

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
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	HILTON TOKOI 3
Doc ID	1426358

Tops

Name	Top	Datum
Anhy.	1813	(+653)
Base Anhy.	1838	(+628)
Heebner	3765	(-1299)
Lansing	3807	(-1341)
Stark Sh.	4051	(-1585)
BKC	4120	(-1654)
Marmaton	4168	(-1702)
Pawnee	4248	(-1782)
Ft. Scott	4308	(-1868)
Cherokee Sh.	4334	(-1868)
Miss.	4407	(-1941)
LTD	4568	(-2103)

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

Invoice

RECEIVED
AUG 17 2018

Date	Invoice #
8/15/2018	3156X

Bill To
PALOMINO PETROLEUM INC 4924 SE 84TH ST NEWTON,KS 67114

P.O. No.	Terms	Project
HILTON TOKOL#3	Due on receipt	

Quantity	Description	Rate	Amount
220	60/40 POZMIX CEMENT	13.75	3,025.00
8	BENTONITE GEL	30.00	240.00
55	FLO-SEAL	2.00	110.00
228	HANDLING	1.90	433.20
	BULK MILEAGE	1,100.00	1,100.00
1	TRI-PLEX PUMP CHARGE FOR PLUG	850.00	850.00
55	HEAVY EQUIPMENT. ONE WAY	6.50	357.50
55	LMV- ONE WAY	2.75	151.25
1	DRY HOLE PLUG	62.50	62.50
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		
	NESS CO SALES TAX	7.50%	0.00

Thank you for your business.		Total	\$6,329.45
------------------------------	--	--------------	------------

Phone #	Fax #
785-445-3525	785-445-3526

GLOBAL OIL FIELD SERVICES, LLC

3156X

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell/KS

DATE <u>8-9-18</u>	SEC. <u>26</u>	TWP. <u>17S</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>7:45 PM</u>
LEASE <u>Hiltco Takol</u>	WELL #. <u>3</u>	LOCATION <u>Utica^{KS} PDE 75' 24"</u>			COUNTY <u>Neosho</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE) <u>NEW</u>			<u>North 1140</u>				

CONTRACTOR WW Drilling Rig #2

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 4565'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS _____

DISPLACEMENT _____

OWNER Palomino Petroleum Inc

CEMENT AMOUNT ORDERED 2205x 60/40 POC
9 1/2 Gel 4 1/4 perforation Seal

EQUIPMENT

PUMP TRUCK # 409 CEMENTER Brad HELPER Brad

BULK TRUCK # 473 DRIVER Tom

BULK TRUCK # _____ DRIVER _____

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

505x 1880'

405x 1030'

405x 250'

205x 60' wiper plug

Rot 305x

CHARGE TO: Palomino Petroleum Inc

STREET _____

CITY _____ STATE _____ ZIP _____

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



RECEIVED
 AUG 04 2018

Date: 8/1/2018
 Invoice # 883

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

P.O.#:
 Due Date: 8/31/2018
 Division: *Russell*

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 HILTON TOKOI 3 SEC 26-17-26

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 641.27	No				
Common-Class A	120	\$ 1,776.75	Yes				
Calcium Chloride	6	\$ 241.50	Yes				
POZ Mix-Standard	30	\$ 150.94	Yes				
Bulk Truck Matl-Material Service Charge	159	\$ 114.28	No				
Pump Truck Mileage-Job to Nearest Camp	34	\$ 109.97	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	34	\$ 85.53	No				
Premium Gel (Bentonite)	3	\$ 62.53	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,182.77
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (79.57)

	SubTotal for Taxable Items: \$ 2,175.93
	SubTotal for Non-Taxable Items: \$ 927.27
	Total: \$ 3,103.20
	Tax: \$ 141.44
	Amount Due: \$ 3,244.64
	Applied Payments:
	Balance Due: \$ 3,244.64

6.50% Ness County Sales Tax

Thank You For Your Business!

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 883

Date	8-1-18	Sec.	26	Twp.	17	Range	26	County	Ness	State	KS	On Location		Finish	3:30pm
Location								Utica 1E 7s 1w 1N into							

Lease	Hilton Tokoi	Well No.	3	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	WW #2			Charge To	Palomino Petroleum
Type Job	Surface			Street	
Hole Size	12 1/4	T.D.	219	City	
Csg.	8 5/8	Depth	218	State	
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	150 ⁸⁰ / ₂₀ 3-1/4 2-1/4
Cement Left in Csg.	10	Shoe Joint			
Meas Line		Displace	13 B4		

EQUIPMENT

Pumptrk	20	No.	Cementor	Common	120
			Helper	Poz. Mix	30
Bulktrk		No.	Driver	Gel.	2
			Driver	Calcium	6
Bulktrk	9	No.	Driver		
			Driver		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom Fast Circulation	Sand
Mix 150 SW + Displace	Handling 159
	Mileage

FLOAT EQUIPMENT

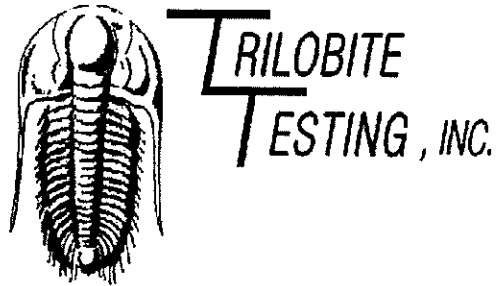
Cement Circulated.	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Thanks

Pumptrk Charge	Surface
Mileage	34

X Signature 

Tax	
Discount	
Total Charge	



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc.**

4924 SE 84th St
Newton, KS 67114+8827

ATTN: Andrew Stenzel

Hilton Tokoi #3

26-17S-26W Ness,KS

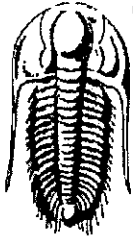
Start Date: 2018.08.07 @ 04:20:01

End Date: 2018.08.07 @ 06:16:17

Job Ticket #: 63896 DST #: 1

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

Printed: 2018.08.10 @ 09:40:46



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63896 DST#: 1
Test Start: 2018.08.07 @ 04:20:01

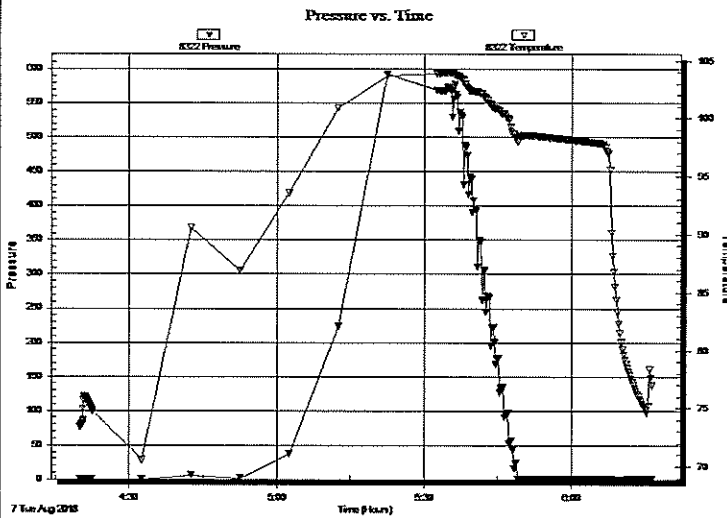
GENERAL INFORMATION:

Formation:	Mississippi			Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock:	ft (KB)		Tester:	Ken Swinney
Time Tool Opened:				Unit No:	72
Time Test Ended:	06:16:17			Reference Elevations:	2466.00 ft (KB) 2461.00 ft (CF)
Interval:	4347.00 ft (KB) To 4421.00 ft (KB) (TVD)			KB to GR/CF:	5.00 ft
Total Depth:	4421.00 ft (KB) (TVD)				
Hole Diameter:	7.88 inches	Hole Condition:			

Serial #: 8322

Press@RunDepth:	psig @	ft (KB)	Capacity:	psig	
Start Date:	2018.08.07	End Date:	2018.08.07	Last Calib.:	1899.12.30
Start Time:	04:20:01	End Time:	06:16:17	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: Bridge 18 stands in/ Pull tool to clean hole



PRESSURE SUMMARY

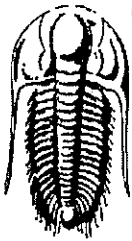
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

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+8827
ATTN: Andrew Stenzel

26-17S-26W Ness, KS
Hilton Tokoi #3
Job Ticket: 63896 **DST#: 1**
Test Start: 2018.08.07 @ 04:20:01

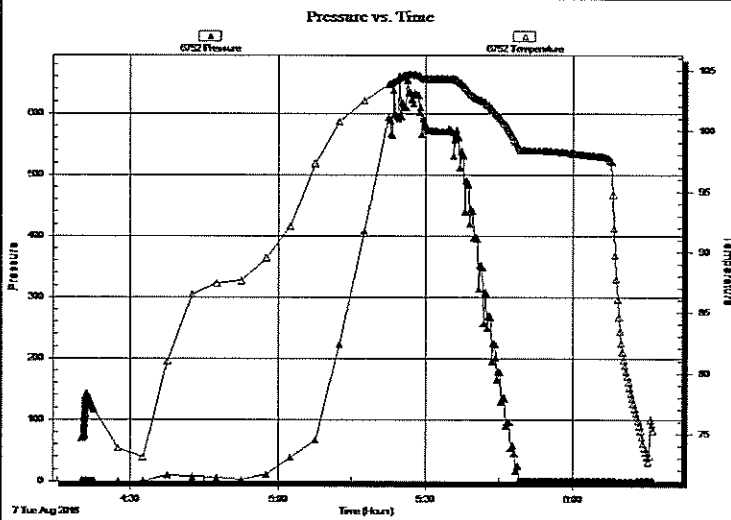
GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 06:16:17
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72
Interval: **4347.00 ft (KB) To 4421.00 ft (KB) (TVD)**
Total Depth: 4421.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Reference Elevations: 2466.00 ft (KB)
2461.00 ft (CF)
KB to GR/CF: 5.00 ft
Hole Condition:

Serial #: 6752

Press@RunDepth: psig @ ft (KB)
Start Date: 2018.08.07 End Date: 2018.08.07 Capacity:
Start Time: 04:20:01 End Time: 06:16:17 Last Calib.: 2018.08.07
Time On Btm:
Time Off Btm:

TEST COMMENT: Bridge 18 stands in/ Pull tool to clean hole



PRESSURE SUMMARY

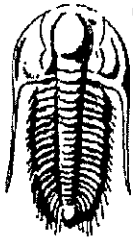
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63896 DST#: 1
Test Start: 2018.08.07 @ 04:20:01

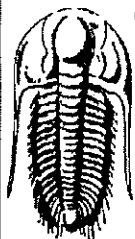
Tool Information

Drill Pipe:	Length: 4229.00 ft	Diameter: 3.80 inches	Volume: 59.32 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: lb
			Total Volume: 59.91 bbl	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial lb
Depth to Top Packer:	4347.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.80 ft			
Tool Length:	101.80 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4324.00	
Hydraulic tool	5.00			4329.00	
Jars	6.00			4335.00	
Safety Joint	2.00			4337.00	
Top Packer	5.00			4342.00	
Packer	5.00			4347.00	28.00 Bottom Of Top Packer
Recorder	1.00	8322	Inside	4348.00	
Recorder	1.00	6752	Outside	4349.00	
Anchor	35.00			4384.00	
Change Over Sub	1.00			4385.00	
Drill Pipe	31.80			4416.80	
Change Over Sub	1.00			4417.80	
Bullnose	3.00			4420.80	73.80 Anchor Tool

Total Tool Length: 101.80



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness,KS

Hilton Tokoi #3

Job Ticket: 63896 DST#: 1
Test Start: 2018.08.07 @ 04:20:01

Mud and Cushion Information

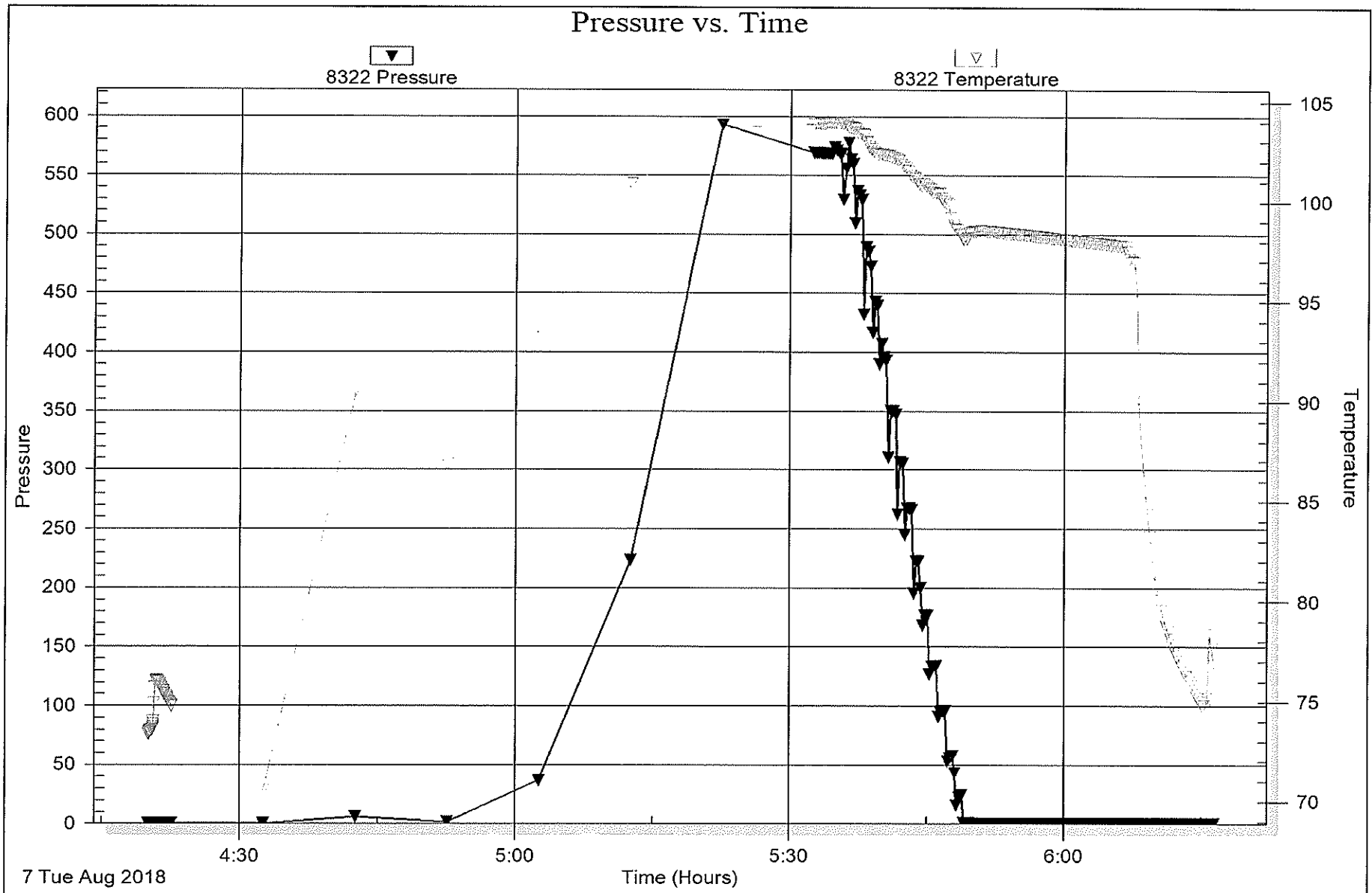
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: 1.00 inches			

