended: 16:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4370.00 ft (KB) To 4488.00 ft (KB) (TVD)

Total Depth: 3753.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3203.00 ft (KB)

3193.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8319

Outside

Press@RunDepth: 508.93 psig @ 4371.00 ft (KB)

Start Date: 2018.12.10

End Date: 2018.12.10

Start Time: 07:53:05

End Time: 16:03:59

Capacity: 8000.00 psig

Last Calib.: 2018.12.10

Time On Btm: 2018.12.10 @ 10:18:15

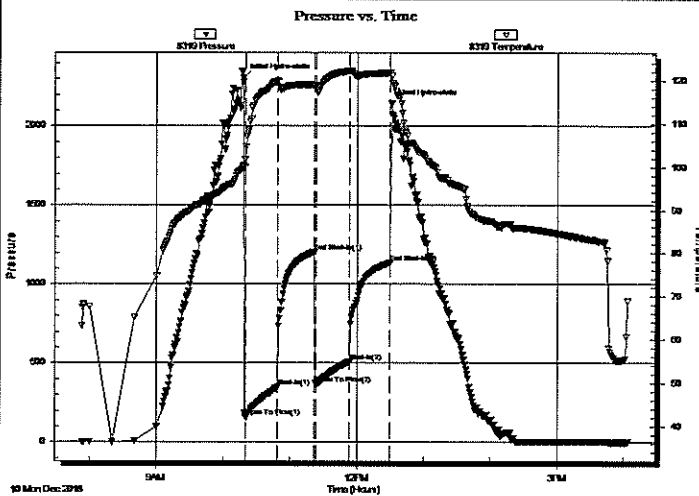
Time Off Btm: 2018.12.10 @ 12:30:45

TEST COMMENT: 30- IF: BOB @ 2 1/2" built to 80".

30- IS: 1 1/2" return.

30- FF: BOB @ 2 min. built to 57"

30- FS: 1/2" return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.22	100.02	Initial Hydro-static
2	159.02	101.62	Open To Flow (1)
31	347.93	119.93	Shut-In(1)
64	1204.60	118.82	End Shut-In(1)
65	366.55	118.04	Open To Flow (2)
95	508.93	122.09	Shut-In(2)
132	1137.99	121.66	End Shut-In(2)
133	2140.28	120.89	Final Hydro-static

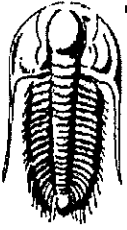
Recovery

Length (ft)	Description	Volume (bbl)
300.00	gmw co 30g 5m 25w 40o	2.56
300.00	gmw co 40g 5m 20w 35o	4.21
640.00	gmw co 40g 10m 10w 40o	8.98
0.00	280' 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, Inc.

18-14-35w Logan,KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64442 **DST#: 6**

ATTN: Ryan Seib

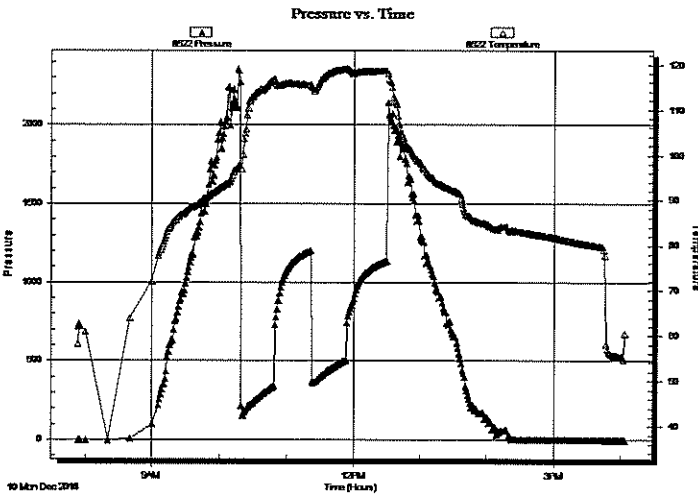
Test Start: 2018.12.10 @ 07:53:00

GENERAL INFORMATION:

Formation: Marmaton		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Bradley Walter
Time Tool Opened: 10:20:00		Unit No: 78
Time Test Ended: 16:04:00		Reference Elevations: 3203.00 ft (KB)
Interval: 4370.00 ft (KB) To 4488.00 ft (KB) (TVD)		3193.00 ft (CF)
Total Depth: 3753.00 ft (KB) (TVD)		KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good		

Serial #: 8522 Inside					
Press@RunDepth: psig @ 4371.00 ft (KB)		Capacity:		8000.00 psig	
Start Date: 2018.12.10 End Date: 2018.12.10		Last Calib.:		2018.12.10	
Start Time: 07:53:05 End Time: 16:03:59		Time On Btm:			
		Time Off Btm:			

TEST COMMENT: 30- IF: BOB @ 2 1/2" built to 80".
30- IS: 1 1/2" return.
30- FF: BOB @ 2 min. built to 57"
30- FS: 1/2" return.



PRESSURE SUMMARY

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

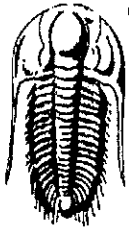
Recovery

Length (ft)	Description	Volume (bbl)
300.00	gmw co 30g 5m 25w 40o	2.56
300.00	gmw co 40g 5m 20w 35o	4.21
640.00	gmw co 40g 10m 10w 40o	8.98
0.00	280' 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, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64442

DST#: 6

ATTN: Ryan Seib

Test Start: 2018.12.10 @ 07:53:00

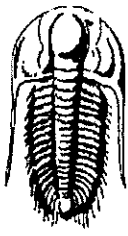
Tool Information

Drill Pipe:	Length: 4174.00 ft	Diameter: 3.80 inches	Volume: 58.55 bbl	Tool Weight: 2500.00 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: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 59.44 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4370.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	118.00 ft			
Tool Length:	145.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4344.00	
Shut In Tool	5.00		Fluid	4349.00	
Hydraulic tool	5.00			4354.00	
Jars	5.00			4359.00	
Safety Joint	2.00			4361.00	
Packer	5.00		Inside	4366.00	27.00 Bottom Of Top Packer
Packer	4.00			4370.00	
Stubb	1.00			4371.00	
Recorder	0.00	8522	Inside	4371.00	
Recorder	0.00	8319	Outside	4371.00	
Perforations	18.00			4389.00	
Change Over Sub	1.00			4390.00	
Drill Pipe	94.00			4484.00	
Change Over Sub	1.00			4485.00	
Bullnose	3.00			4488.00	118.00 Bottom Packers & Anchor

Total Tool Length: 145.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

18-14-35w Logan, KS

4924 SE 84th St
New ton, KS 67114

Hillery #1

Job Ticket: 64442

DST#: 6

ATTN: Ryan Seib

Test Start: 2018.12.10 @ 07:53:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in*

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
300.00	gmw co 30g 5m 25w 40o	2.559
300.00	gmw co 40g 5m 20w 35o	4.208
640.00	gmw co 40g 10m 10w 40o	8.978
0.00	280' GIP	0.000

