

Confidentiality Requested:

Yes  No

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

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

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

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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 4
Doc ID	1467780

Tops

Name	Top	Datum
Anhy.	1770	(+ 674)
Base Anhy.	1799	(+ 645)
Heebner	3727	(-1283)
Lansing	3772	(-1328)
BKC	4082	(-1638)
Marmaton	4126	(-1682)
Pawnee	4211	(-1767)
Ft. Scott	4279	(-1835)
Cherokee Sh.	4303	(-1859)
Miss.	4384	(-1940)
LTD	4490	(-2046)





**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

RECEIVED  
JUL 13 2019

Customer:  
PALAMINO PETROLEUM INC  
4924 SE 84TH ST  
NEWTON, KS 67114-8827

Invoice Date: 7/1/2019  
Invoice #: 0342494  
Lease Name: Hilton Tokoi  
Well #: 4 (New)  
County: Ness  
Job Number: ICT2082

Date/Description	HRS/QTY	Rate	Total
6/22 Surface new well	0.000	0.000	0.00
Cement pump #231	1.000	637.500	637.50
Light Eq Mileage	30.000	1.700	51.00
Heavy Eq Mileage	30.000	3.400	102.00
Ton Mileage	245.000	1.275	312.38
H-325	165.000	17.000	2,805.00

**Total** 3,907.88

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**





**CEMENT TREATMENT REPORT**

Customer:	Palomino Petroleum Inc.	Well:	Hilton Tokoi #4	Ticket:	ICT2082
City, State:		County:	Ness, KS	Date:	6/22/2019
Field Rep:	Johhny	S-T-R:	Sec 26 - Twp7S - R26W	Service:	Cement

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	208 ft
Casing Size:	8.625 in
Casing Depth:	208 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	12 bbls

Slurry	
Weight:	14.7 # / sx
Water / Sx:	6.70 gal / sx
Yield:	1.41 ft <sup>3</sup> / sx
Bbls / Ft.:	0.0735
Depth:	208 ft
Volume:	15.3 bbls
Excess:	120% %
Total Slurry:	33.6 bbls
Total Sacks:	165 sx

Cement Blend		
Product	%	#
Class A	100.0	15510
Gel	2.0	310
CaCl	3.0	465
Metso		
KolSeal		
PhenoSeal		
Salt		

Total **16,285**

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
7:30 PM				Called for job					
9:00 PM				Depart Oakley yard					
10:15 PM				Arrive on locn. Rig drilling 12.25"					
				surface hole from 55' to 208'					
10:20 PM				JSA, discuss moving, spotting & rig-u					
10:30 PM				Move on, spot & rig-up					
11:00 PM				Rig-up complete. Wait on rig					
12:30 AM				TD 12.25" hole					
12:45 AM				Rig TOH w/ DP					
1:15 AM				Start to RIH w/ casing					
1:40 AM				Casing @ setting depth					
1:45 AM		150.0		Circulate & condition hole					
1:57 AM	2.0	100.0	2.0	Pump H2O ahead					
1:59 AM	4.5	350.0	41.0	Mix & pump 165sx cement @ 14.7#					
				Y - 1.41cuft/sk, MW - 6.7g/sk					
2:05 AM				Cement to surface, 38bbl cement away					
2:06 AM	3.5	190.0	12.0	Displ. w/ H2O					
2:11 AM				Shutdown. End Job					
2:15 AM				JSA, discuss rigging down equipment					
2:20 AM				Rig down & move off					
3:00 AM				Depart locn					
				Thanks for calling HIS					
				Note: Circulated approx 15bbl good					
				cement to surface					

CREW		UNIT	SUMMARY		
Cementer:	Scott Green	74	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael Rebarchek	231	3.33333 bpm	197.50 psi	55.00 bbls
Bulk #1:	John Polley	181 / 254			
Bulk #2:	Jesse Jones				



**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

RECEIVED  
JUL 13 2019

Customer:  
PALAMINO PETROLEUM INC  
4924 SE 84TH ST  
NEWTON, KS 67114-8827

Invoice Date: 7/1/2019  
Invoice #: 0342496  
Lease Name: Hilton Tokoi  
Well #: 4  
County: Ness  
Job Number: ICT2103

Date/Description	HRS/QTY	Rate	Total
6/30-Plug to Abandon	0.000	0.000	0.00
Cement Pump 230	1.000	637.500	637.50
Light Eq Mileage	30.000	1.700	51.00
Heavy Eq Mileage	30.000	3.400	102.00
Ton Mileage	368.950	1.275	470.41
H-Plug	275.000	11.050	3,038.75