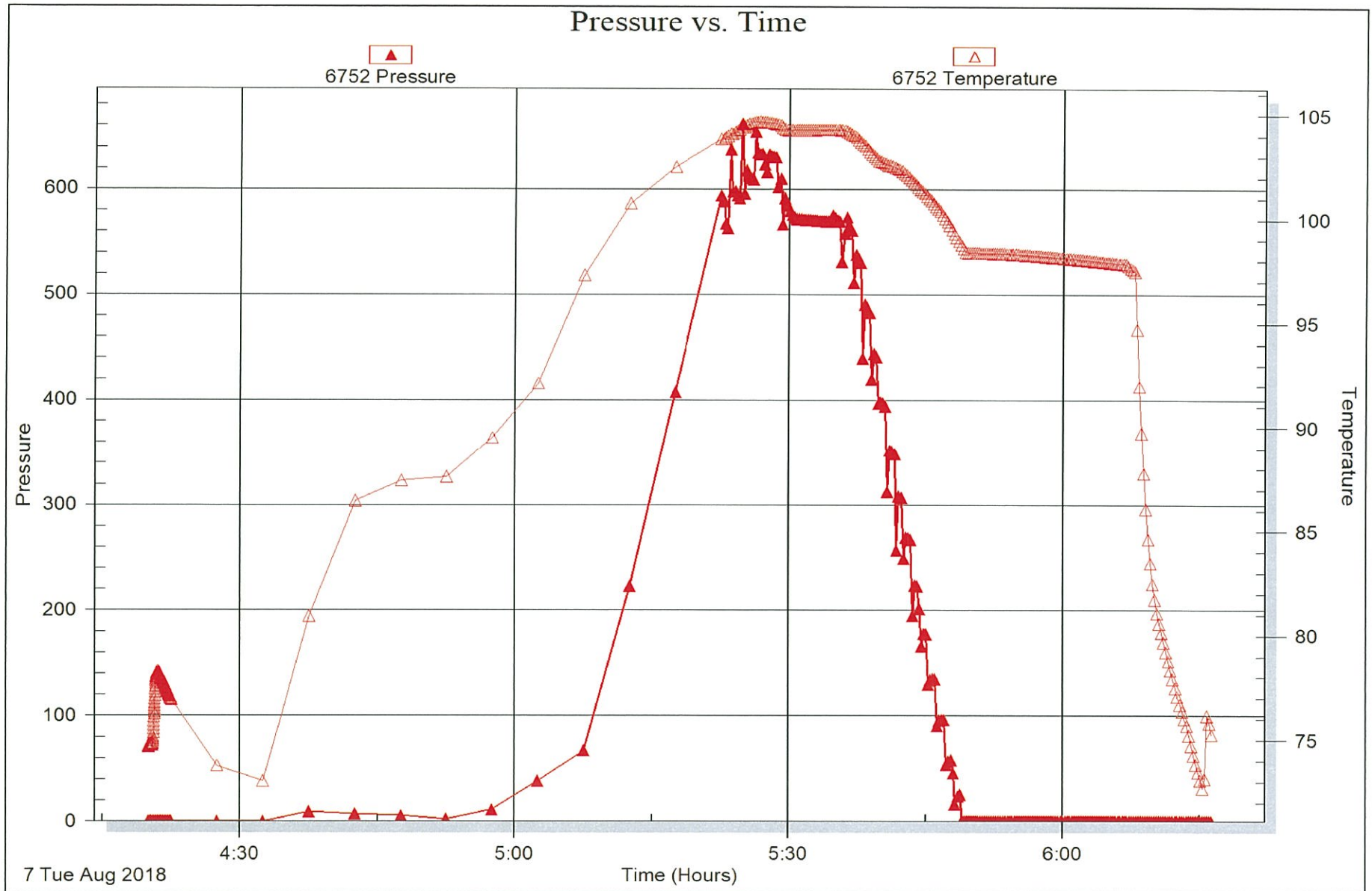
Recovery Information

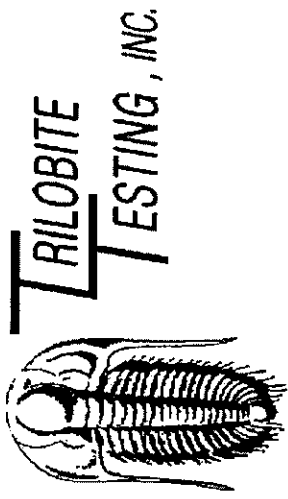
Recovery Table

Length ft	Description	Volume bbl

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







DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc.**

4924 SE 84th St
Newton, KS 67114+8827

ATTN: Andrew Stenzel

Hilton Tokoi #3

26-17S-26W Ness,KS

Start Date: 2018.08.07 @ 11:37:00

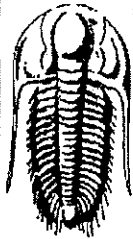
End Date: 2018.08.07 @ 18:19:02

Job Ticket #: 63897 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

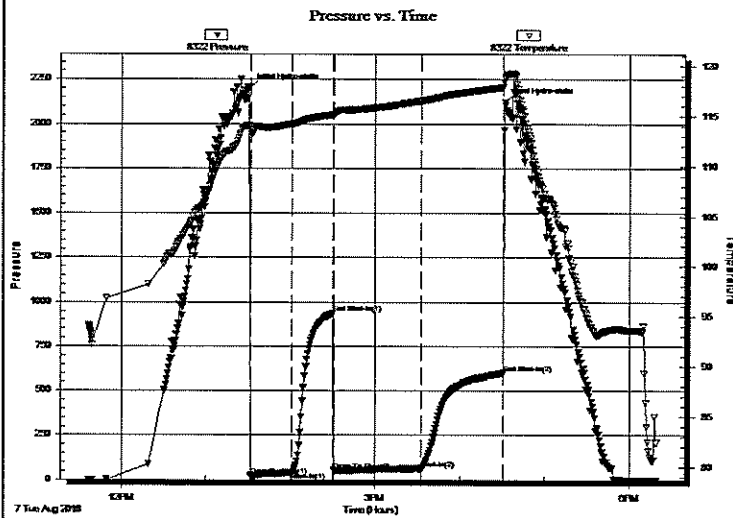
26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63897 **DST#: 2**
Test Start: 2018.08.07 @ 11:37:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:31:32 Tester: Ken Swinney
 Time Test Ended: 18:19:02 Unit No: 72
 Interval: **4347.00 ft (KB) To 4421.00 ft (KB) (TVD)** Reference Elevations: 2466.00 ft (KB)
 Total Depth: 4421.00 ft (KB) (TVD) 2461.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8322 Inside
 Press@RunDepth: 63.38 psig @ 4416.80 ft (KB) Capacity: psig
 Start Date: 2018.08.07 End Date: 2018.08.07 Last Calib.: 2018.08.07
 Start Time: 11:37:01 End Time: 18:19:02 Time On Btm: 2018.08.07 @ 13:31:02
 Time Off Btm: 2018.08.07 @ 16:32:02

TEST COMMENT: IFP 30 Minutes Blow built to 4 1/2"
 ISI 30 Minutes No blow back
 FFP 60 Minutes Blow built to 6 1/2"
 FSI 60 Mintues No blow back



PRESSURE SUMMARY

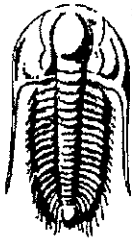
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.12	113.99	Initial Hydro-static
1	21.24	113.53	Open To Flow (1)
30	43.57	114.22	Shut-In(1)
60	938.43	115.15	End Shut-In(1)
60	52.06	115.09	Open To Flow (2)
122	63.38	116.52	Shut-In(2)
180	599.70	117.93	End Shut-In(2)
181	2122.49	118.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM Oil 40% Mud 60%	839.31
75.00	GO Gas 20% Oil 80%	839.52
0.00	45' GIP	0.00

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+8827
ATTN: Andrew Stenzel

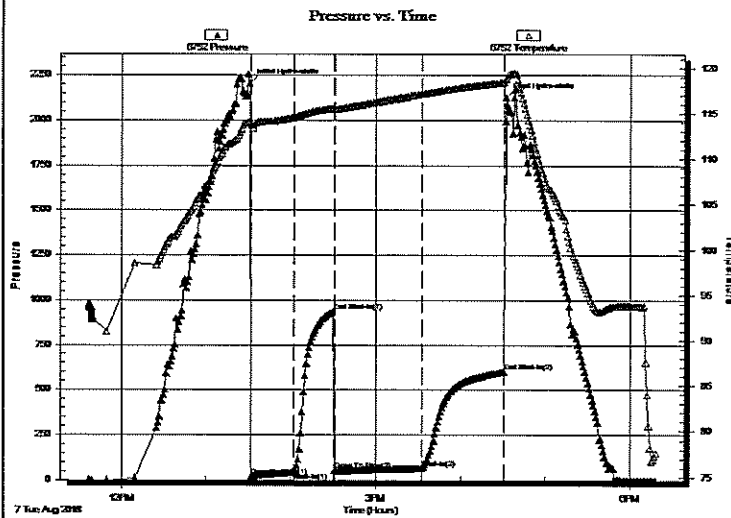
26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63897 **DST#: 2**
Test Start: 2018.08.07 @ 11:37:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:31:32
Time Test Ended: 18:19:02
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72
Interval: **4347.00 ft (KB) To 4421.00 ft (KB) (TVD)**
Reference Elevations: 2466.00 ft (KB)
Total Depth: 4421.00 ft (KB) (TVD) 2461.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6752 Outside
Press@RunDepth: 600.71 psig @ 4417.80 ft (KB) Capacity: psig
Start Date: 2018.08.07 End Date: 2018.08.07 Last Calib.: 2018.08.07
Start Time: 11:37:01 End Time: 18:18:02 Time On Btm: 2018.08.07 @ 13:31:02
Time Off Btm: 2018.08.07 @ 16:32:02

TEST COMMENT: IFP 30 Minutes Blow built to 4 1/2"
ISI 30 Minutes No blow back
FFP 60 Minutes Blow built to 6 1/2"
FSI 60 Mintues No blow back



PRESSURE SUMMARY

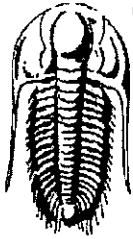
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.46	114.16	Initial Hydro-static
1	21.74	113.71	Open To Flow (1)
31	45.57	114.55	Shut-In(1)
59	938.75	115.57	End Shut-In(1)
60	53.46	115.42	Open To Flow (2)
122	65.53	117.11	Shut-In(2)
180	600.71	118.45	End Shut-In(2)
181	2128.75	118.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM Oil 40% Mud 60%	839.31
75.00	GO Gas 20% Oil 80%	839.52
0.00	45' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63897 DST#: 2
Test Start: 2018.08.07 @ 11:37:00

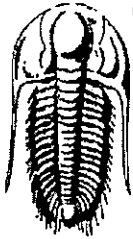
Tool Information

Drill Pipe:	Length: 4229.00 ft	Diameter: 3.80 inches	Volume: 59.32 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 120.00 inches	Volume: 1678.62 bbl	Weight to Pull Loose:	70000.00 lb
			Total Volume: 1737.94 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4347.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	73.80 ft				
Tool Length:	101.80 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4324.00	
Hydraulic tool	5.00			4329.00	
Jars	6.00			4335.00	
Safety Joint	2.00			4337.00	
Top Packer	5.00			4342.00	
Packer	5.00			4347.00	28.00 Bottom Of Top Packer
Anchor	35.00			4382.00	
Change Over Sub	1.00			4383.00	
Drill Pipe	31.80			4414.80	
Change Over Sub	1.00			4415.80	
Recorder	1.00	8322	Inside	4416.80	
Recorder	1.00	6752	Outside	4417.80	
Bullnose	3.00			4420.80	73.80 Anchor Tool

Total Tool Length: 101.80



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63897 DST#: 2
Test Start: 2018.08.07 @ 11:37:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