Total Length: 1240.00 ft

Total Volume: 15.745 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

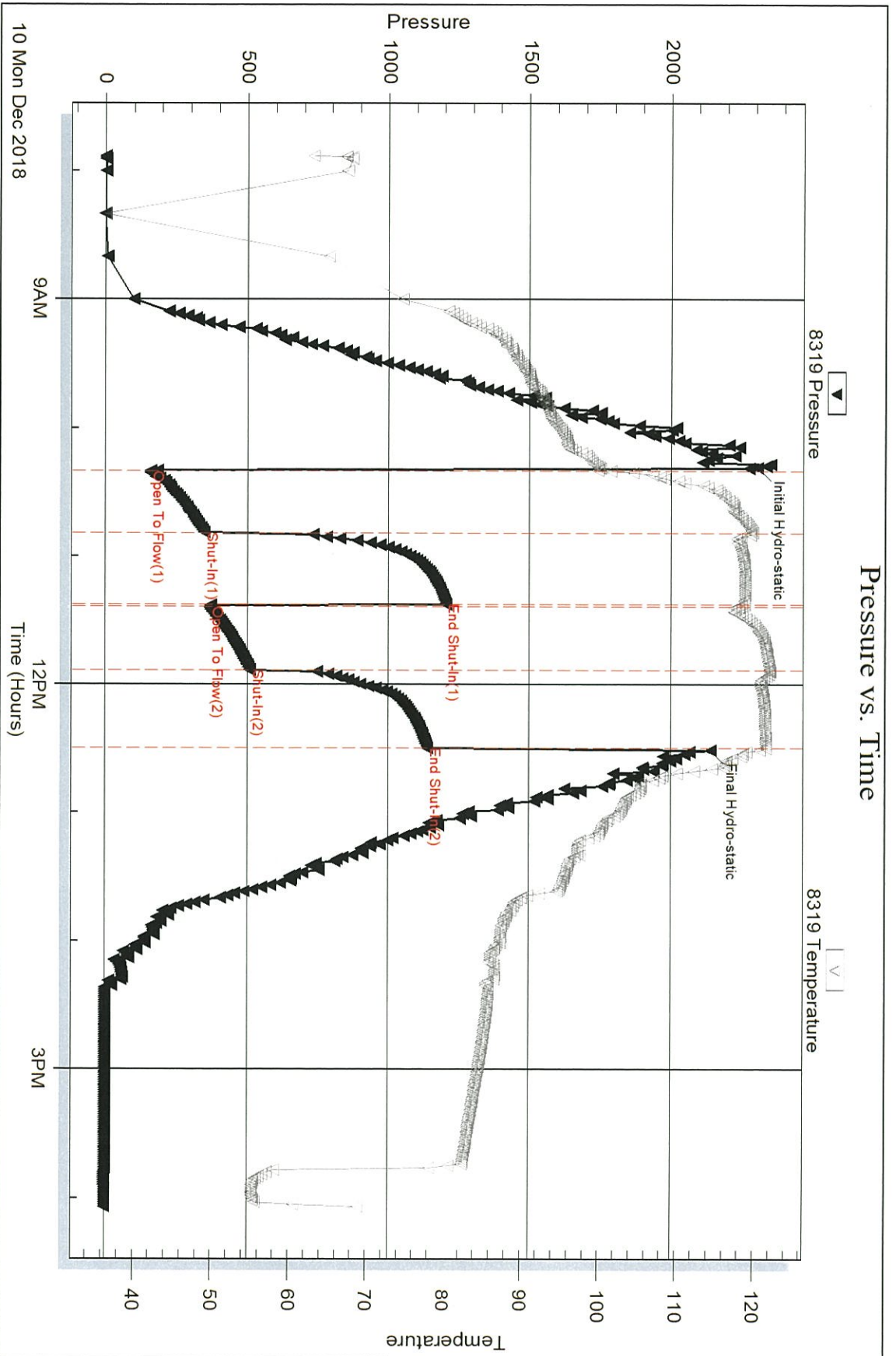
Outside

Palomino Petroleum, Inc.

Hillery #1

DST Test Number: 6

Pressure vs. Time



Tribotite Testing, Inc

Ref. No: 64442

Printed: 2018.12.13 @ 11:48:56

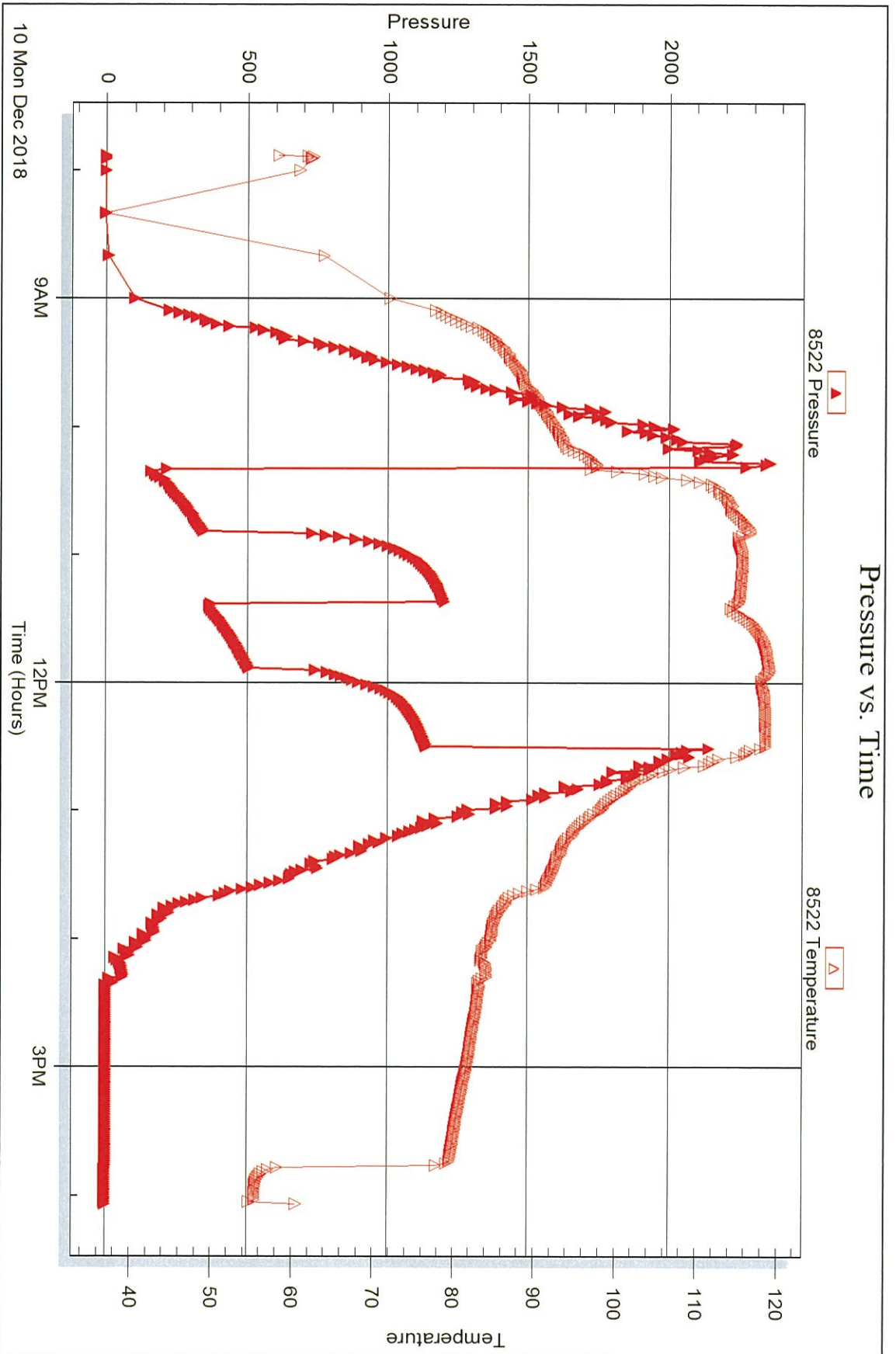
Serial #: 8522

Inside

Palomino Petroleum, Inc.