Net Invoice	4,299.66
Sales Tax:	166.89
<b>Total</b>	<b>4,466.55</b>

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**







**CEMENT TREATMENT REPORT**

Customer: <b>Palomino Petroleum Inc.</b>	Well: <b>Hilton Tokoi #4</b>	Ticket: <b>ICT2103</b>
City, State:	County: <b>Ness, KS</b>	Date: <b>6/30/2019</b>
Field Rep: <b>Johnny</b>	S-T-R: <b>Sec 26 - Twp7S - R26W</b>	Service: <b>Cement</b>

Downhole Information	
Hole Size:	<b>7.875 in</b>
Hole Depth:	<b>4490 ft</b>
Casing Size:	<b>8.625 in</b>
Casing Depth:	<b>208 ft</b>
Tubing / Liner:	<b>in</b>
Depth:	<b>ft</b>
Tool / Packer:	
Depth:	<b>ft</b>
Displacement:	<b>bbbls</b>

Slurry	
Weight:	<b>13.8 # / sx</b>
Water / Sx:	<b>6.89 gal / sx</b>
Yield:	<b>1.42 ft<sup>3</sup> / sx</b>
Bbbls / Ft.:	
Depth:	<b>ft</b>
Volume:	<b>bbbls</b>
Excess:	<b>%</b>
Total Slurry:	<b>bbbls</b>
Total Sacks:	<b>275 sx</b>

Cement Blend		
Product	%	#
Class A	<b>60.0</b>	<b>15510</b>
Gel	<b>4.0</b>	<b>946</b>
CaCl		
Metso		
KolSeal		
PhenoSeal		
Salt		
Fly Ash	<b>40.0</b>	<b>8140</b>
<b>Total</b>		<b>24,596</b>

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
9:00 AM				Called for job	6:00 PM				B/O & L/D Kelly
11:00 AM				Depart Oakley yard	6:39 PM	2.5	50	5.00	Set Plug #5 60' to Surface
1:00 PM				Arrive on locn. Rig laying out DP & drill collars					Mix & pump 20sx slurry @ 13.8ppg Y - 1.42cuft/sk, MW - 6.89g/sk
3:15 PM				RIH to 1850'	6:41 PM	1.5	50	1.00	Pump H2O behind
3:55 PM	7.0	200.0		Rig circ @ 1850'	6:49 PM	2.5	50	7.60	Cement rathole w/30sx slurry @ 13.8ppg Y - 1.42cuft/sk, MW - 6.89g/sk
4:05 PM				Set Plug #1 - 1850' to 1640'					Y - 1.42cuft/sk, MW - 6.89g/sk
4:12 PM	3.0	100.0	5.0	Pump H2O ahead	6:53 PM				Down
4:15 PM	4.7	130.0	12.6	Mix & pump 50sx slurry @ 13.8ppg Y - 1.42cuft/sk, MW - 6.89g/sk	6:55 PM				Wash pumps & lines
4:20 PM	2.5	100.0	2.0	Pump H2O behind	7:15 PM				Rig down & rack up equipment
4:22 PM	8.0	120.0	21.0	Rig displace w/ mud	7:45 PM				Rig down complete
4:25 PM				Rig POH to 1030'	8:00 PM				Depart locn
4:55 PM				Set Plug #2 - 1030' to 695'					
5:00 PM	4.8	140.0	20.2	Mix & pump 80sx slurry @ 13.8ppg Y - 1.42cuft/sk, MW - 6.89g/sk					
5:04 PM	2.5	100.0	10.0	Displace w/ H2O					Thanks for calling Hurricane Services
5:08 PM				Rig POH to 500'					
5:25 PM				Set Plug #3 - 500' to 290'					
5:28 PM	4.6	150.0	12.6	Mix & pump 50sx slurry @ 13.8ppg Y - 1.42cuft/sk, MW - 6.89g/sk					
5:31 PM	2.0	50.0	3.5	Displace w/ H2O					
5:33 PM				Rig POH to 230'					
5:42 PM				Set Plug #4 - 230' to 72'					
5:44 PM	4.0	90.0	10.0	Mix & pump 40sx slurry @ 13.8ppg Y - 1.42cuft/sk, MW - 6.89g/sk					
5:48 PM	2.0	50.0	0.8	Displace w/ H2O					
5:52 PM				Rig POH to surface					

CREW		UNIT	SUMMARY		
Cementer:	<b>Scott Green</b>	<b>74</b>	Average Rate	Average Pressure	Total Fluid
Pump Operator:	<b>Michael Rebarcek</b>	<b>230</b>	3.68571 bpm	98.57 psi	111.30 bbbls
Bulk #1:	<b>Jesse Jones</b>	<b>181 / 254</b>			
Bulk #2:					



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton KS 67114+8827

ATTN: Andrew Stenzel

### **Hilton-Tokoi #4**

#### **26-17S-26W Ness,KS**

Start Date: 2019.06.28 @ 18:55:00

End Date: 2019.06.29 @ 01:34:15

Job Ticket #: 65959                      DST #: 1

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

Printed: 2019.07.02 @ 08:47:24

Palomino Petroleum Inc 26-17S-26W Ness,KS Hilton-Tokoi #4 DST # 1 Mississippi 2019.06.28