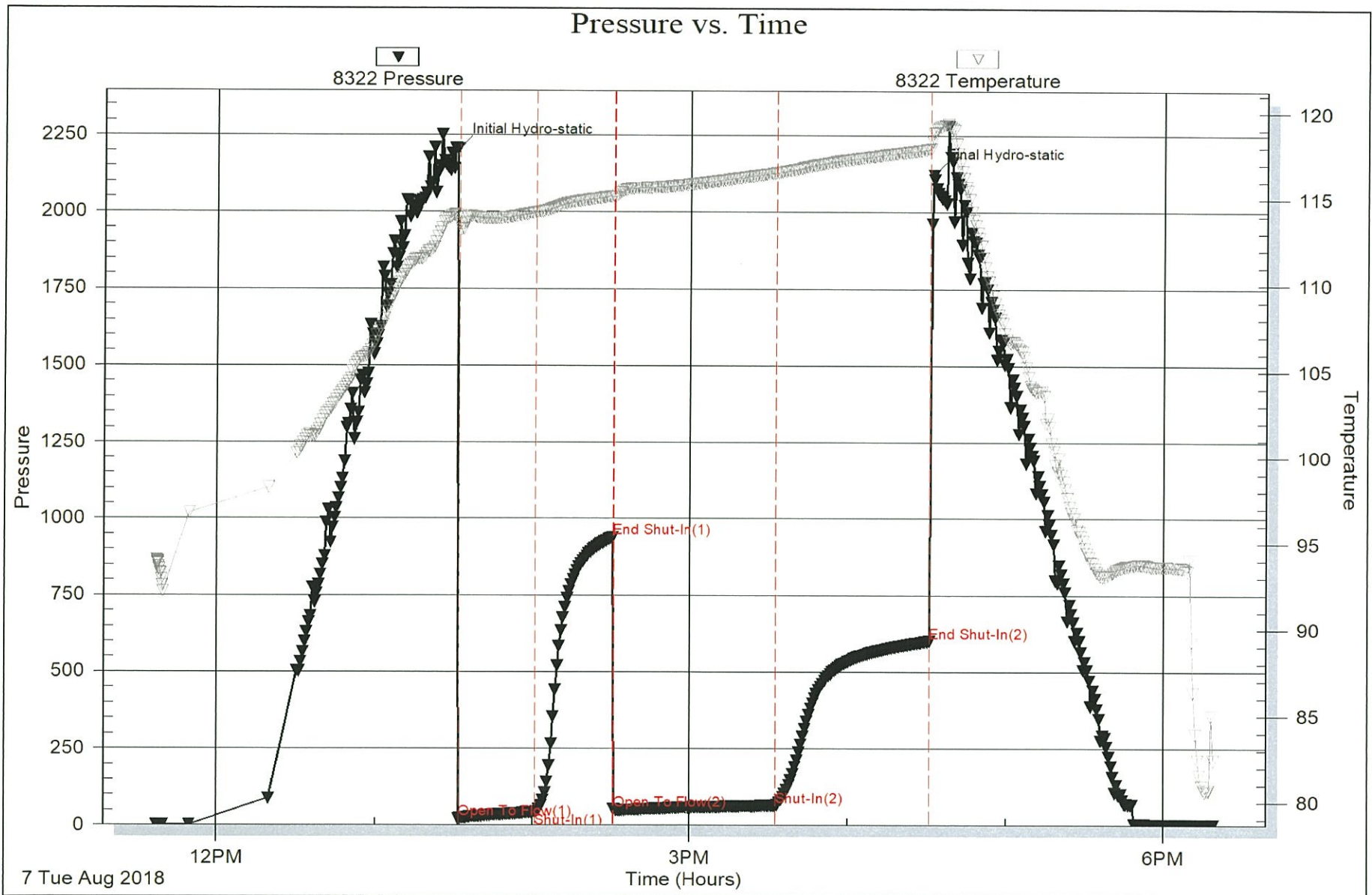
Length ft	Description	Volume bbl
60.00	HOCM Oil 40% Mud 60%	839.311
75.00	GO Gas 20% Oil 80%	839.521
0.00	45' GIP	0.000

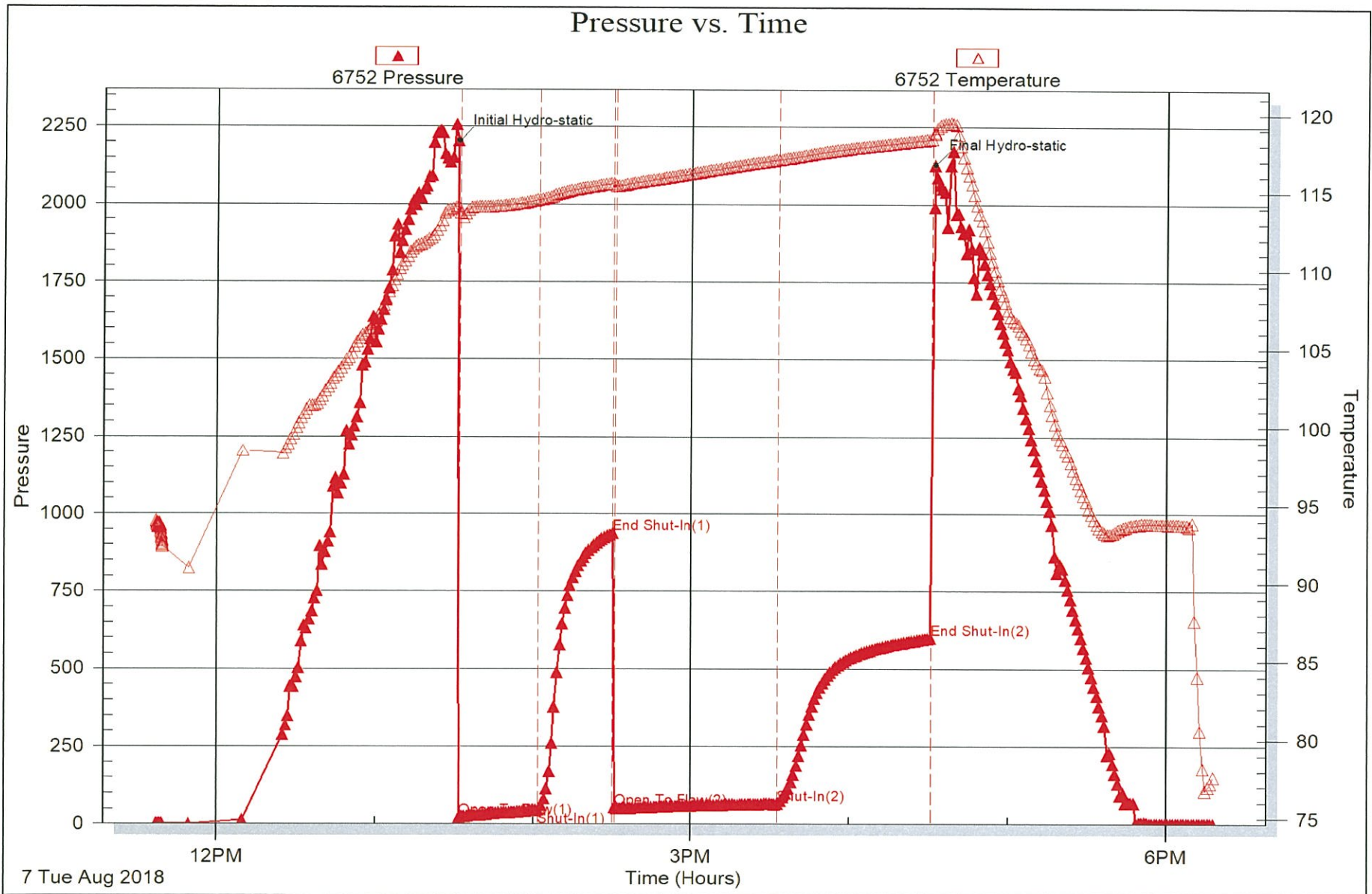
Total Length: 135.00 ft Total Volume: 1678.832 bbl

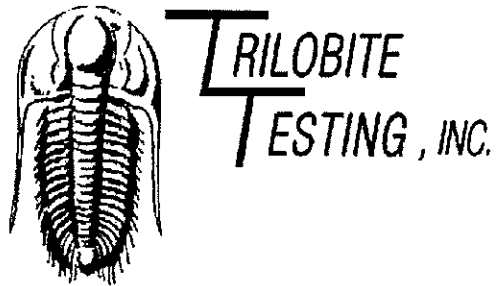
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc.**

4924 SE 84th St
Newton, KS 67114+8827

ATTN: Andrew Stenzel

Hilton Tokoi #3

26-17S-26W Ness,KS

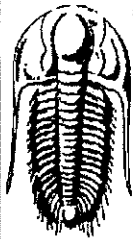
Start Date: 2018.08.08 @ 02:24:00

End Date: 2018.08.08 @ 08:18:02

Job Ticket #: 63898 DST #: 3

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

Printed: 2018.08.10 @ 09:40:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness, KS

Hilton Tokoi #3

Job Ticket: 63898

DST#: 3

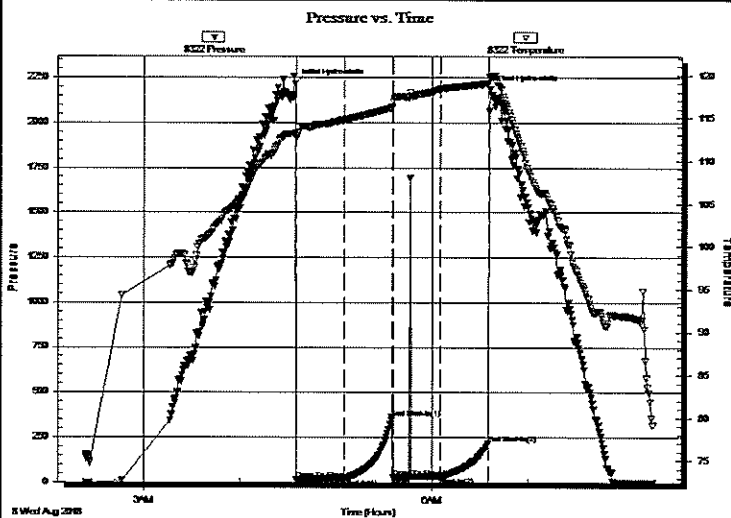
Test Start: 2018.08.08 @ 02:24:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:35:17
 Tester: Ken Swinney
 Time Test Ended: 08:18:02
 Unit No: 72
 Interval: **4422.00 ft (KB) To 4442.00 ft (KB) (TVD)**
 Reference Elevations: 2466.00 ft (KB)
 Total Depth: 4442.00 ft (KB) (TVD)
 2461.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8322 Inside
 Press@RunDepth: 31.36 psig @ 4438.00 ft (KB) Capacity: psig
 Start Date: 2018.08.08 End Date: 2018.08.08 Last Calib.: 2018.08.08
 Start Time: 02:24:01 End Time: 08:18:02 Time On Btm: 2018.08.08 @ 04:34:47
 Time Off Btm: 2018.08.08 @ 06:36:32

TEST COMMENT: IFP 30 Minutes Blow built to 1"
 ISI 30 Minutes No blow back
 FFP 30 Minutes Few bubbles at open then dead - Flush tool - Surface blow for 3 minutes
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

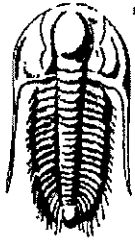
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.07	113.26	Initial Hydro-static
1	17.17	112.72	Open To Flow (1)
31	21.35	114.79	Shut-In(1)
61	358.73	116.25	End Shut-In(1)
62	24.27	116.94	Open To Flow (2)
91	31.36	118.42	Shut-In(2)
121	218.42	119.09	End Shut-In(2)
122	2184.04	119.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Clean Oil 100%	0.07
15.00	SOCM Oil 5% Mud 95%	0.07

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+8827
ATTN: Andrew Stenzel

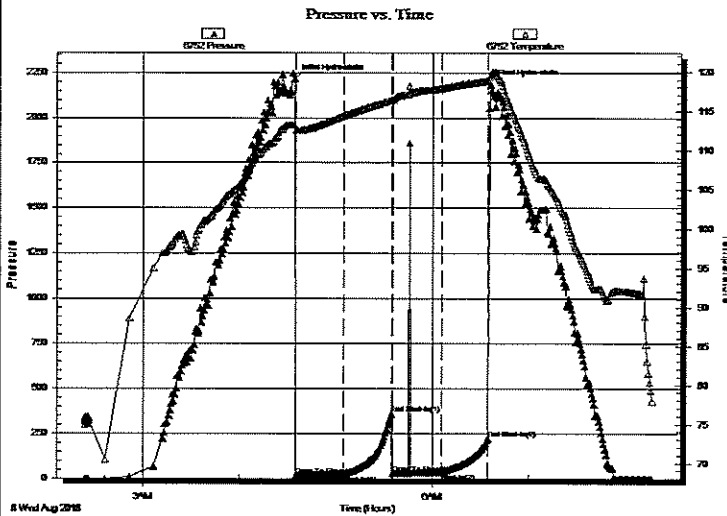
26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63898 DST#: 3
Test Start: 2018.08.08 @ 02:24:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:35:17
 Tester: Ken Swinney
 Time Test Ended: 08:18:02
 Unit No: 72
 Interval: **4422.00 ft (KB) To 4442.00 ft (KB) (TVD)**
 Reference Elevations: 2466.00 ft (KB)
 Total Depth: 4442.00 ft (KB) (TVD)
 2461.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6752 Outside
 Press@RunDepth: 220.93 psig @ 4439.00 ft (KB) Capacity: psig
 Start Date: 2018.08.08 End Date: 2018.08.08 Last Calib.: 2018.08.08
 Start Time: 02:24:01 End Time: 08:17:02 Time On Btm: 2018.08.08 @ 04:34:02
 Time Off Btm: 2018.08.08 @ 06:35:47

TEST COMMENT: IFP 30 Minutes Blow built to 1"
 ISI 30 Minutes No blow back
 FFP 30 Mintues Few bubbles at open then dead - Flush tool - Surface blow for 3 minutes
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

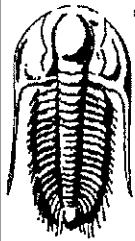
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.19	113.15	Initial Hydro-static
1	17.58	112.61	Open To Flow (1)
31	23.81	114.39	Shut-In(1)
61	360.92	116.37	End Shut-In(1)
62	25.69	116.43	Open To Flow (2)
92	33.79	117.88	Shut-In(2)
121	220.93	118.93	End Shut-In(2)
122	2184.84	119.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Clean Oil 100%	0.07
15.00	SOCM Oil 5% Mud 95%	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63898 **DST#: 3**
Test Start: 2018.08.08 @ 02:24:00