Hillery #1

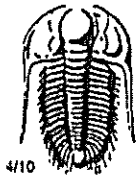
DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 64442

Printed: 2018.12.13 @ 11:48:56



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64437

Well Name & No. Hillery #1 Test No. 1 Date 12/05/2018
 Company Palomina Petroleum, Inc Elevation 3209 KB 3198 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WW #12
 Location: Sec. 18 Twp 14s Rge. 35w Co. Logan State Ks

Interval Tested 3696 - 3753 Zone Tested Topeka
 Anchor Length 57' Drill Pipe Run 3515 Mud Wt. 8.4
 Top Packer Depth 3691 Drill Collars Run 181 Vis 54
 Bottom Packer Depth 3696 Wt. Pipe Run Ø WL 8.8
 Total Depth 3753 Chlorides 5000 ppm System LCM 2#
 Blow Description TF BOB @ 6 min Built to 28"
ISI No Return
FF BOB @ 8 min Built to 26"
FSI No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>600</u>	<u>mcw</u>			<u>85</u>	<u>15</u>
	<u>oil spots in tool</u>				

Rec Total 600 BHT 106 Gravity — API RW 249 @ 50 °F Chlorides 41,000 ppm

(A) Initial Hydrostatic <u>1771</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1330</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1404</u>
(C) First Final Flow <u>182</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1635</u>
(D) Initial Shut-In <u>1002</u>	<input checked="" type="checkbox"/> Circ Sub <u>116</u>	T-Pulled <u>1835</u>
(E) Second Initial Flow <u>183</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2055</u>
(F) Second Final Flow <u>282</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT 116</u>	Comments
(G) Final Shut-In <u>980</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1756</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1741</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
Final Shut-In <u>30</u>	Sub Total <u>1741</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64438

Well Name & No. Hillery #1 Test No. 2 Date 12/06/2018
 Company Palomino Petroleum, Inc Elevation 3202 KB 3192 GL
 Address 4924 SE 84th St Newton, Ks 67114
 Co. Rep / Geo. Ryan Seb Rig WW #12
 Location: Sec. 16 Twp 14s Rge. 35w Co. Logan State Ks

Interval Tested 3887 3970 Zone Tested Topeka
 Anchor Length 63' Drill Pipe Run 3705 Mud Wt. 8.7
 Top Packer Depth 3882 Drill Collars Run 181 Vls 62
 Bottom Packer Depth 3887 Wt. Pipe Run 7 0' WL 8.8
 Total Depth 3970 Chlorides 7000 ppm System LCM 2 #
 Blow Description IF BOB @ 17 min. Built to 17"
ISI No return.
FF BOB @ 19 min Built to 19"
FST No return.

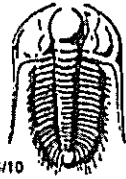
Rec	Feet of	%gas	%oil	%water	%mud
<u>420</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 420 BHT 106 Gravity ~~274~~ API RW 52.279 @ 52 °F Chlorides 35000 ppm

(A) Initial Hydrostatic <u>1908</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1205</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1240</u>
(C) First Final Flow <u>143</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1450</u>
(D) Initial Shut-In <u>1117</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>1650</u>
(E) Second Initial Flow <u>148</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1912</u>
(F) Second Final Flow <u>212</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT 116</u>	Comments
(G) Final Shut-In <u>1111</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1861</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1491</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1491</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64439

Well Name & No. Hillery #1 Test No. 3 Date 12/07/2018
 Company Palomine Petroleum, Inc Elevation 3208 KB 3198 GL
 Address 4924 SE 84th St Newton, Ks 67744
 Co. Rep / Geo. Ryan Seib Rig WW #12
 Location: Sec. 18 Twp 14s Rge. 35w Co. Logan State Ks

Interval Tested 4036-4100 Zone Tested LKC B+C
 Anchor Length 4031 64 Drill Pipe Run 3862 Mud Wt. 8.8
 Top Packer Depth 4036 4031 Drill Collars Run 181 Vls 61
 Bottom Packer Depth 4100 4036 Wt. Pipe Run Ø WL 10.4
 Total Depth 4100 Chlorides 7700 ppm System LCM 2#

Blow Description TF Bob @ 80 sec. halt to 55"
TSI No ret surface return. chd @ 20 min.
FF Bob @ 90 sec. halt to 51"
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1200</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	
	<u>oil spots on top</u>				

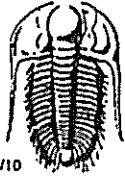
Rec Total 1200 BHT 116 Gravity — API RW 112 @ 55 °F Chlorides 52,000 ppm

(A) Initial Hydrostatic 2,000 Test 1150 T-On Location 1030
 (B) First Initial Flow 205 Jars 250 T-Started 1055
 (C) First Final Flow 3.25 Safety Joint 75 T-Open 1314
 (D) Initial Shut-In 1214 Circ Sub N/C T-Pulled 1434
 (E) Second Initial Flow 2.54 Hourly Standby _____ T-Out 1916
 (F) Second Final Flow 491 Mileage 116.2+ 116 Comments _____
 (G) Final Shut-In 1205 Sampler _____
 (H) Final Hydrostatic 1952 Straddle _____

Initial Open 10 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 10 Extra Copies _____
 Final Shut-In 30 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1591
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1591

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64440

Well Name & No. Hullery #1 Test No. 4 Date 12/08/2008
 Company Palomino Petroleum, Inc. Elevation 3203 KB 3192 GL
 Address 4974 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WW #12
 Location: Sec. K6 Twp 14s Rge. 35w Co. Logan State Ks

Interval Tested 4090 4140 Zone Tested LKC E-F
 Anchor Length 50 Drill Pipe Run 3899 Mud Wt. 88
 Top Packer Depth 4085 Drill Collars Run 181 Vis 50
 Bottom Packer Depth 4090 Wt. Pipe Run 0 WL 104
 Total Depth 4140 Chlorides 7200 ppm System LCM 2#

Blow Description IF Bob @ 30 min
ISI No return
FF Bob @ 8" blow
ISI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>280</u>	<u>MCW</u>			<u>85</u>	<u>15</u>
	<u>oil spots</u>				

Rec Total 280 BHT 107 Gravity — API RW 10 @ 53 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic 2025 Test 1150 T-On Location 0215
 (B) First Initial Flow 22 Jars 250 T-Started 0256
 (C) First Final Flow 107 Safety Joint 75 T-Open 0605
 (D) Initial Shut-In 1135 Circ Sub 4/1 T-Pulled 0805
 (E) Second Initial Flow 110 Hourly Standby _____ T-Out 1007
 (F) Second Final Flow 148 Mileage 16 25 116 Comments _____
 (G) Final Shut-In 1104 Sampler _____
 (H) Final Hydrostatic 1964 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1591
 Accessibility _____ MP/DST Disc'l _____
 Sub Total 1591

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64441

Well Name & No. Hillery #1 Test No. 5 Date 12/09/2018
 Company Palomino Petroleum Inc Elevation 3203 KB 3193 GL
 Address 4924 SE 84th St. Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WW #12
 Location: Sec. 10 Twp 14s Rge. 35w Co. Logan State KS

Interval Tested 4170 - 4265 Zone Tested LKC H-J
 Anchor Length 95' Drill Pipe Run 3984 Mud Wt. 8.8
 Top Packer Depth 4165 Drill Collars Run 181 Vis 52
 Bottom Packer Depth 4170 Wt. Pipe Run 0 WL 8.8
 Total Depth 4265 Chlorides 5000 ppm System LCM 2[#]

Blow Description IF BOB @ 2 min built to 43"
IS1 No return.
FF BOB @ 2 1/2 min. built to 31"
PST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>OMCW</u>	<u>1</u>	<u>60</u>	<u>.39</u>	
<u>650</u>	<u>MCW oil spots</u>		<u>95</u>	<u>5</u>	

Rec Total 830 BHT 117 Gravity — API RW .157 @ 55 °F Chlorides 63,000 ppm

(A) Initial Hydrostatic 2084 Test 1150 T-On Location 0020
 (B) First Initial Flow 105 Jars 250 T-Started 0052
 (C) First Final Flow 281 Safety Joint 75 T-Open 0338
 (D) Initial Shut-In 1240 Circ Sub _____ T-Pulled 0500
 (E) Second Initial Flow 304 Hourly Standby _____ T-Out 0749
 (F) Second Final Flow 398 Mileage 116 116 Comments _____
 (G) Final Shut-In 1239 Sampler _____
 (H) Final Hydrostatic 2002 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 12
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In 30
 Sub Total 0
 Total 1591
 MP/DST Disc't _____
 Sub Total 1591