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
 4924 SE 84th St  
 Newton KS 67114+8827  
 ATTN: Andrew Stenzel

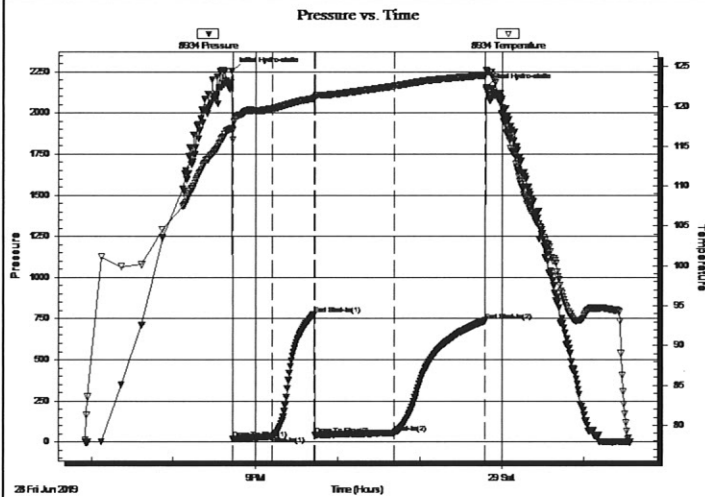
**26-17S-26W Ness, KS**  
**Hilton-Tokoi #4**  
 Job Ticket: 65959      **DST#: 1**  
 Test Start: 2019.06.28 @ 18:55:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:42:45  
 Time Test Ended: 01:34:15  
 Interval: **4383.00 ft (KB) To 4398.00 ft (KB) (TVD)**  
 Total Depth: 4398.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2444.00 ft (KB)  
 2439.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8934**      **Inside**  
 Press@RunDepth: 55.40 psig @ 4384.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.06.28      End Date: 2019.06.29      Last Calib.: 2019.06.29  
 Start Time: 18:55:15      End Time: 01:34:15      Time On Btm: 2019.06.28 @ 20:42:30  
 Time Off Btm: 2019.06.28 @ 23:48:30

TEST COMMENT: 30-IF-Weak; Built to 3"  
 30-ISI-No Return  
 60-FF-Weak; Built to 3&1/2"  
 60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.17	117.24	Initial Hydro-static
1	17.70	115.86	Open To Flow (1)
30	34.10	119.73	Shut-In(1)
60	776.56	121.00	End Shut-In(1)
61	40.14	121.13	Open To Flow (2)
119	55.40	122.55	Shut-In(2)
186	737.66	123.89	End Shut-In(2)
186	2153.82	124.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM 40%O 60%M	0.15
60.00	GO 50%G 50%O	0.30
0.00	30' GIP 100%G	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 #4**  
Job Ticket: 65959      **DST#: 1**  
Test Start: 2019.06.28 @ 18:55:00

### Tool Information

Drill Pipe:	Length: 4266.00 ft	Diameter: 3.82 inches	Volume: 60.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length:            ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased                            ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4383.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4355.00	
Shut In Tool	5.00			4360.00	
Hydraulic tool	5.00			4365.00	
Jars	5.00			4370.00	
Safety Joint	3.00			4373.00	
Packer	5.00			4378.00	29.00      Bottom Of Top Packer
Packer	5.00			4383.00	
Stubb	1.00			4384.00	
Recorder	0.00	8934	Inside	4384.00	
Recorder	0.00	8352	Outside	4384.00	
Perforations	11.00			4395.00	
Bullnose	3.00			4398.00	15.00      Bottom Packers & Anchor

**Total Tool Length: 44.00**



**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 #4**  
Job Ticket: 65959      **DST#: 1**  
Test Start: 2019.06.28 @ 18:55:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4400.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	HOCM 40%O 60%M	0.148
60.00	GO 50%G 50%O	0.295
0.00	30' GIP 100%G	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 2#LCM