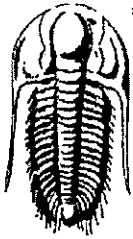
Tool Information

Drill Pipe:	Length: 4291.00 ft	Diameter: 3.80 inches	Volume: 60.19 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			Total Volume: 60.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4422.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4400.00	
Hydraulic tool	5.00			4405.00	
Jars	5.00			4410.00	
Safety Joint	2.00			4412.00	
Top Packer	5.00			4417.00	
Packer	5.00			4422.00	27.00 Bottom Of Top Packer
Anchor	15.00			4437.00	
Recorder	1.00	8322	Inside	4438.00	
Recorder	1.00	6752	Outside	4439.00	
Bullnose	3.00			4442.00	20.00 Anchor Tool
Total Tool Length:	47.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63898 DST#: 3
Test Start: 2018.08.08 @ 02:24:00

Mud and Cushion Information

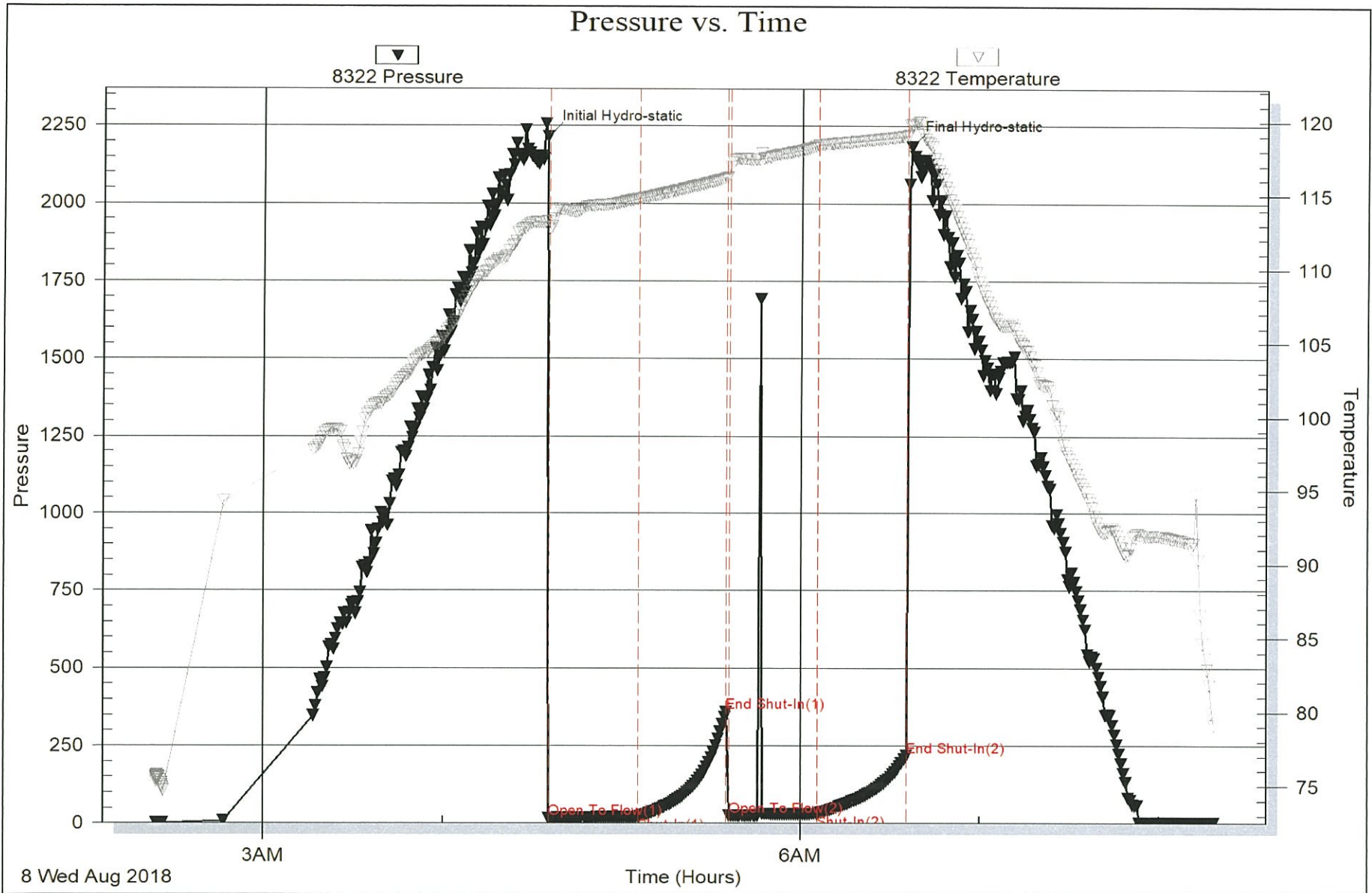
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4100.00 ppm			
Filter Cake: 1.00 inches			

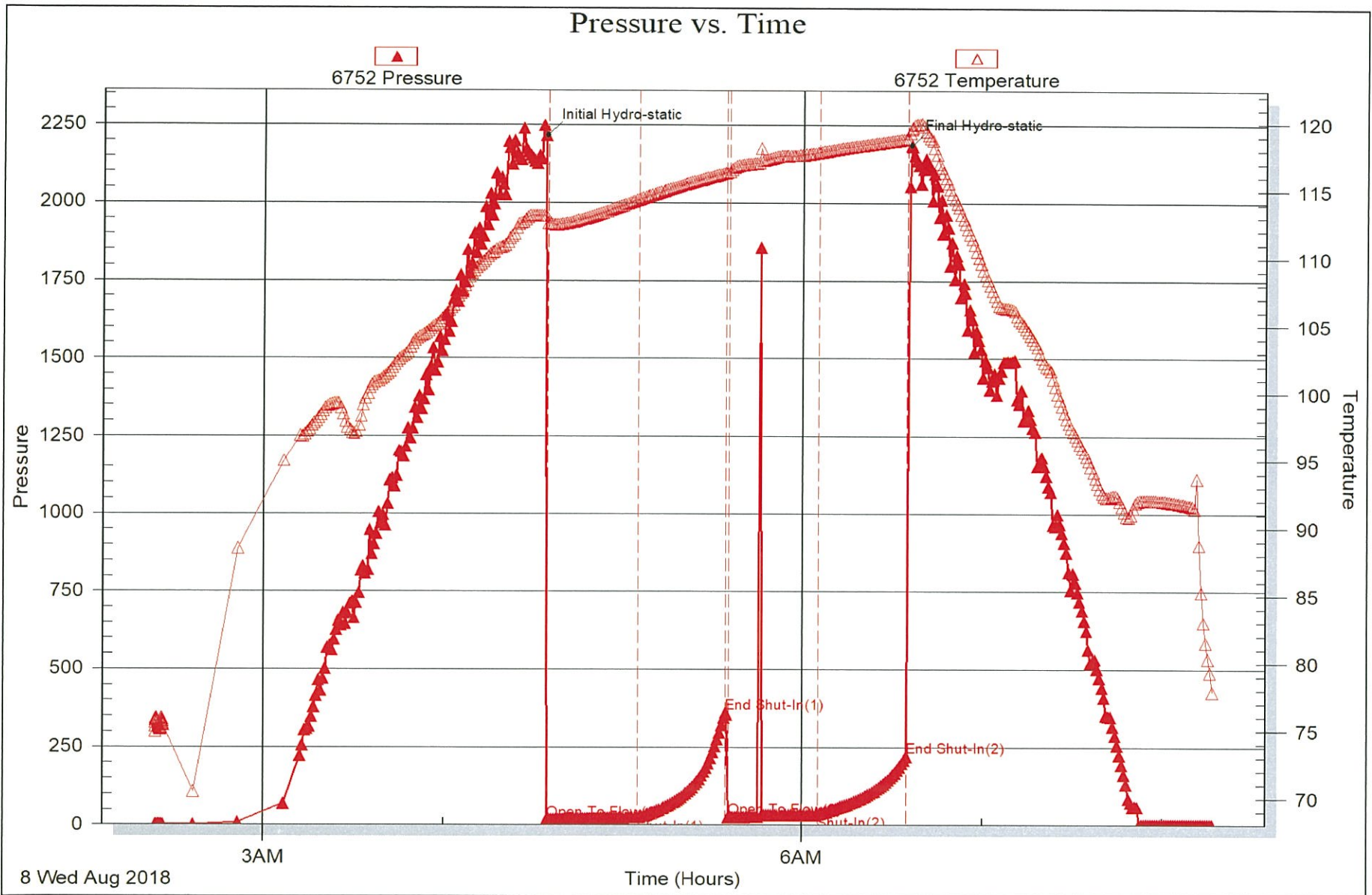
Recovery Information

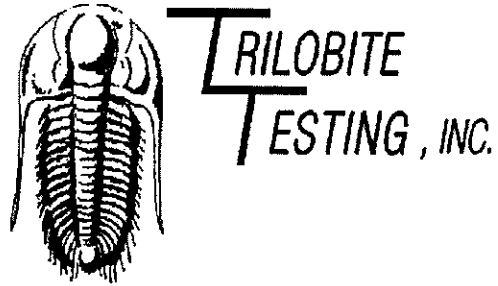
Recovery Table

Length ft	Description	Volume bbl
15.00	Clean Oil 100%	0.074
15.00	SOCM Oil 5% Mud 95%	0.074

Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc.**

4924 SE 84th St
Newton, KS 67114+8827

ATTN: Andrew Stenzel

Hilton Tokoi #3

26-17S-26W Ness,KS

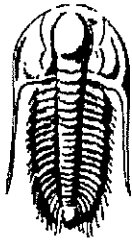
Start Date: 2018.08.09 @ 01:16:00

End Date: 2018.08.09 @ 08:16:02

Job Ticket #: 63899 DST #: 4

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

Printed: 2018.08.10 @ 09:39:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

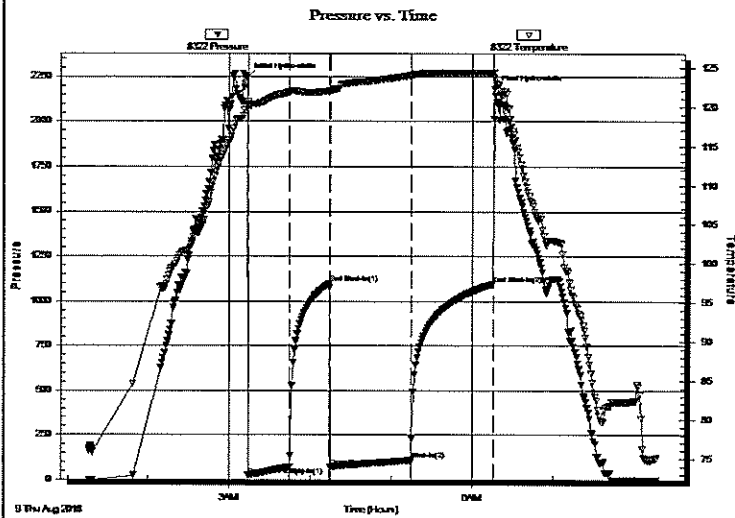
26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63899 **DST#: 4**
Test Start: 2018.08.09 @ 01:16:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:13:32
Time Test Ended: 08:16:02
Test Type: Conventional Straddle (Initial)
Tester: Ken Swinney
Unit No: 72
Interval: **4430.00 ft (KB) To 4463.00 ft (KB) (TVD)**
Reference Elevations: 2466.00 ft (KB)
Total Depth: 4568.00 ft (KB) (TVD) 2461.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8322 Inside
Press@RunDepth: 108.51 psig @ 4430.00 ft (KB) Capacity: psig
Start Date: 2018.08.09 End Date: 2018.08.09 Last Calib.: 2018.08.09
Start Time: 01:16:01 End Time: 08:16:02 Time On Btm: 2018.08.09 @ 03:13:02
Time Off Btm: 2018.08.09 @ 06:16:32

TEST COMMENT: IFP 30 Minutes Blow built to 6"
ISI 30 Minutes No blow back
FFP 60 Minutes Blow built to 6"
FSI 60 Minutes No blow back



PRESSURE SUMMARY

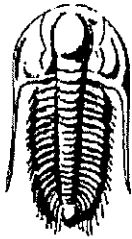
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.00	120.32	Initial Hydro-static
1	23.11	120.04	Open To Flow (1)
32	69.95	121.89	Shut-In(1)
61	1096.42	121.95	End Shut-In(1)
62	73.67	121.92	Open To Flow (2)
122	108.51	124.01	Shut-In(2)
183	1094.11	124.29	End Shut-In(2)
184	2179.51	123.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	MW w/skim oil Mud 15% Water 85%	1.85

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+8827
ATTN: Andrew Stenzel

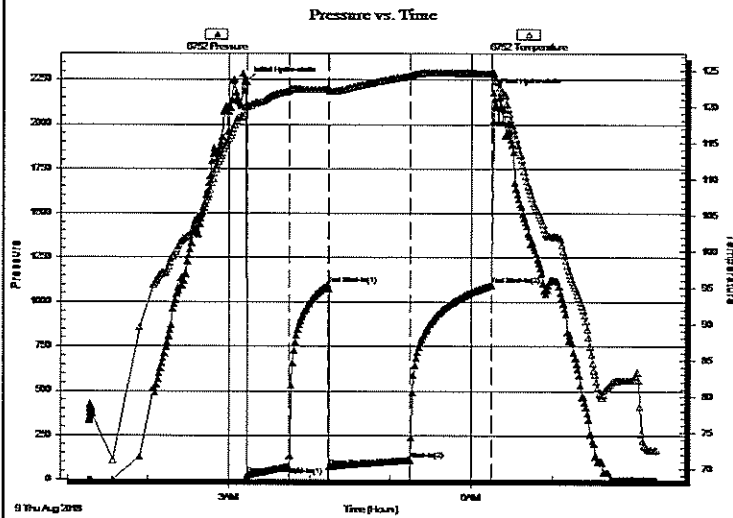
26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63899 DST#: 4
Test Start: 2018.08.09 @ 01:16:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:13:32
Time Test Ended: 08:16:02
Test Type: Conventional Straddle (Initial)
Tester: Ken Swinney
Unit No: 72
Interval: **4430.00 ft (KB) To 4463.00 ft (KB) (TVD)**
Reference Elevations: 2466.00 ft (KB)
Total Depth: 4568.00 ft (KB) (TVD) 2461.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6752 Outside
Press@RunDepth: 1095.36 psig @ 4430.00 ft (KB) Capacity: psig
Start Date: 2018.08.09 End Date: 2018.08.09 Last Calib.: 2018.08.09
Start Time: 01:16:01 End Time: 08:17:02 Time On Btm: 2018.08.09 @ 03:13:02
Time Off Btm: 2018.08.09 @ 06:16:32