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64442

Well Name & No. Hillery #1 Test No. 6 Date 12/10/2018
 Company Palomero Petroleum, Inc Elevation 3203 KB 3193 GL
 Address 4924 SF 84th St Newton, Ks 67114
 Co. Rep / Geo. Ryan Seib Rig WU #12
 Location: Sec. 18 Twp 14s Rge. 35w Co. Logan State Ks

Interval Tested 4370 - 4488 Zone Tested Namuton
 Anchor Length 118 Drill Pipe Run 4176 Mud Wt. 9.3
 Top Packer Depth 4365 Drill Collars Run 181 Vis 67
 Bottom Packer Depth 4370 Wt. Pipe Run Ø WL 9.6
 Total Depth 4488 Chlorides 7500 ppm System LCM 1 1/2 #
 Blow Description IF BOB @ 2 1/2 min. built to 50"
IST 1 1/2" return

EF BOB @ 2 min. built to 52"
FST 1/2" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>640</u>	<u>G.M.W.C.O</u>	<u>40</u>	<u>40</u>	<u>10</u>	<u>10</u>
<u>300</u>	<u>G.M.W.C.O</u>	<u>40</u>	<u>35</u>	<u>20</u>	<u>5</u>
<u>300</u>	<u>G.M.W.C.O</u>	<u>30</u>	<u>40</u>	<u>25</u>	<u>5</u>
<u> </u>	<u>280' GIP</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 1240 BHT 127 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2306</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0445</u>
(B) First Initial Flow <u>159</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0753</u>
(C) First Final Flow <u>378</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1024</u>
(D) Initial Shut-In <u>1205</u>	<input checked="" type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>1229</u>
(E) Second Initial Flow <u>367</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>1604</u>
(F) Second Final Flow <u>509</u>	<input checked="" type="checkbox"/> Mileage <u>11621 y2 232</u>	Comments <u> </u>
(G) Final Shut-In <u>1138</u>	<input type="checkbox"/> Sampler <u> </u>	<u>loaded tools 12/12 12:30</u>
(H) Final Hydrostatic <u>2140</u>	<input type="checkbox"/> Straddle <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>

<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u> </u>
<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
<input type="checkbox"/> Extra Recorder <u> </u>	Sub Total <u>0</u>
<input type="checkbox"/> Day Standby <u> </u>	Total <u>1957</u>
<input type="checkbox"/> Accessibility <u> </u>	MP/DST Disc't <u> </u>
Sub Total <u>1957</u>	

Approved By _____ Our Representative [Signature]

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Ryan Seib
Petroleum Geologist

110 S. Towhee

Empire City, KS 67530

(785) 762-5303

WELL LOG REPORT
WELL: HILLERY #1

OPERATOR Palomino Petroleum

WELL Hillery #1

FIELD _____

LOCATION 2280' FSL + 2031' FUL

SEC. 18 TWP. 14S RANG. 35W

COUNTY Logan STATE KS

DATE LOGGED W/O Drilling Rig #12
DATE 12/1/18 TIME 12/12/18
WELL 4896 DEPTH 4896
DEPTH 3400' RTD
DEPTH 3400' RTD
DEPTH 3400' RTD
DEPTH 3400' RTD
DEPTH 3400' Chemical
15-10.9-21577

ELEVATION

3203'

3194'

KB

CASING DEPTH

8 5/8" @

219'

5 1/2"

LOG INTERVALS

CNO, DFL,

Micro

Anhydrite	2543 (+660)	2547 (+655)
BAhydrite	2563 (+640)	2568 (+634)
Heeber	3958 (-755)	3962 (-759)
Lansing	4009 (-806)	4014 (-811)
Stark	4270 (-1067)	4272 (-1069)
OKC	4350 (-1147)	4355 (-1152)
Marmaton	4393 (-1190)	4395 (-1192)
Pawnee	4483 (-1280)	4478 (-1275)
Ft. Scott	4544 (-1341)	4541 (-1338)
Cherokee SL	4575 (-1372)	4577 (-1374)
Mississippian	4773 (-1570)	4774 (-1573)