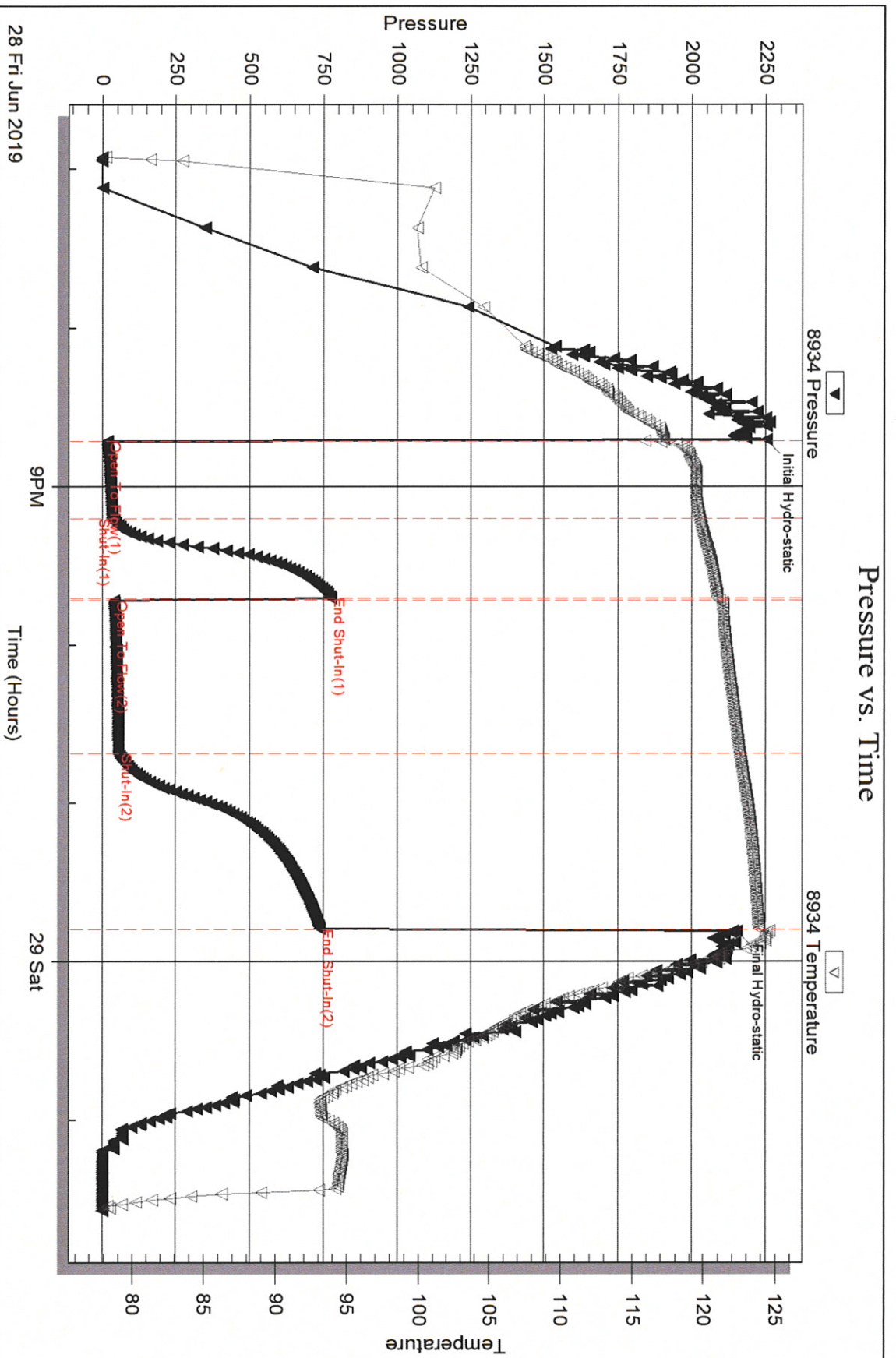
Serial #: 8934

Inside

Palomino Petroleum Inc

Hilton-Tokoi #4

DST Test Number: 1









## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton KS 67114+8827

ATTN: Andrew Stenzel

### **Hilton-Tokoi #4**

#### **26-17S-26W Ness,KS**

Start Date: 2019.06.29 @ 07:53:00

End Date: 2019.06.29 @ 14:20:15

Job Ticket #: 65960                      DST #: 2

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

Printed: 2019.07.02 @ 08:45:41



**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 #4**  
Job Ticket: 65960      **DST#: 2**  
Test Start: 2019.06.29 @ 07:53:00

## GENERAL INFORMATION:

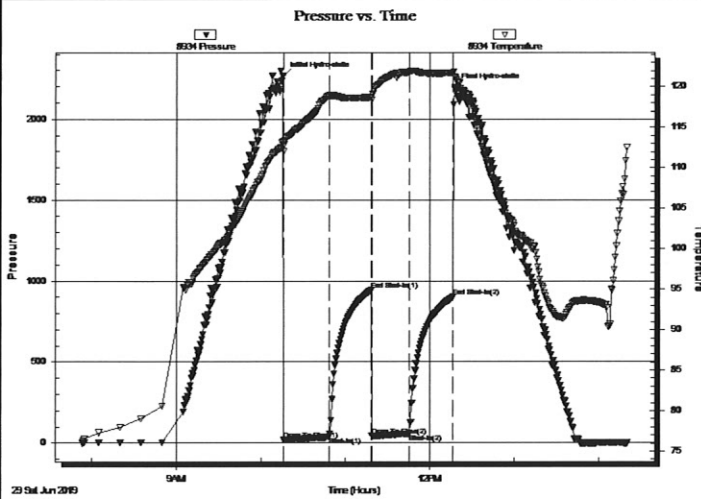
Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:16:00  
Time Test Ended: 14:20:15  
Interval: **4399.00 ft (KB) To 4417.00 ft (KB) (TVD)**  
Total Depth: 4417.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Spencer J Staab  
Unit No: 84  
Reference Elevations: 2444.00 ft (KB)  
2439.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8934