TEST COMMENT: IFP 30 Minutes Blow built to 6"
ISI 30 Minutes No blow back
FFP 60 Minutes Blow built to 6"
FSI 60 Minutes No blow back



PRESSURE SUMMARY

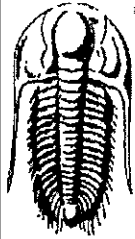
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.84	120.30	Initial Hydro-static
1	24.70	120.11	Open To Flow (1)
32	71.81	122.24	Shut-In(1)
61	1097.92	122.40	End Shut-In(1)
62	74.68	122.17	Open To Flow (2)
122	1099.98	124.28	Shut-In(2)
183	1095.36	124.63	End Shut-In(2)
184	2179.95	124.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	MW w/skim oil Mud 15% Water 85%	1.85

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+8827
ATTN: Andrew Stenzel

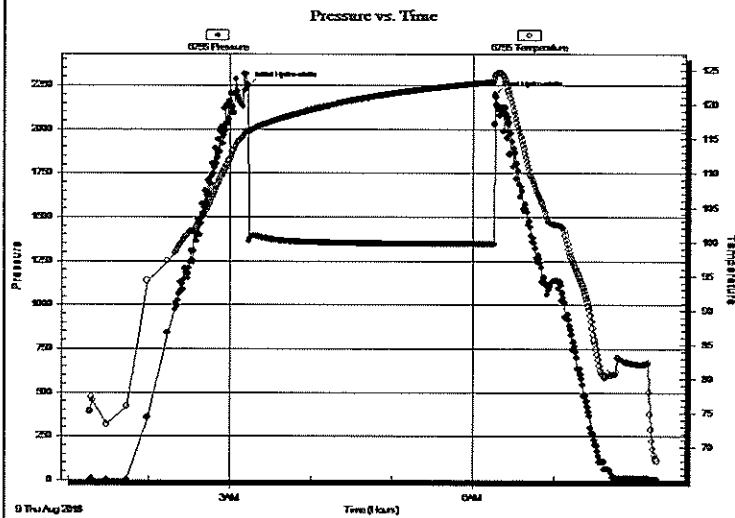
26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63899 DST#: 4
Test Start: 2018.08.09 @ 01:16:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 03:13:32
Time Test Ended: 08:16:02
Test Type: Conventional Straddle (Initial)
Tester: Ken Swinney
Unit No: 72
Interval: **4430.00 ft (KB) To 4463.00 ft (KB) (TVD)**
Reference Elevations: 2466.00 ft (KB)
Total Depth: 4568.00 ft (KB) (TVD)
2461.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 6755 **Below (Straddle)**
Press@RunDepth: psig @ 4467.55 ft (KB) Capacity: psig
Start Date: 2018.08.09 End Date: 2018.08.09 Last Calib.: 2018.08.09
Start Time: 01:16:01 End Time: 08:16:02 Time On Btm: 2018.08.09 @ 03:13:02
Time Off Btm: 2018.08.09 @ 06:16:32

TEST COMMENT: IFP 30 Minutes Blow built to 6"
ISI 30 Minutes No blow back
FFP 60 Minutes Blow built to 6"
FSI 60 Mintues No blow back



PRESSURE SUMMARY

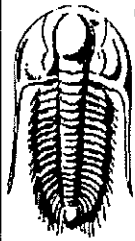
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.52	116.10	Initial Hydro-static
184	2196.08	124.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	MW w/skim oil Mud 15% Water 85%	1.85

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

26-17S-26W Ness,KS
Hilton Tokoi #3
Job Ticket: 63899 **DST#: 4**
Test Start: 2018.08.09 @ 01:16:00

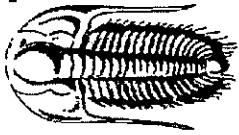
Tool Information

Drill Pipe:	Length: 4292.00 ft	Diameter: 3.80 inches	Volume: 60.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 60.80 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.80 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4430.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	4566.25 ft			
Interval between Packers:	136.25 ft			
Tool Length:	160.05 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4411.20	
Hydraulic tool	5.00			4416.20	
Jars	5.00			4421.20	
Safety Joint	2.00			4423.20	
Top Packer	5.00			4428.20	
Packer	1.80			4430.00	23.80 Bottom Of Top Packer
Recorder	0.00	8322	Inside	4430.00	
Recorder	0.00	6752	Outside	4430.00	
Anchor	27.00			4457.00	
Blank Off Sub	1.00			4458.00	
Packer (Interval Side)	3.10			4461.10	
Packer (Tail Side)	1.60			4462.70	
Perforations	4.00			4466.70	
Change Over Sub	0.85			4467.55	
Recorder	0.00	6755	Below	4467.55	
Drill Pipe	94.68			4562.23	
Change Over Sub	1.02			4563.25	
Bullnose	3.00			4566.25	136.25 Anchor Tool

Total Tool Length: 160.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.

26-17S-26W Ness,KS

4924 SE 84th St

Hilton Tokoi #3

New ton, KS 67114+8827

Job Ticket: 63899

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2018.08.09 @ 01:16:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 9.59 in³
Resistivity: ohm.m
Salinity: 4500.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length:
Cushion Volume:
Gas Cushion Type:
Gas Cushion Pressure:

Oil API:
Water Salinity: 25000 ppm
ft
bbl
psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	MM w/skim oil Mud 15% Water 85%	1.853

Total Length: 210.00 ft Total Volume: 1.853 bbl

Num Fluid Samples: 0

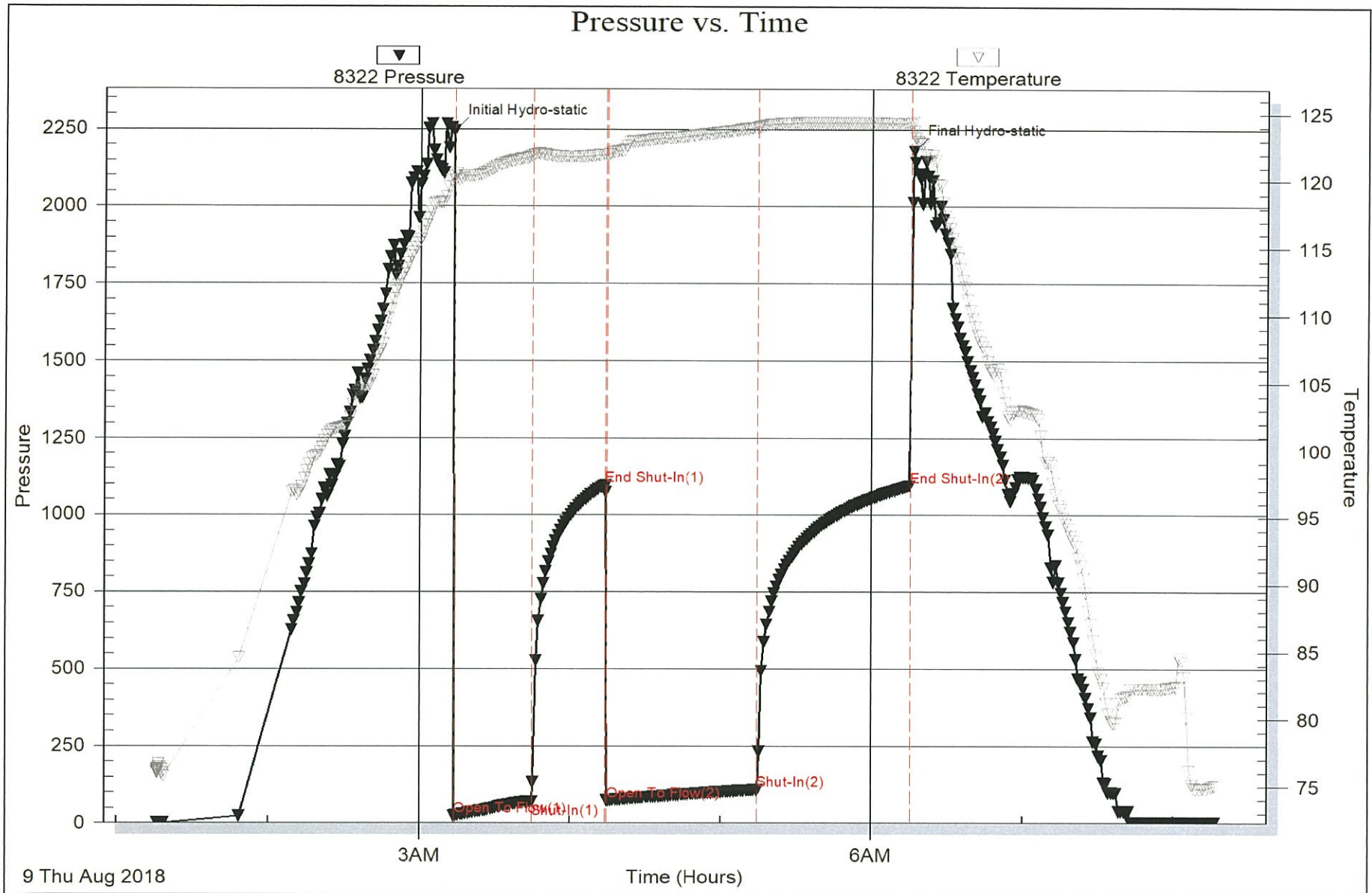
Num Gas Bombs: 0

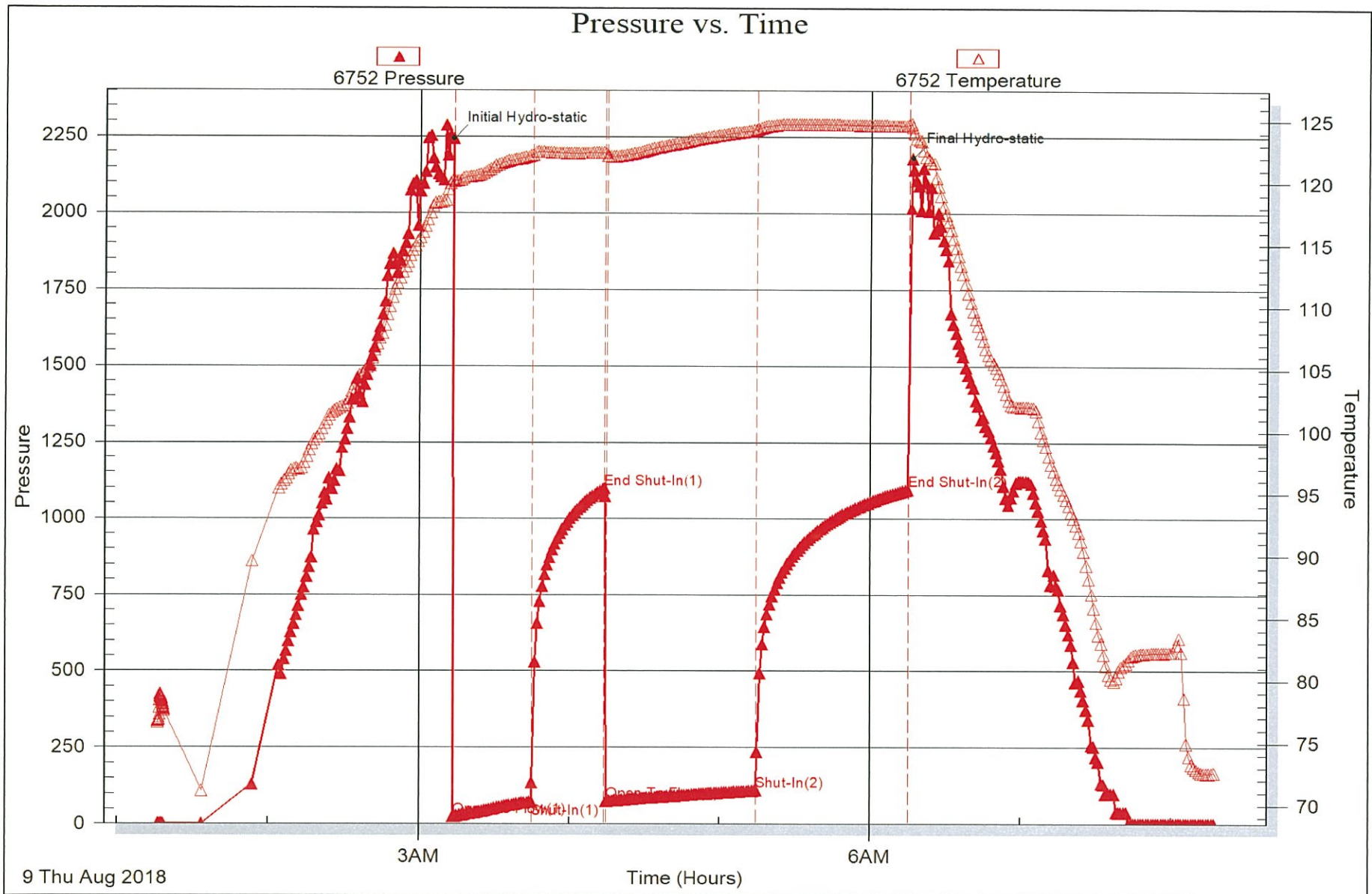
Serial #:

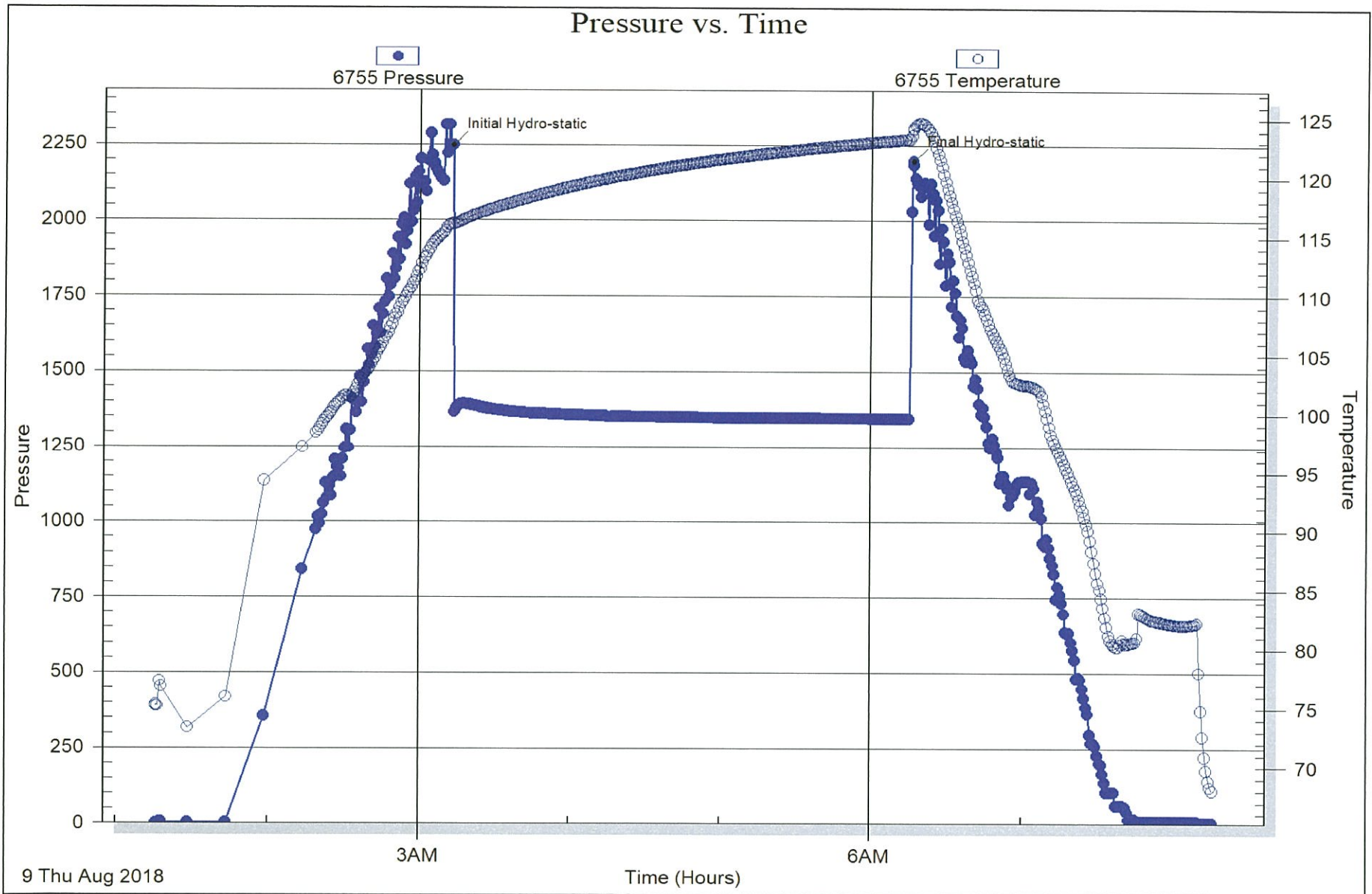
Laboratory Name:

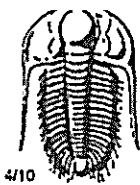
Laboratory Location:

Recovery Comments: Recovery Resistivity .257 ohms @ 72 deg.









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63896

Well Name & No. Hilton Tokoi #3 Test No. 1 Date 7 Aug 18
 Company Palomino Petroleum Inc. Elevation 2466 KB 2461 GL
 Address 4924 SE 84th St. Newton Kansas 67114-8827
 Co. Rep / Geo. Andrew Rig WW Rig 2
 Location: Sec. 26 Twp 17S Rge. 26W Co. Ness State KS

Interval Tested 4347-4421 Zone Tested Mississippi
 Anchor Length 74 Drill Pipe Run 4229 Mud Wt. 9.2
 Top Packer Depth 4342 Drill Collars Run 120 Vls 66
 Bottom Packer Depth 4347 Wt. Pipe Run - WL 7.2
 Total Depth 4421 Chlorides 3700 ppm System LCM 1#
 Blow Description H.T bridge 18 stands in / Pull tool clean hole

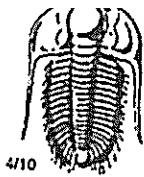
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic _____ Test 950 T-On Location 3:45 am
 (B) First Initial Flow _____ Jars 250 T-Started 4:20 am
 (C) First Final Flow _____ Safety Joint 75 T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled _____
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 6:16 am
 (F) Second Final Flow _____ Mileage 92 92 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open _____ Extra Packer _____
 Initial Shut-In _____ Extra Recorder _____
 Final Flow _____ Day Standby _____
 Final Shut-In _____ Accessibility _____
 Sub Total 1367 Sub Total _____
 Total 1367 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63897

Well Name & No. Hilton To kai #3 Test No. 2 Date 7 Aug 19
 Company Palomera Petroleum Inc Elevation 2466 KB 2461 GL
 Address 4924 SE 84th St Newton Kansas 67114-8827
 Co. Rep / Geo. Andrew Steudel Rig WW R. 9.2
 Location: Sec. 26 Twp 17S Rge. 26 W Co. NESS State KS

Interval Tested 4347-4421 Zone Tested MISSISSIPPI
 Anchor Length 74 Drill Pipe Run 4229 Mud Wt. 9.1
 Top Packer Depth 4342 Drill Collars Run 120 Vis 58
 Bottom Packer Depth 4347 Wt. Pipe Run - WL 8.0
 Total Depth 4421 Chlorides 4100 ppm System LCM 1#

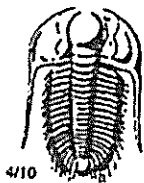
Blow Description I.F. Blow built to 4 1/2 inches
I.S.I. No blow back
F.F. Blow built to 6 1/2 inches
I.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Oil Mud</u>		<u>40%</u>		<u>60%</u>
<u>75</u>	<u>Clay Gassy Oil</u>	<u>20%</u>	<u>80%</u>		
<u>45</u>	<u>GIP</u>	<u>100%</u>			

Rec Total 180 BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2200 Test 1150 T-On Location _____
 (B) First Initial Flow 21 Jars 250 T-Started 11:37 am
 (C) First Final Flow 93 Safety Joint 75 T-Open 1:30 pm
 (D) Initial Shut-In 938 Circ Sub _____ T-Pulled 4:30 pm
 (E) Second Initial Flow 52 Hourly Standby _____ T-Out 6:20 pm
 (F) Second Final Flow 63 Mileage 92 Comments _____
 (G) Final Shut-In 599 Sampler _____
 (H) Final Hydrostatic 2122 Straddle _____ Ruined Shale Packer _____
 _____ Shale Packer _____ Ruined Packer _____
 _____ Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1475
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1475

Approved By _____ Our Representative [Signature]
 Tritobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63898

Well Name & No. Hilton Takoi #3 Test No. 3 Date 8 Aug 18
 Company Palomine Petroleum Inc Elevation 2466 KB 2461 GL
 Address 4924 SE 84th St Newton Kansas 6711418827
 Co. Rep / Geo. Andrew Stenzel Rig WW Rig 2
 Location: Sec. 26 Twp 17S Rge. 26W Co. Ness State KS

Interval Tested 4422-4442 Zone Tested MISS-SS-API
 Anchor Length 20 Drill Pipe Run 4291 Mud Wt. 9.1
 Top Packer Depth 4417 Drill Collars Run 120 Vls 58
 Bottom Packer Depth 4422 Wt. Pipe Run - WL 8.0
 Total Depth 4442 Chlorides 4100 ppm System LCM 1#

Blow Description I.F. Blow built to 1 inch
I.S.I. No blow back
F.F. Few bubbles at open then dead/Flush tool surface blow for 3 minutes
F.S.I. No blow back

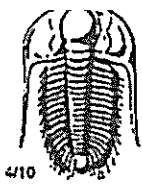
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>clean oil</u>		<u>100</u>		
<u>15</u>	<u>oil cut mud</u>		<u>5</u>		<u>95</u>

Rec Total 30 BHT 119 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2215</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>12:57 am</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:24 am</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:34 am</u>
(D) Initial Shut-In <u>358</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>6:34 am</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:15 am</u>
(F) Second Final Flow <u>31</u>	<input checked="" type="checkbox"/> Mileage <u>92 92</u>	Comments _____
(G) Final Shut-In <u>218</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2184</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow _____	<input type="checkbox"/> Extra Recorder _____	Total <u>1567</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1567</u>	

Approved By _____ Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63899

Well Name & No. Hilton Tokoi #3 Test No. 4 Date 9 Aug 18
 Company Palomino Petroleum Inc Elevation 2466 KB 2461 GL
 Address 4924 SE 84th St. Newton Kansas 67114-8827
 Co. Rep / Geo. Andrew Stenzel Rig WW Rig 2
 Location: Sec. 26 Twp 17S Rge. 26W Co. Ness State KS

Interval Tested 4430-4463 Zone Tested Mississippi
 Anchor Length 33 Drill Pipe Run 4292 Mud Wt. 9.3
 Top Packer Depth 4425 Drill Collars Run 120 Vis 64
 Bottom Packer Depth 4430 Wt. Pipe Run - WL 9.6
 Total Depth 4568 Chlorides 4500 ppm System LCM Yr

Blow Description I.F. Blow built to 6 inches
I.S.I. No blow back
F.F. Blow built to 6 inches
F.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>Muddy Water w/shim oil</u>			<u>85</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 210 BHT 124 Gravity _____ API RW .257 @ 72 ° F Chlorides 25,000 ppm

(A) Initial Hydrostatic 2244 Test 1150 T-On Location 11:45 pm
 (B) First Initial Flow 23 Jars 250 T-Started 1:16 am
 (C) First Final Flow 69 Safety Joint 75 T-Open 3:12 am
 (D) Initial Shut-In 1096 Circ Sub _____ T-Pulled 6:12 am
 (E) Second Initial Flow 73 Hourly Standby _____ T-Out 8:18 am
 (F) Second Final Flow 108 Mileage 92 92 Comments _____
 (G) Final Shut-In 1094 Sampler _____
 (H) Final Hydrostatic 2177 Straddle 600

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 2167
 Sub Total 2167
 MP/DST Disc't _____

Approved By _____ Our Representative _____

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Andrew Stenzel Geologist

Ness City, Kansas



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

Well Name: Hilton Tokoi #3
API: 15-135-26011
Location: NW-NE-SE-NW Sec 26-17S-26W (Ness County)
License Number: 30742
Spud Date: 8/1/18
Surface Coordinates: 1347' FNL & 2265' FWL
Region: KANSAS
Drilling Completed: 8/9/18

Bottom Hole
Coordinates:
Ground Elevation (ft): 2461
Logged Interval (ft): 3600 To: TD
Formation: MISSISSIPPI
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2466
Total Depth (ft): 4565

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

OPERATOR

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

GEOLOGIST

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

Drilling Report

DAILY DRILLING REPORT:

8/1/18 MIRU, ran surface casing
8/2/18 Drilling @ 802'
8/3/18 Drilling @ 2445'
8/4/18 Drilling @ 3230'
8/5/18 Drilling @ 3873'
8/6/18 Drilling @ 4210'
8/7/18 DST #1, DST #2
8/8/18 DST #3, ran electric logs
8/9/18 DST #4, plugged & abandoned

Services

RIG: WW DRILLING, Rig #2
MUD: MUDCO
LOGS: Gemini Wireline: CNDL, DIL, ML

Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 28# casing at 219'
PRODUCTION Casing: None



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
4924 SE 84th St
New ton, Kansas
67114+8827
ATTN: Andrew Stenzel

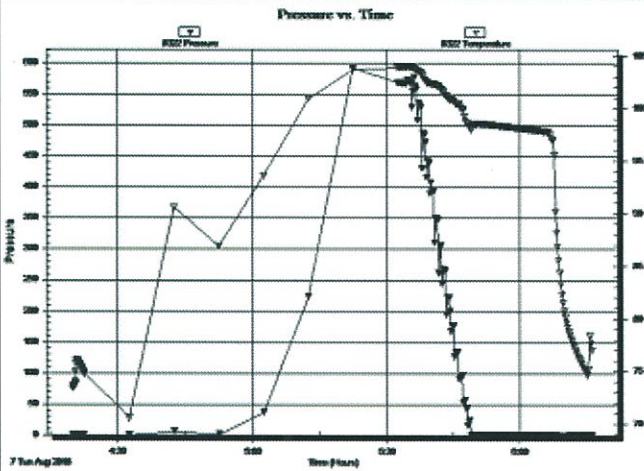
26/17S/26W/Ness
Hilton Tokoi #3
Job Ticket: 63896 **DST#: 1**
Test Start: 2018.08.07 @ 00:00:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:
Interval: **4347.00 ft (KB) To 4421.00 ft (KB) (TVD)**
Total Depth: **4421.00 ft (KB) (TVD)**
Hole Diameter: **7.80 inches** Hole Condition:
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72 Scott City/ 92
Reference Elevations: 2466.00 ft (KB)
2461.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322
Press@RunDepth: psig @ ft (KB)
Start Date: 2018.08.07 End Date: 2018.08.07 Capacity: psig
Start Time: 04:20:01 End Time: 06:16:17 Last Calib.: 1899.12.30
Time On Btmr
Time Off Btmr

TEST COMMENT: Bridge 18 stands in/ Pull tool to clean hole



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

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, Kansas
67114+8827
ATTN: Andrew Stenzel