3400

10

20

30

40

3400

10

20

30

40

6.9 m - 6.5 ft; for 100 ft; depth
 115

And v @ 3400

46 - 8.5

45 - 6.3

42 - 7.2

41 - 2.500

40 - 3#

6.9 m - 6.5 ft; for 100 ft; depth
 115



50

left arm - biceps, forearm x 1/5, hand, wrist, fingers x 1/5

- 60

- 70

- 80

left hand - biceps, forearm x 1/5, hand, wrist, fingers x 1/5

- 90

7500

- 10

left arm - biceps, forearm x 1/5, hand, wrist, fingers x 1/5

- 20

- 30

- 40

left arm - biceps, forearm x 1/5, hand, wrist, fingers x 1/5

50

- 60

- 70

left arm - biceps, forearm x 1/5, hand, wrist, fingers x 1/5

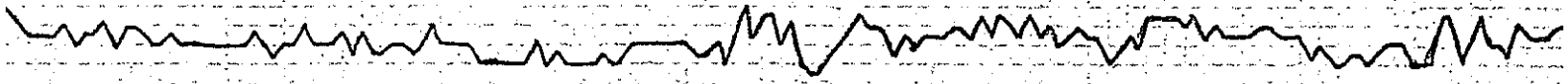
- 80

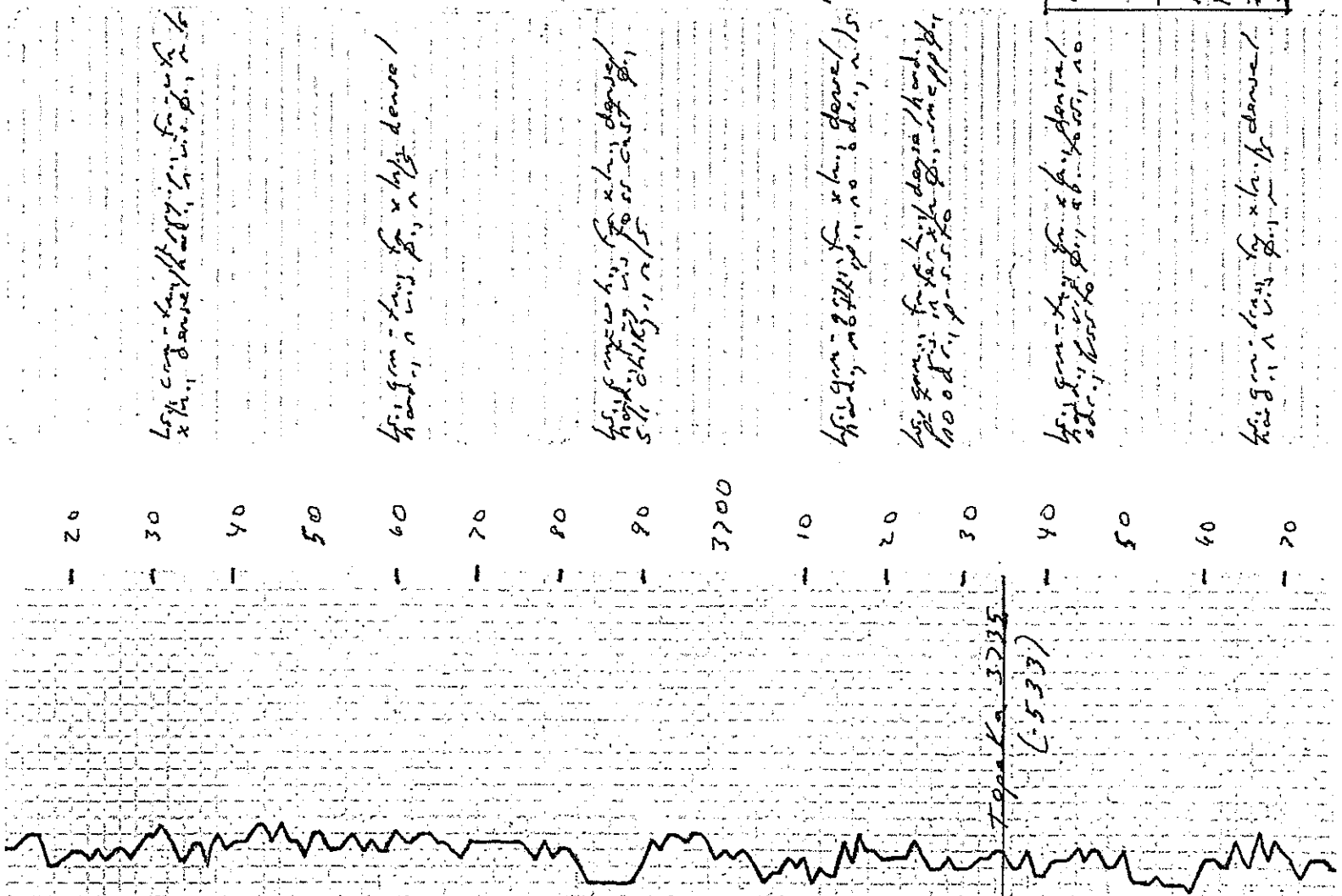
- 90

7600

- 10

left arm - biceps, forearm x 1/5, hand, wrist, fingers x 1/5





20
30
40
50
60
70
80
90
3700
10
20
30
40
50
60
70

log. con. - low / h. 2.5, 3.5, 4.5, 5.5, 6.5

log. con. - low / h. 2.5, 3.5, 4.5, 5.5, 6.5

log. con. - low / h. 2.5, 3.5, 4.5, 5.5, 6.5

log. con. - low / h. 2.5, 3.5, 4.5, 5.5, 6.5
 Mud @ 3717'
 wt. - 8.4
 vis. - 44
 UL - P.P
 CL - 5,000
 LCM - 2#

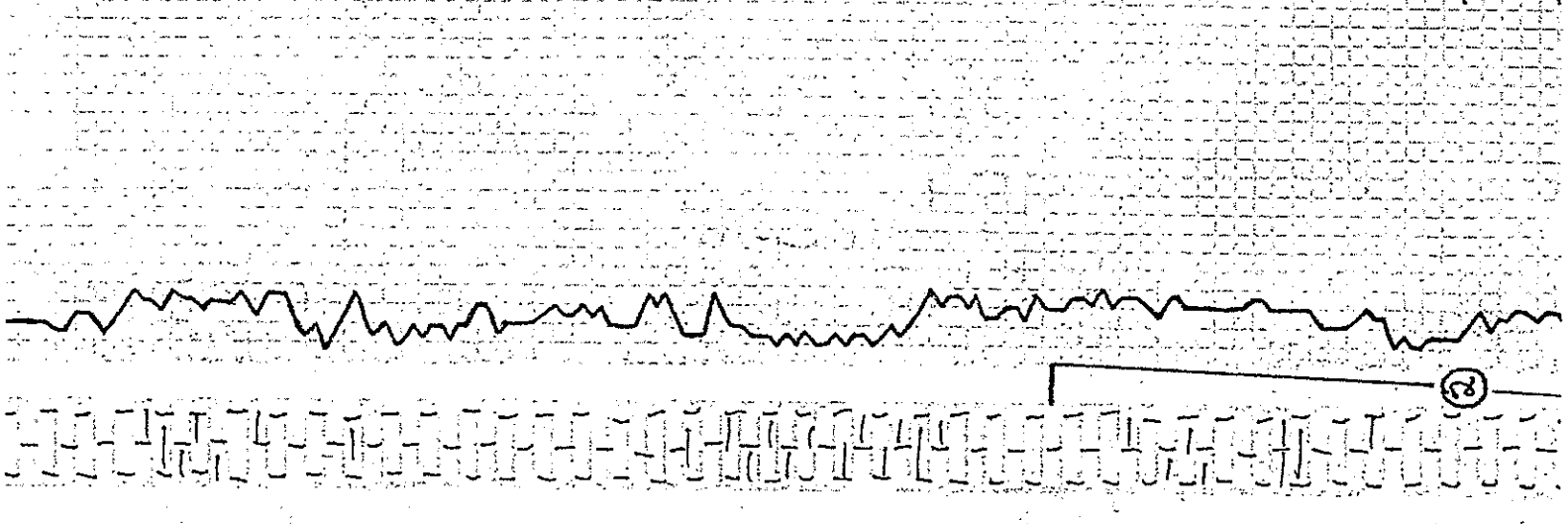
OST # 7 3696 - 3753'
 30-30-30-30
 Acc. 600' m.w. (8580, 1570 m)
 IF - 6.0.0.4" N. Return
 FF - D.D.A. - 8"
 HP - 1771# - 1756#
 FF - 25# 182# PFP - 183# - 202#
 TSP - 1007# PFP - 950#

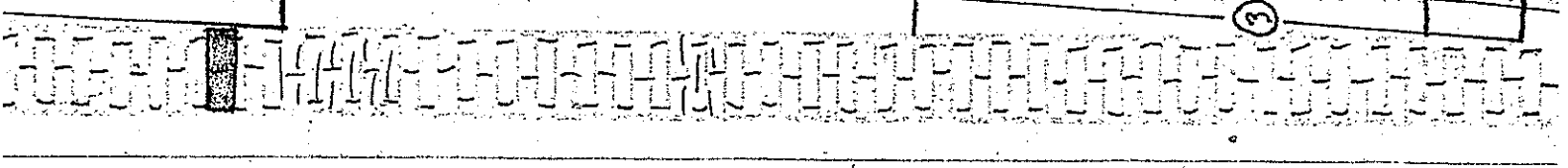
Top of 3735
 (-533)

①

80	
90	grey - tan, fine, silty, identical to 80, 1.0 v. 3.0, 1.0 v. 1.0
3800	sh, grey-red
10	
20	grey - tan, fine, silty, identical to 80, 1.0 v. 3.0, 1.0 v. 1.0, silty, identical, no odor, 1.0 v. 1.0
30	
40	
50	grey - tan, fine, silty, identical to 80, 1.0 v. 3.0, 1.0 v. 1.0
60	
70	sh, grey
80	grey - tan, fine, silty, identical to 80, 1.0 v. 3.0, 1.0 v. 1.0
90	grey - tan, fine, silty, identical to 80, 1.0 v. 3.0, 1.0 v. 1.0
3900	grey - tan, fine, silty, identical to 80, 1.0 v. 3.0, 1.0 v. 1.0, silty, identical, no odor, 1.0 v. 1.0
10	sh, grey-red
20	grey - tan, fine, silty, identical to 80, 1.0 v. 3.0, 1.0 v. 1.0
30	grey - tan, fine, silty, identical to 80, 1.0 v. 3.0, 1.0 v. 1.0
40	

OST # 2 3887' - 3970'
 Rec. 420' N.W. (80% J, 2070m)
 IF-0.0.4-17" N. Return
 FF-0.0.6-17"
 HP-1906#-1861#
 IFP-23#-143# PFP-148#-212#
 F.S.I. 2.111># P.F.P.-1111#





Herbar 3962
(-740)

Tacata 3279
(-777)

Laosang 4104
(-812)

50
60
70
80
90
4000
10
20
30
40
50
60
70
80
90
4100

Handwritten notes for each depth level:

- 50: *Handwritten notes*
- 60: *Handwritten notes*
- 70: *Handwritten notes*
- 80: *Handwritten notes*
- 90: *Handwritten notes*
- 4000: *Handwritten notes*
- 10: *Handwritten notes*
- 20: *Handwritten notes*
- 30: *Handwritten notes*
- 40: *Handwritten notes*
- 50: *Handwritten notes*
- 60: *Handwritten notes*
- 70: *Handwritten notes*
- 80: *Handwritten notes*
- 90: *Handwritten notes*
- 4100: *Handwritten notes*