Inside

Press@RunDepth: 57.00 psig @ 4400.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2019.06.29 End Date: 2019.06.29 Last Calib.: 2019.06.29  
Start Time: 07:53:15 End Time: 14:20:15 Time On Btm: 2019.06.29 @ 10:15:45  
Time Off Btm: 2019.06.29 @ 12:17:30

TEST COMMENT: 30-IF-Weak; Built to 2&1/4"  
30-ISI-No Return  
30-FF-Weak; Built to 3/4"; Flushed No Help  
30-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.97	113.32	Initial Hydro-static
1	18.09	111.99	Open To Flow (1)
33	37.07	118.90	Shut-In(1)
63	941.64	118.72	End Shut-In(1)
63	42.44	118.42	Open To Flow (2)
90	57.00	121.85	Shut-In(2)
121	899.87	121.74	End Shut-In(2)
122	2197.00	121.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	OSMW 40%M 60%W	0.34

\* 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  
4924 SE 84th St  
New ton KS 67114+8827  
ATTN: Andrew Stenzel

**26-17S-26W Ness,KS**  
**Hilton-Tokoi #4**  
Job Ticket: 65960      **DST#: 2**  
Test Start: 2019.06.29 @ 07:53:00

### Tool Information

Drill Pipe:	Length: 4260.00 ft	Diameter: 3.82 inches	Volume: 60.39 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4399.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4371.00	
Shut In Tool	5.00			4376.00	
Hydraulic tool	5.00			4381.00	
Jars	5.00			4386.00	
Safety Joint	3.00			4389.00	
Packer	5.00			4394.00	29.00      Bottom Of Top Packer
Packer	5.00			4399.00	
Stubb	1.00			4400.00	
Recorder	0.00	8934	Inside	4400.00	
Recorder	0.00	8352	Outside	4400.00	
Perforations	14.00			4414.00	
Bullnose	3.00			4417.00	18.00      Bottom Packers & Anchor

**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 #4**  
Job Ticket: 65960      **DST#: 2**  
Test Start: 2019.06.29 @ 07:53:00

## 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:	66000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	OSMW 40%M 60%W	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: 2#LCM  
RW=.078@100F