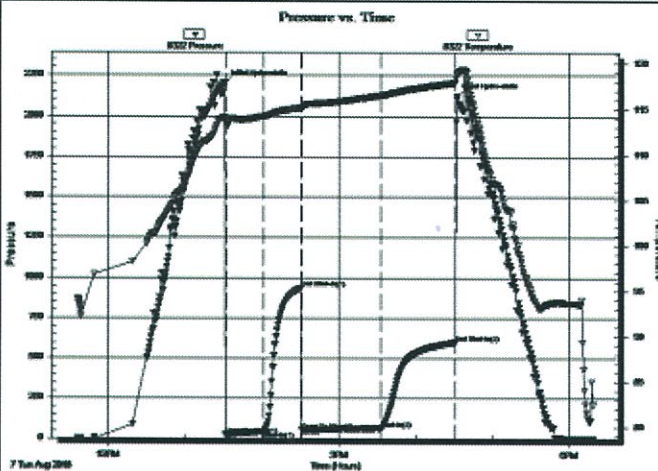
26/17S/26W/Ness
Hilton Tokoi #3
Job Ticket: 63896 **DST#: 2**
Test Start: 2018.08.07 @ 11:37:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:31:32
Time Test Ended: 18:19:02
Interval: **4347.00 ft (KB) To 4421.00 ft (KB) (TVD)**
Total Depth: **4421.00 ft (KB) (TVD)**
Hole Diameter: **7.80 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72
Reference Elevations: 2466.00 ft (KB)
2461.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322 Inside
Press@RunDepth: 63.38 psig @ 4416.80 ft (KB) Capacity: psig
Start Date: 2018.08.07 End Date: 2018.08.07 Last Callb.: 2018.08.07
Start Time: 11:37:01 End Time: 18:19:02 Time On Blmt: 2018.08.07 @ 13:31:02
Time Off Blmt: 2018.08.07 @ 16:32:02

TEST COMMENT: I.F. 30 Minutes/ Blow built to 4 1/2 inches
I.S.I. 30 Minutes/ No blow back
F.F. 60 Minutes/ Blow built to 6 1/2 inches
F.S.I. 60 Minutes/ No blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.12	113.99	Initial Hydro-static
1	21.24	113.53	Open To Flow (1)
30	43.57	114.22	Shut-In(1)
60	938.43	115.15	End Shut-In(1)
60	52.06	115.09	Open To Flow (2)
122	63.38	116.52	Shut-In(2)
180	599.70	117.93	End Shut-In(2)
181	2122.49	118.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oily Mud/ Oil 40% Mud 60%	839.31
75.00	Gassy Oil/ Gas 20% Oil 80%	839.52
0.00	45 feet GIP	0.00

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, Kansas
67114+8827
ATTN: Andrew Stenzel

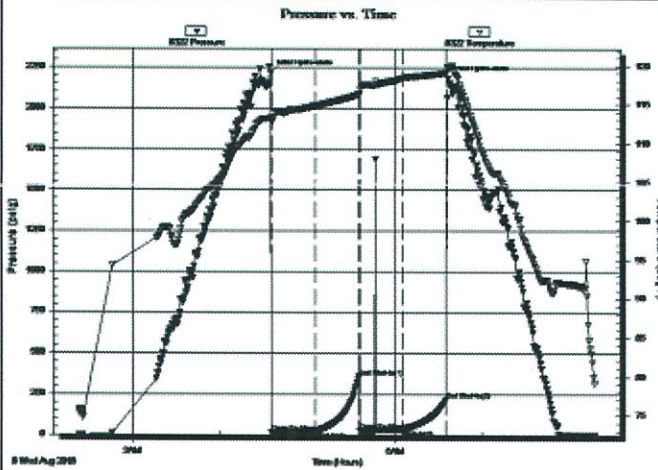
26/17S/26W/Ness
Hilton Tokoi #3
Job Ticket: 63898 **DST#: 3**
Test Start: 2018.08.08 @ 02:24:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:35:17
Time Test Ended: 08:18:02
Interval: **4422.00 ft (KB) To 4442.00 ft (KB) (TVD)**
Total Depth: 4442.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72 Scott City
Reference Elevations: 2466.00 ft (KB)
2461.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322 **Inside**
Press@RunDepth: 31.36 psig @ 4438.00 ft (KB) Capacity: psig
Start Date: 2018.08.08 End Date: 2018.08.08 Last Calib.: 2018.08.08
Start Time: 02:24:01 End Time: 08:18:02 Time On Btm: 2018.08.08 @ 04:34:47
Time Off Btm: 2018.08.08 @ 06:36:32

TEST COMMENT: I.F. 30 Minutes/ Blow built to 1 inch
I.S.I. 30 Minutes/ No blow back
F.F. 30 Minutes/ Few bubbles at open then dead/ Flush tool/ Surface blow for 3 minutes
F.S.I. 30 Minutes/ No blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.07	113.26	Initial Hydro-static
1	17.17	112.72	Open To Flow (1)
31	21.35	114.79	Shut-In(1)
61	358.73	116.25	End Shut-In(1)
62	24.27	116.94	Open To Flow (2)
91	31.36	118.42	Shut-In(2)
121	218.42	119.09	End Shut-In(2)
122	2184.04	119.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Clean Oil 100%	0.07
15.00	Oil cut Mud/ Oil 5% Mud 95%	0.07

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 63898

Printed: 2018.08.08 @ 09:28:26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

26/17S/26W/Ness



New ton, Kansas
67114+8827
ATTN: Andrew Stenzel

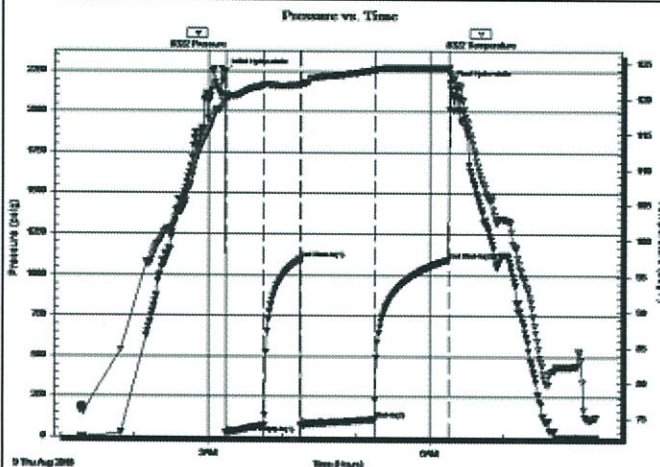
Job Ticket: 63899 **DST#: 4**
Test Start: 2018.08.09 @ 01:16:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:13:32
 Time Test Ended: 08:16:02
 Interval: **4430.00 ft (KB) To 4463.00 ft (KB) (TVD)**
 Total Depth: 4568.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2466.00 ft (KB)
 2461.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8322 Inside
 Press@RunDepth: 108.51 psig @ 4430.00 ft (KB)
 Start Date: 2018.08.09 End Date: 2018.08.09
 Start Time: 01:16:01 End Time: 08:16:02
 Capacity: psig
 Last Calib.: 2018.08.09
 Time On Btrn: 2018.08.09 @ 03:13:02
 Time Off Btrn: 2018.08.09 @ 06:16:32

TEST COMMENT: I.F. 30 Minutes/ Blow built to 6 inches
 I.S.I. 30 Minutes/ No blow back
 F.F. 60 Minutes/ Blow built to 6 inches
 F.S.I. 60 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.00	120.32	Initial Hydro-static
1	23.11	120.04	Open To Flow (1)
32	69.95	121.89	Shut-In(1)
61	1096.42	121.95	End Shut-In(1)
62	73.67	121.92	Open To Flow (2)
122	108.51	124.01	Shut-In(2)
183	1094.11	124.29	End Shut-In(2)
184	2179.51	123.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Muddy Water w/skim oil in pipe	1.85
0.00	Mud 15% Water 85%	0.00

Gas Rates

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

Trilobite Testing, Inc

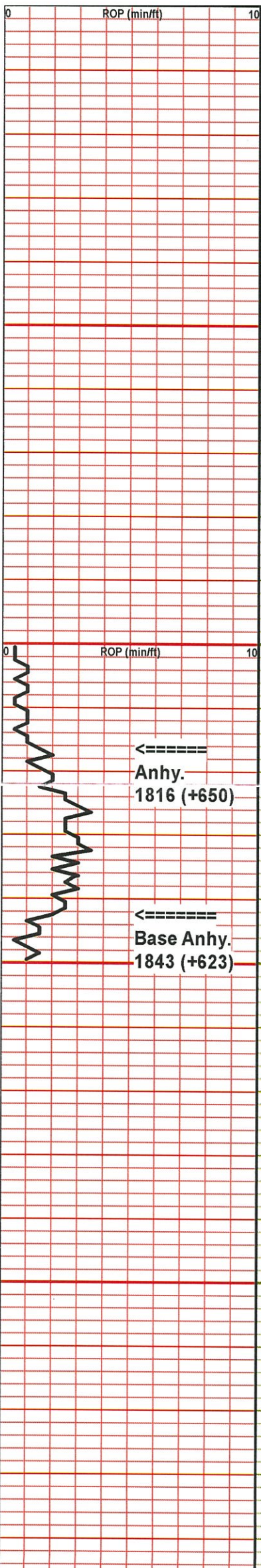
Ref. No: 63899

Printed: 2018.08.09 @ 09:17:30

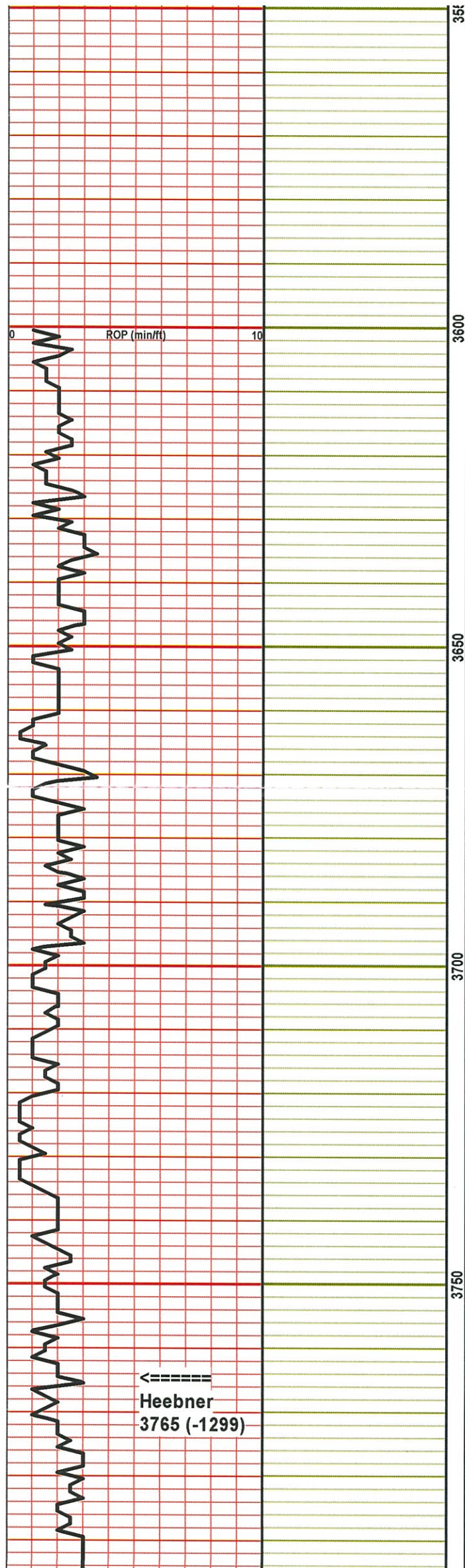
ROCK TYPES

Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Carb shale	Igne	Salt	Sltst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

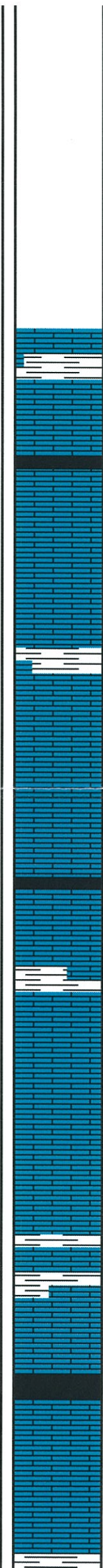
ROP (min/ft)	Misc	% Lithology	Geological Descriptions	DST



33
3350
3400
3450
3500



←-----
Heebner
3765 (-1299)



Ls., crm-lt gy, fn-vfnxn, mod hd, chlky ip, foss, tr chrty nods, nvp, ns, scatt Sh., lt gy-brn

Sh., blk, carb

Ls., lt gy, fnxn, sli fri, chlky, foss ip, pr-fr intrxn por, ns, no odr

Ls., crm-lt gy, fn-vfnxn, mod hd, chlky ip, some w fr intrxn por, ns, no odr, scatt Sh., lt gy-gy

Ls., crm-tn, vfnxn, mod hd-hd, foss ip, chlky ip, nvp, ns

Sh., blk, carb

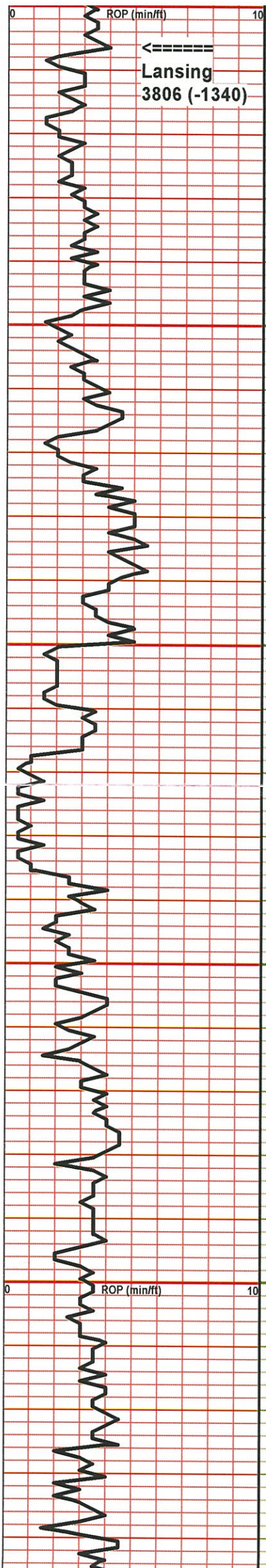
Ls., crm-tn-lt gy, fnxn, sli fri-fri, chlky, foss ip, pr intrxn por, ns, no odr, scatt Sh., gy

Ls., crm-lt gy-tn, fnxn, mod hd-sli fri ip, ool ip, foss, some fr introol & foss por, ns, no odr