DST # 3 4076-4100
10-30-10-20
Rec-1200' NW (850m, 5.2m)
FF-0.0.0.1 1/2" Surface Ashin
FF-0.0.0.1 1/2" N. L. L. L. L.
HP-2000#-1952#
FFP-200# 225# FFP-354#-481#
FFP-1214# FFP-1205#

M41 ✓ @ 4100

Wt. - 8.8
 Vis - 61
 Wt - 10.4
 Ch - 7, 300
 Lcm - I #

lg. comp. sh. in w. sh. & br.
 odr., 55%

10

Wt - 10.4
 Ch - 7, 300
 Lcm - I #

lg. comp. sh. in w. sh. & br.
 odr., 55%

20

Wt - 10.4
 Ch - 7, 300
 Lcm - I #

lg. comp. sh. in w. sh. & br.
 odr., 55%

30

Wt - 10.4
 Ch - 7, 300
 Lcm - I #

lg. comp. sh. in w. sh. & br.
 odr., 55%

40

Wt - 10.4
 Ch - 7, 300
 Lcm - I #

lg. comp. sh. in w. sh. & br.
 odr., 55%

50

Wt - 10.4
 Ch - 7, 300
 Lcm - I #

lg. comp. sh. in w. sh. & br.
 odr., 55%

60

Wt - 10.4
 Ch - 7, 300
 Lcm - I #

lg. comp. sh. in w. sh. & br.
 odr., 55%

70

Wt - 10.4
 Ch - 7, 300
 Lcm - I #

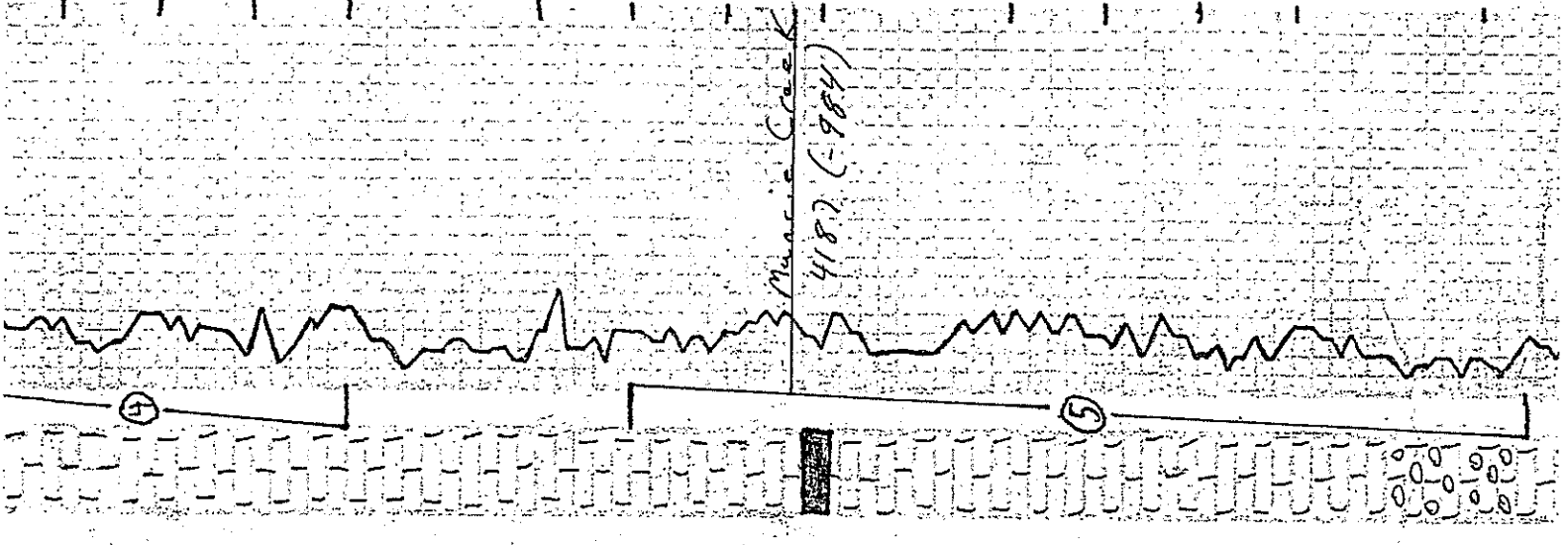
lg. comp. sh. in w. sh. & br.
 odr., 55%

80

Wt - 10.4
 Ch - 7, 300
 Lcm - I #

lg. comp. sh. in w. sh. & br.
 odr., 55%

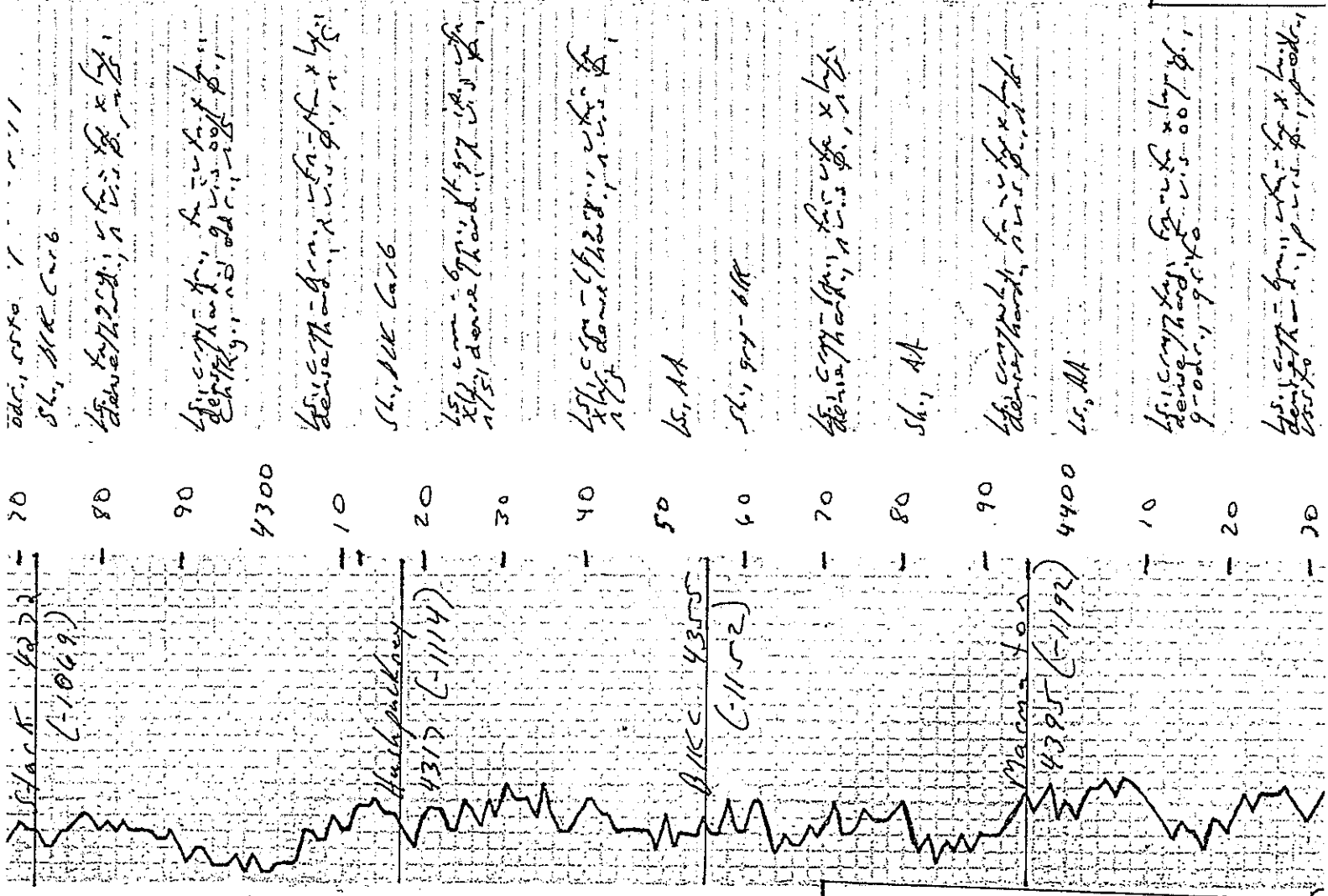
90



DST #4 4090' - 4140'
 Rec. 280' mcw (85%ow, 15%tan)
 FF-D.O.A.-30" P. Return
 FF-8"
 HP-2025 #1944 #
 FFA-22#107 # FFA-110 # -148 #
 FSA-1135 # FSA-1104 #