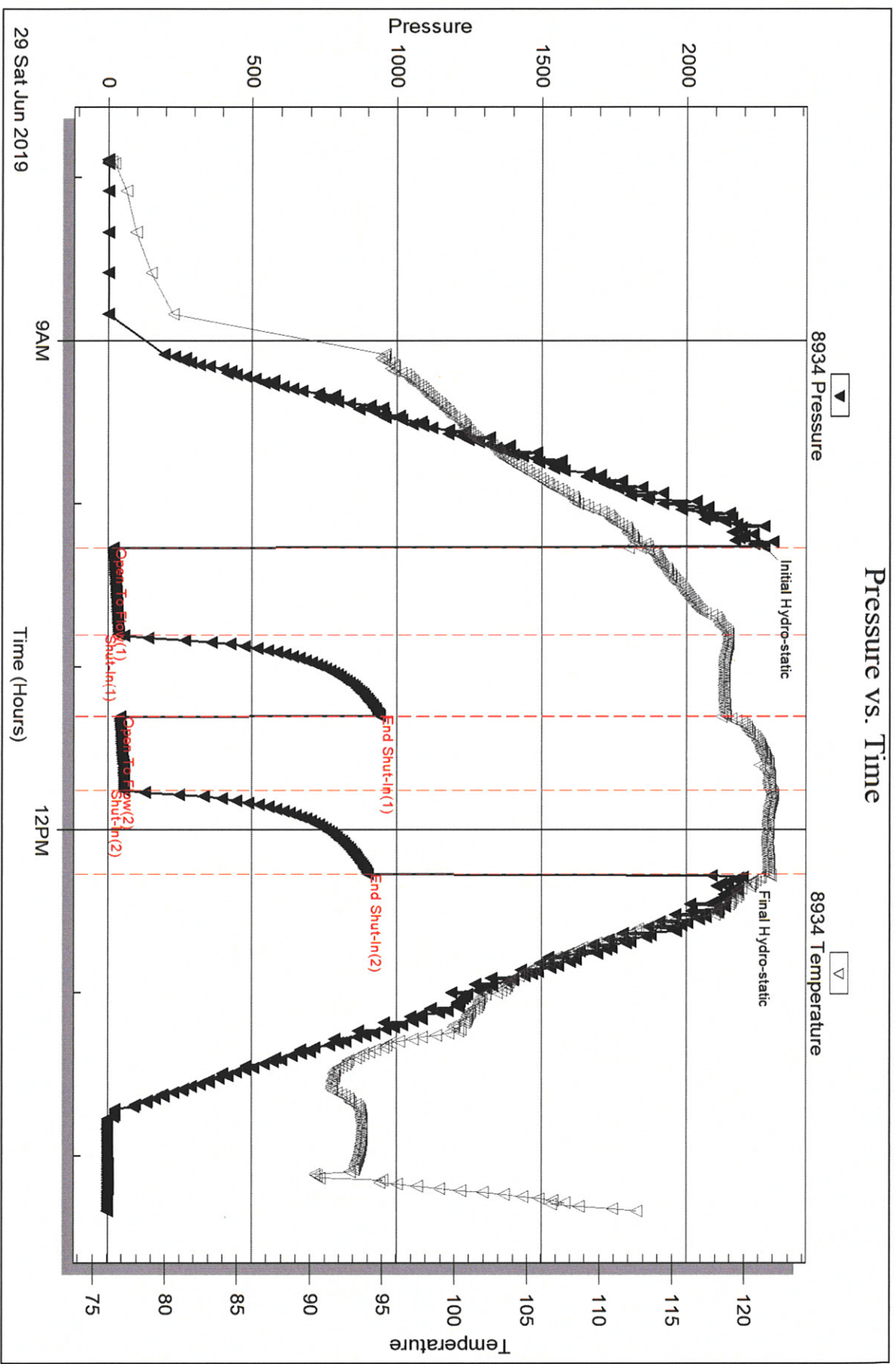
Serial #: 8934

Inside

Palomino Petroleum Inc

Hilton-Tokoi #4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65960

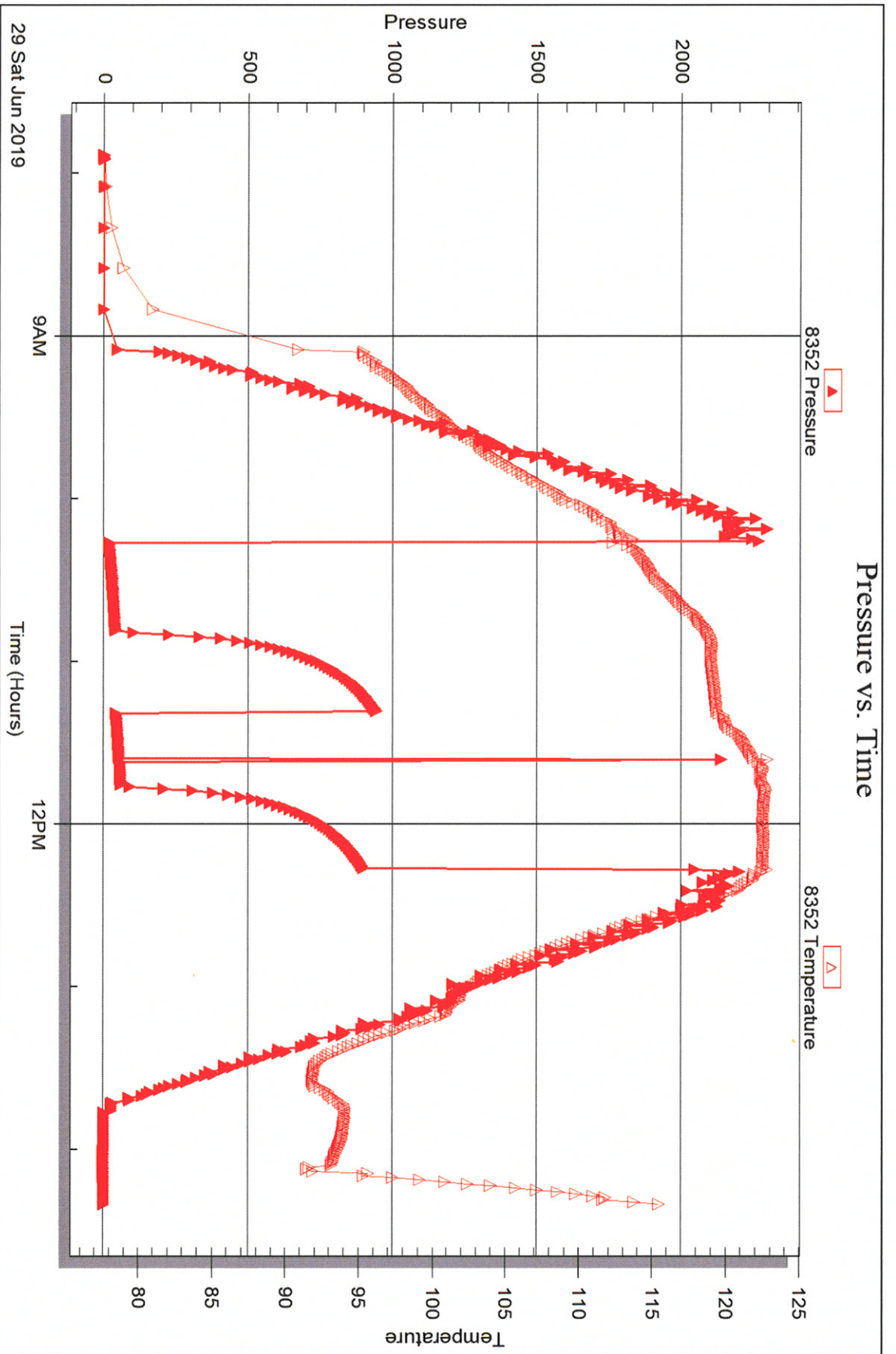
Printed: 2019.07.02 @ 08:45:42

Serial #: 8352

Outside Palomino Petroleum Inc

Hilton-Tokoi #4

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton KS 67114+8827

ATTN: Andrew Stenzel

### **Hilton-Tokoi #4**

### **26-17S-26W Ness,KS**

Start Date: 2019.06.30 @ 02:55:00

End Date: 2019.06.30 @ 09:38:15

Job Ticket #: 65961                      DST #: 3

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2019.07.02 @ 08:43:34

Palomino Petroleum Inc  
26-17S-26W Ness,KS  
Hilton-Tokoi #4  
DST # 3  
Cong  
2019.06.30



**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 #4**  
Job Ticket: 65961      **DST#: 3**  
Test Start: 2019.06.30 @ 02:55:00

## GENERAL INFORMATION:

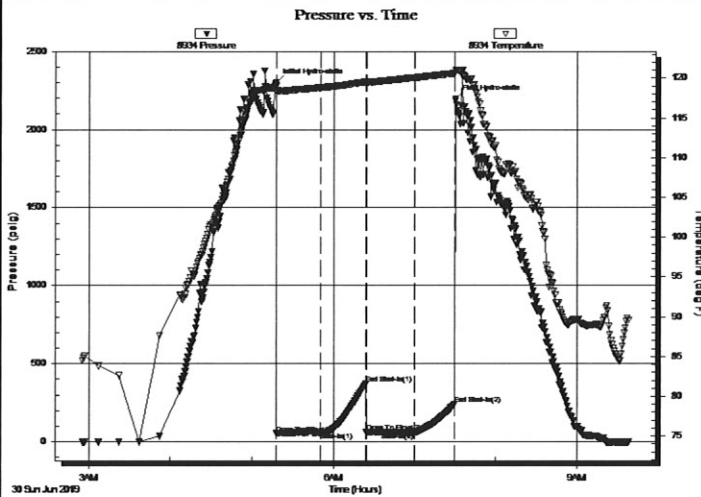
Formation: **Cong**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 05:18:15  
Time Test Ended: 09:38:15  
Interval: **4300.00 ft (KB) To 4387.00 ft (KB) (TVD)**  
Total Depth: 4490.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Straddle (Reset)  
Tester: Spencer J Staab  
Unit No: 84  
Reference Elevations: 2444.00 ft (KB)  
2439.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8934

Inside

Press@RunDepth: 60.70 psig @ 4365.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2019.06.30 End Date: 2019.06.30 Last Calib.: 2019.06.30  
Start Time: 02:55:15 End Time: 09:38:15 Time On Btm: 2019.06.30 @ 05:18:00  
Time Off Btm: 2019.06.30 @ 07:30:30

TEST COMMENT: 30-IF-Weak; Built to 1/2"  
30-ISI-No Return  
30-FF-Weak Surface  