Ls., crmp-tn-mottld brn, fnxn, sli fri, chlky ip, foss ip, pr-fr intrxn por, ns, no odr, scatt Sh., gy-brn

Sh., blk, carb

Ls., crm-tn, fnxn, mod hd-sli fri ip, chlky ip, shly ip, few pcs w pr intrxn por, ns, no odr, scatt Sh., gy-brn



381
3850
3900
3950
4000

Sh., gy-brn, Ls, aa, ns, no odr

Ls., crm, fnxln, mod hd, chrty ip, nvp, ns, scatt Chrt., crm-wht, shp

Ls., crm-lt gy, fnxln, mod hd, foss, chlky ip, shly ip, few pcs w vy pr intrxln & ppt por, ns, no odr, scatt Sh., gy-dk gy

Ls., tn-lt gy, fn-vfnxln, mod hd, chrty ip, dns, nvp, ns, scatt Chrt., tn-lt gy, sli weath ip

Ls., crm-tn, vfnxln, mod hd, foss, chlky ip, couple pcs w vy pr intrxln por, ns, no odr, scatt Sh., lt grn-lt gy

Ls., crm-tn, fnxln, sli fri, ool ip, chlky, nvp, ns, scatt Sh., gy-lt grn

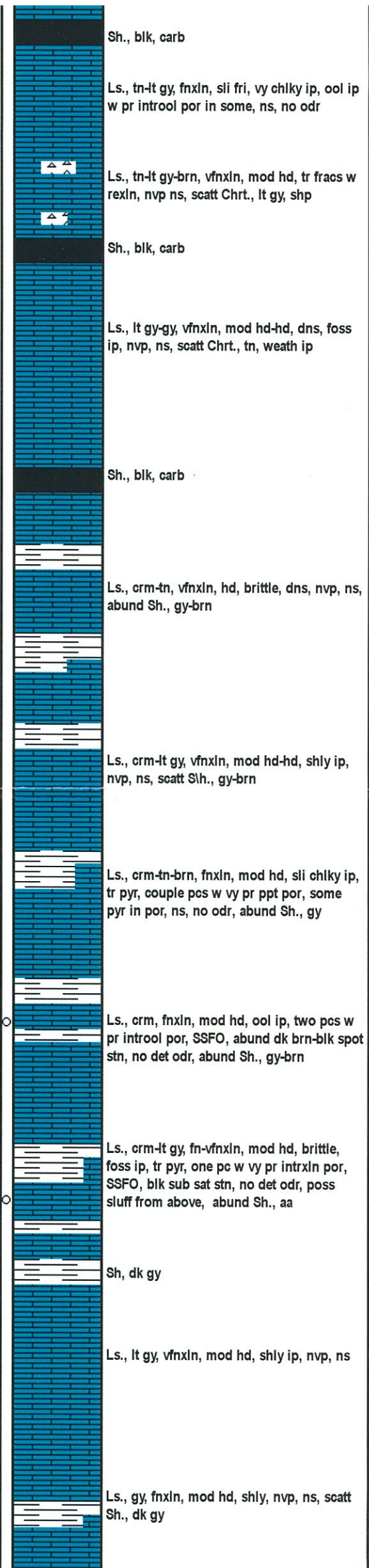
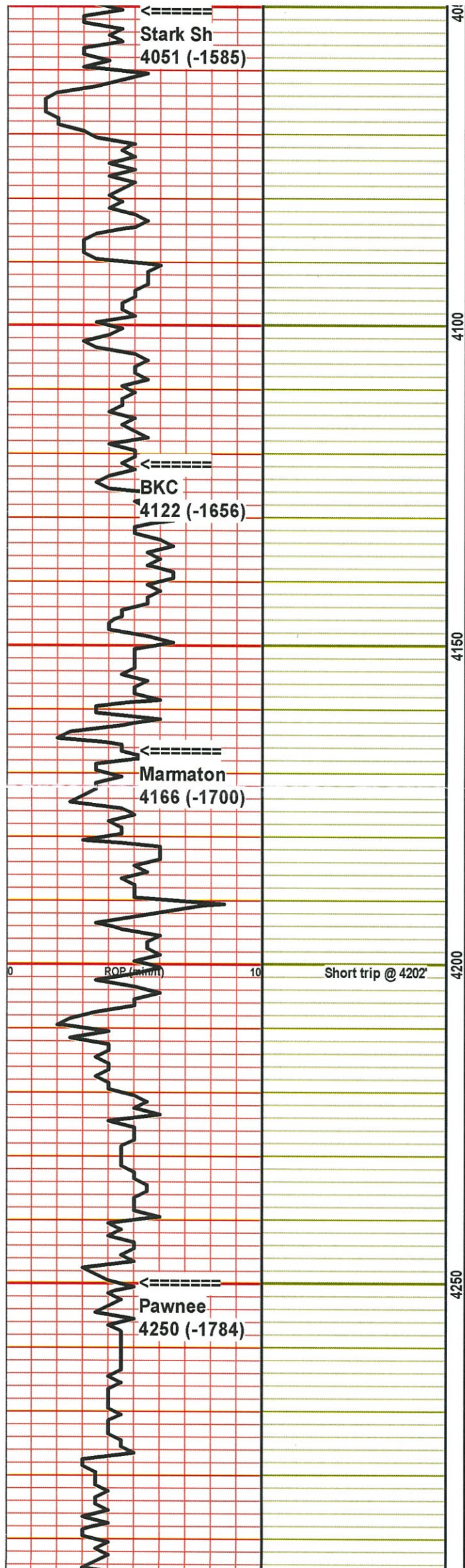
Ls., crm, vfnxln, mod hd-sli fri, ool, fr-gd ooc por, ns, no odr

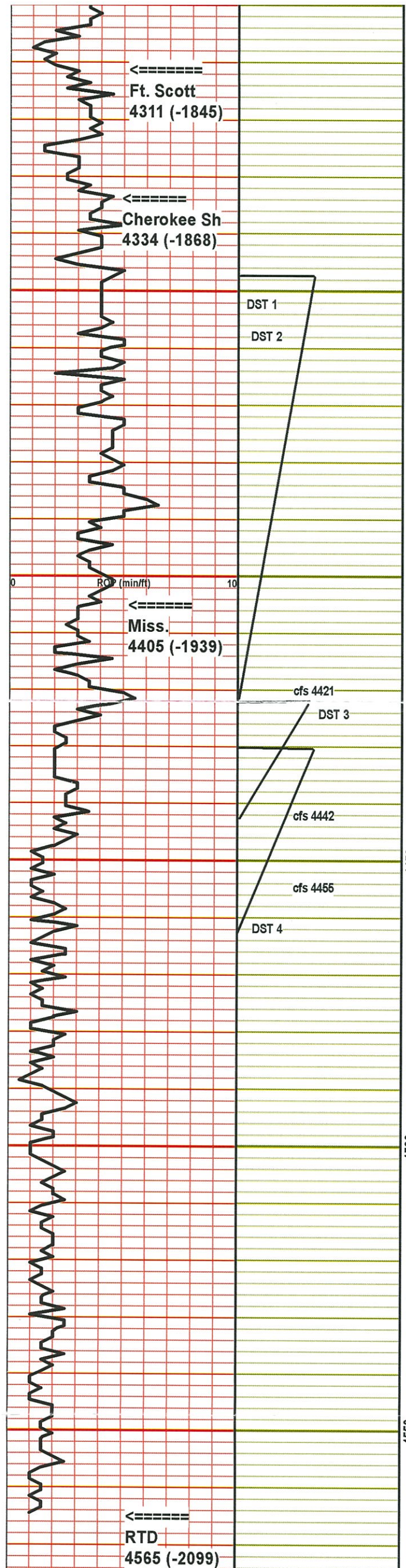
Ls., crm-tn, fnxln, mod hd, ool ip, few pcs w pr-fr ooc por, ns, no odr, scatt Chrt., lt gy, spic, scatt Sh., gy-brn

Ls., crm-lt gy, vfnxln, mod hd, foss ip, couple pcs w pr ppt & iso vug por, ns, no odr, few pcs Chrt., tn-brn, shp, foss

Ls., lt gy, vfnxln, mod hd-hd, tr pyr, foss ip, nvp, ns, abund Chrt., lt gy, shp, foss ip

Ls., crm-tn, fnxln, mod hd-sli fri ip, sli chlky ip, few pcs w small oolites, pr introol por, ns, no odr, scatt Chrt., wht, ool, scatt Sh., gy-brn





43

Sh., blk, carb

Ls., crm-tn, fnxln, mod hd-sli fri ip, foss, sli chiky ip, few pcs w FSFO, lt brn-brn spot stn, wk cup odr

Ls., crm-tn-lt gy, fn-vfnxn, mod hd, ool ip, few pcs w pr-fr intrxn & introol por, couple w pr iso vug por, FSFO, lt brn sub sat stn ip, fr cup odr

Sh., blk, carb

Ls., lt gy, vfnxn, mod hd-hd, dns, foss ip, few chrty nods, couple pcs w vy pr intrxn por, VSSFO, blk res stn, no det odr, abund Sh., dk gy-blk, carb ip

4350

Ls., crm-lt gy, vfn-fnxln, mod hd, ool ip, chiky ip, one pc w pr introol por, blk stn, NSFO, no det odr, abund Sh., gy-brn-lt grn

Ls., tn-lt gy, vfnxn, hd, sli chiky ip, few pcs w vy pr intrxn por, S-FSFO, spot-sub sat dk brn-blk stn, vy wk odr, abund Sh., dk gy

Ls., crm, fnxln, mod hd, chiky, few pcs w pr intrxn & vug por, FSFO, blk heavy stn, fr cup odr, Chrt., crm-tn-yeal, weath, scatt Sh., lt grn-brn-yeal, few pcs SS., wht, fngrn, mod hd, fr sort, sub rnd, abund wht calc cem, occ vy pr vis por, ns

4400

4421 20", Dol, tn-crm-brn, fnxln, mod hd, few pcs dns w no-vy pr vis por, most w pr-fr intrxn & occ pr-fr vug por, FSFO, lt brn-brn sat stn, some blk sub sat, gd show gas, vy gd cup odr, scatt Sh., gy

4421 40", Dol, tn-brn, fnxln, sli fri-mod hd, few sli suc, fr intrxn, vug & spic cast por, GSFO, tr free oil in sample cup, even lt brn-brn sat, few pcs blk spot stn, fr show gas, vy gd cup odr, tr Ls., lt gy, vfnxn, hd, dns, nvp, ns

4442 20", Dol, tn-brn, fnxln, sli fri-mod hd ip, fr-rare pr intrxn & freq fr vug por, GSFO, even brn sat, fr show gas, vy gd cup odr, few pcs Dol, crm, vfnxn, mod hd/firm, pr-no vis por, FSFO ip, spot brn stn, some Ls., crm, chiky, nvp, ns

4442 40", Dol, crm, vfnxn, mod hd-soft, limey ip, many pcs vy soft, chiky, some w vy pr intrxn por, SSFO, lt brn spot stn, some Dol, brn, fnxln, fr intrxn & occ fr vug por, GSFO, even brn stn, sli show gas, fr cup odr, scatt Sh., gy

4450

4455 40", Dol, crm-tn, fnxln, mod hd, some w no-vy pr vis por, ns, many pcs w pr intrxn, occ fr vug & spic cast por, few pcs barren, FSFO in many, lt brn spot stn-sub sat ip, wk cup odr, fr odr on brk, scatt Sh., gy-brn

4455 60", dol, crm, fnxln, mod hd-sli fri ip, fr intrxn, fr-gd vug & occ fr spic cast por, few pcs barren, most w SSFO, lt brn spot stn, wk cup odr, fr odr on brk

Dol., tn, fnxln, mod hd, sli suc ip, fr intrxn por, fr-gd vug & spic cast por, some barren, SSFO, lt brn spot stn, fr cup odr, fr odr on brk

Dol., crm, fnxln, mod hd, few pcs vy soft, chiky, rest w fr-gd vug & spic cast por, many pcs barren, VS-SSFO ip, rare spot brn-blk stn, wk cup odr, wk odr on brk, scatt Chrt., wht-clr, weath ip, scatt Sh., gy

4500

Dol., crm-tn, fnxln, mod hd/firm, tr pyr, few pcs chiky, soft, rest w fr intrxn & vug por, ns, no odr, scatt Chrt., wht-clr, ool ip, sli weath ip

Dol., crm, fnxln, mod hd-sli fri ip, brittle, fr intrxn & vug por, occ fr spic cast por, couple pcs w VSSFO, tr brn spot stn, no cup odr, wk odr on brk, incr chrt., wht-clr, spic ip

4550

Chrt., crm-wht-clr, broken ip, foss ip, nvp, ns, Dol., crm, fnxln, mod hd/firm, fr vug por, ns, no odr, scatt Sh., gy

Chrt & Dol., aa

DST #1 4347-4421

Misrun, tool hit bridge 18 stands in, approx 1100', pulled tool to conditio hole

DST #2 4347-4421

30-30-60-60
 IF: Built to 4 1/2"
 IS: No blow
 FF: Built to 6 1/2"
 FS: No blow

Recovery:
 45' GIP
 76' GO (20%G, 80%O)
 60' OCM (40%O, 60%M)
 —
 135' TF

FP: 21-43; 52-63
 SIP: 938-599
 HP: 2202-2122

BHT: 116
 Gravity: 36
 Chlor: —

DST #3 4422-4442

30-30-30-30
 IF: Built to 1"
 IS: No blow
 FF: few bubbles, flushed tool, WSB 3 min, died
 FS: No blow

Recovery:
 15' CO (100%O)
 15' OCM (5%O, 95%M)
 —
 30' TF

FP: 17-21; 24-31
 SIP: 358-218
 HP: 2215-2184

BHT: 119
 Gravity: —
 Chlor: —

DST #4 4430-4463 (straddle)

30-30-60-60
 IF: Built to 6"
 IS: No blow
 FF: Built to 6"
 FS: No blow

Recovery:
 270' MCW w skim oil (85%W, 15%M)

FP: 23-69; 73-108
 SIP: 1096-1094
 HP: 2244-2179

BHT: 119
 Gravity: —
 Chlor: 25000