DST #5 4170' - 4265'
 Rec. 830' TF
 FF-D.O.A.-2" N. Return
 FF-D.O.A.-21/2"
 150' mcw (100, 60%ow, 39%tan)
 680' mcw (95%ow, 5%tan)
 HP-2084 #, 2002 #
 FFA-105 #, 281 # FFA-304 #, 308 #
 FSA-1240 # FSA-1239 #

Mud ✓ @ 4265
 wt. - 8.7
 vis - 64
 wt. - 11.2
 chl - 7,000
 cen - I #

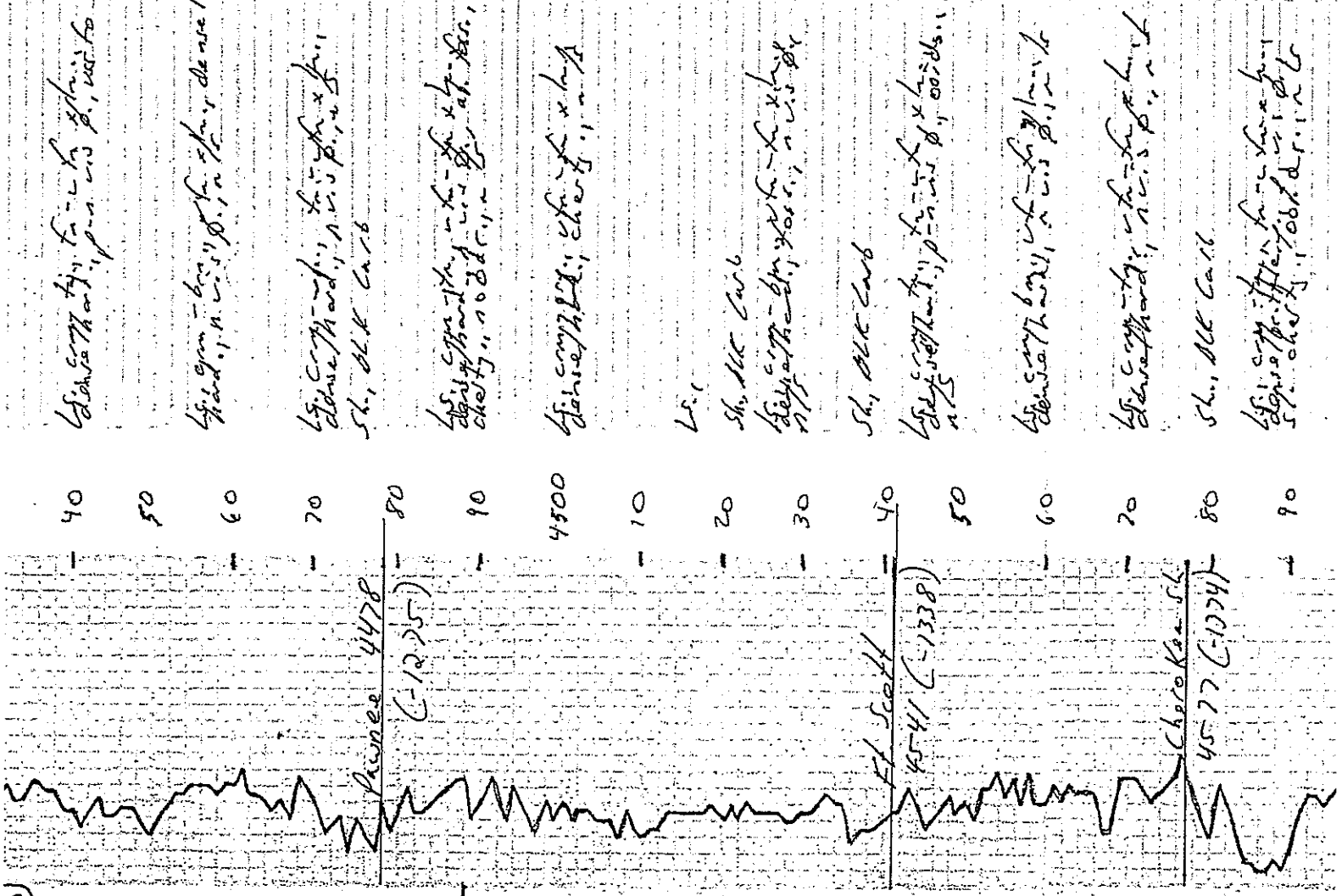


70	blk, crst	1	11
80	sh, blk carb		
90	ls, congl, sh, fine gr, x-bed		
4300	ls, congl, sh, fine gr, x-bed		
10	ls, congl, sh, fine gr, x-bed		
20	sh, blk carb		
30	ls, congl, sh, fine gr, x-bed		
40	ls, congl, sh, fine gr, x-bed		
50	ls, AT		
60	sh, gr, blk		
70	ls, congl, sh, fine gr, x-bed		
80	sh, AT		
90	ls, congl, sh, fine gr, x-bed		
4400	ls, AT		
10	ls, congl, sh, fine gr, x-bed		
20	ls, congl, sh, fine gr, x-bed		
30	ls, congl, sh, fine gr, x-bed		

DST # 6 4370' - 4488'
 Rec. 1240' TF
 FF - 0.0.0.2 1/2" FSI - 11 1/2"
 FF - 0.0.0.2 1/2" FSI - 1/2"

(6)

640 gm wco (4070g, 40700, 10700, 10700)
 300 gm wco (4070g, 35700, 20700, 35700)
 300 gm wco (3070g, 40700, 25700, 35700)
 HP-2306 # 2146 #
 IFP-159 # 348 # FF0-367 5509 #
 FSEF-1205 # FSEF-1138 #