30-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.92	119.02	Initial Hydro-static
1	53.78	118.33	Open To Flow (1)
32	60.71	118.80	Shut-In(1)
66	370.60	119.55	End Shut-In(1)
66	60.99	119.38	Open To Flow (2)
102	60.70	120.07	Shut-In(2)
132	241.48	120.63	End Shut-In(2)
133	2195.99	121.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.10

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

26-17S-26W Ness,KS

4924 SE 84th St  
New ton KS 67114+8827

Hilton-Tokoi #4

Job Ticket: 65961

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2019.06.30 @ 02:55:00

### Tool Information

Drill Pipe:	Length: 4168.00 ft	Diameter: 3.82 inches	Volume: 59.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4300.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	4386.00 ft			
Interval between Packers:	86.00 ft			
Tool Length:	218.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4272.00	
Shut In Tool	5.00			4277.00	
Hydraulic tool	5.00			4282.00	
Jars	5.00			4287.00	
Safety Joint	3.00			4290.00	
Packer	5.00			4295.00	29.00 Bottom Of Top Packer
Packer	5.00			4300.00	
Stubb	1.00			4301.00	
Perforations	1.00			4302.00	
Drill Pipe	62.00			4364.00	
Change Over Sub	1.00			4365.00	
Recorder	0.00	8934	Inside	4365.00	
Recorder	0.00	8352	Outside	4365.00	
Perforations	16.00			4381.00	
Blank Off Sub	1.00			4382.00	
Top S. Packer	4.00			4386.00	86.00 Tool Interval
Packer	0.00			4386.00	
Stubb	1.00			4387.00	
Perforations	3.00			4390.00	
Change Over Sub	1.00			4391.00	
Recorder	0.00	9120	Below	4391.00	
Drill Pipe	94.00			4485.00	
Change Over Sub	1.00			4486.00	
Bullnose	3.00			4489.00	103.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>218.00</b>				