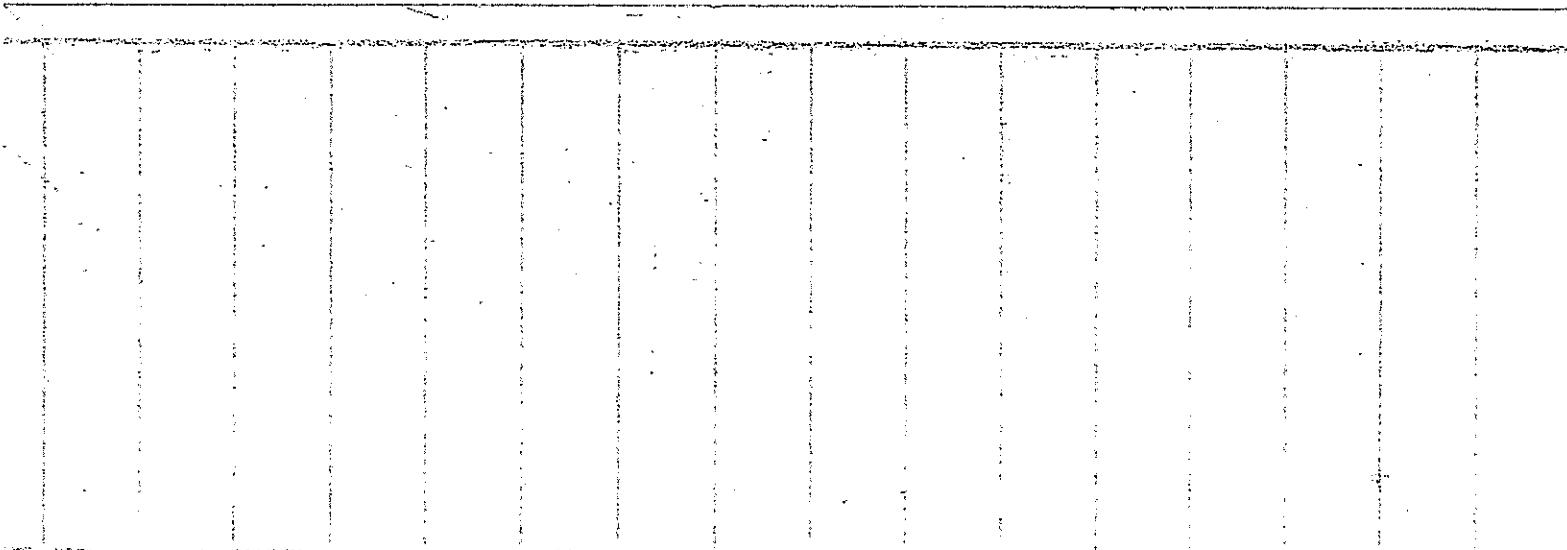


40
50
60
70
80
90
4500
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20
30
40
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80
90

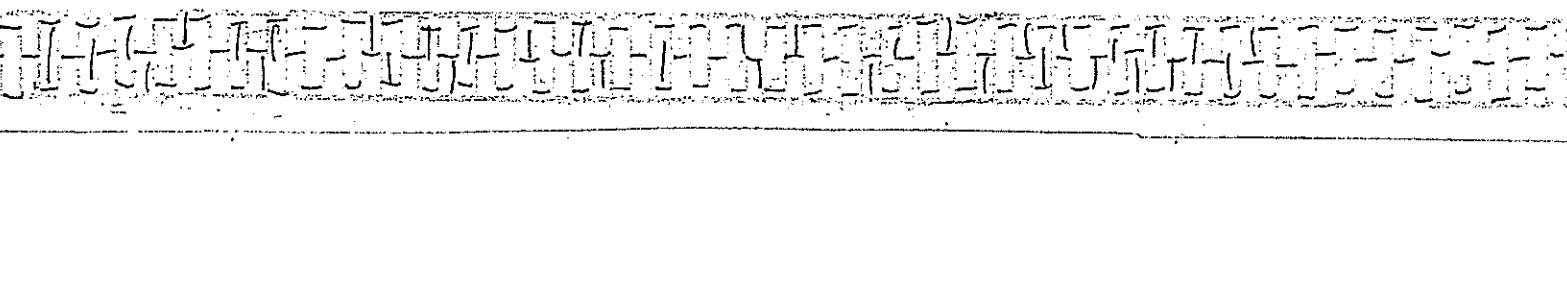
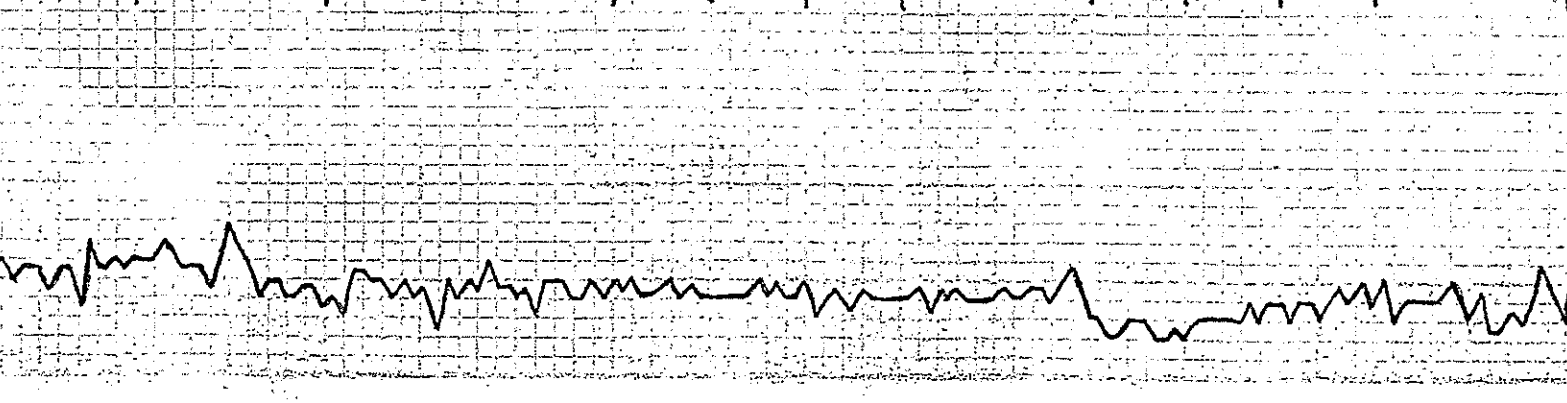
640 gm wco (4070g, 40700, 10700, 10700)
 300 gm wco (4070g, 35700, 20700, 35700)
 300 gm wco (3070g, 40700, 25700, 35700)
 HP-2306 # 2146 #
 IFP-159 # 348 # FF0-367 5509 #
 FSEF-1205 # FSEF-1138 #

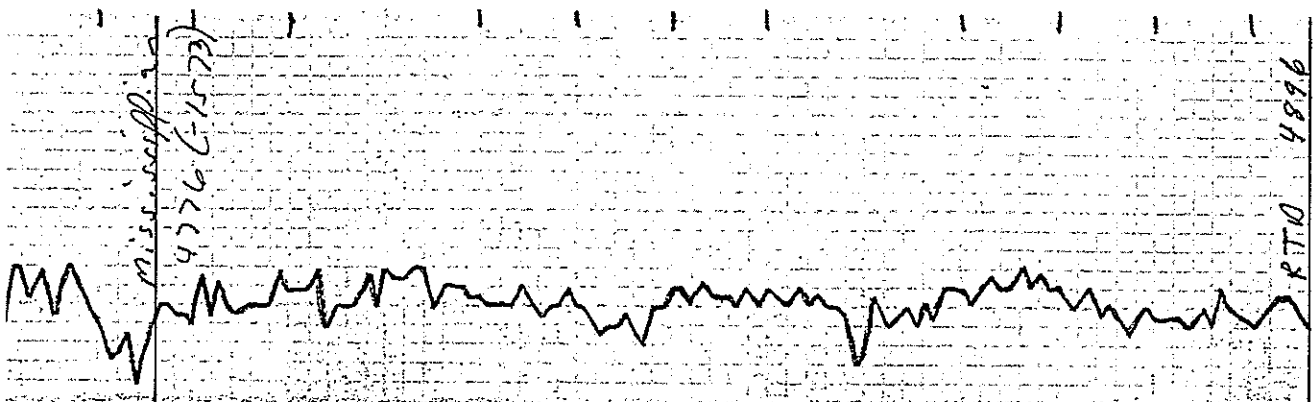
640 gm wco (4070g, 40700, 10700, 10700)
 300 gm wco (4070g, 35700, 20700, 35700)
 300 gm wco (3070g, 40700, 25700, 35700)
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640 gm wco (4070g, 40700, 10700, 10700)
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 HP-2306 # 2146 #
 IFP-159 # 348 # FF0-367 5509 #
 FSEF-1205 # FSEF-1138 #



4600	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
10	Sh, 1997-2000
20	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
30	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
40	Sh, 1997-2000
50	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
60	
70	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
80	Sh, 1997-2000
90	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
4700	Sh, 1997-2000
10	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
20	Sh, 1997-2000
30	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
40	Sh, 1997-2000
50	deine 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006
60	





Mississippi
4776 (-1573)

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4776 (-1573)

70
80
90
4900
10
20
30
40
50
60
70
80
90
4900

RTD 4896
(-1693)