**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 #4**  
Job Ticket: 65961      **DST#: 3**  
Test Start: 2019.06.30 @ 02:55:00

### 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSM 100%M	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: 2#LCM

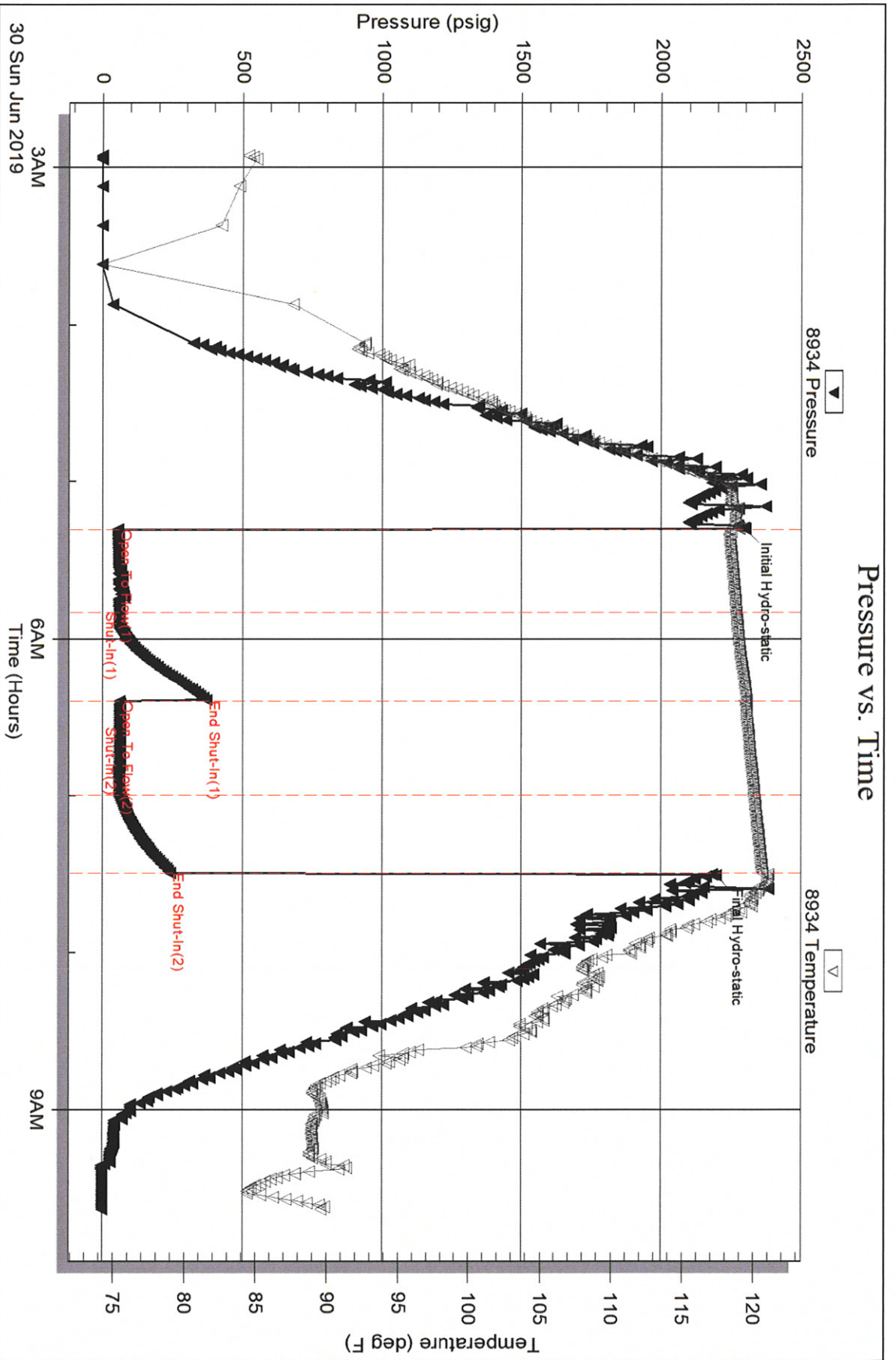
Serial #: 8934

Inside

Palomino Petroleum Inc

Hilton-Tokoi #4

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65961

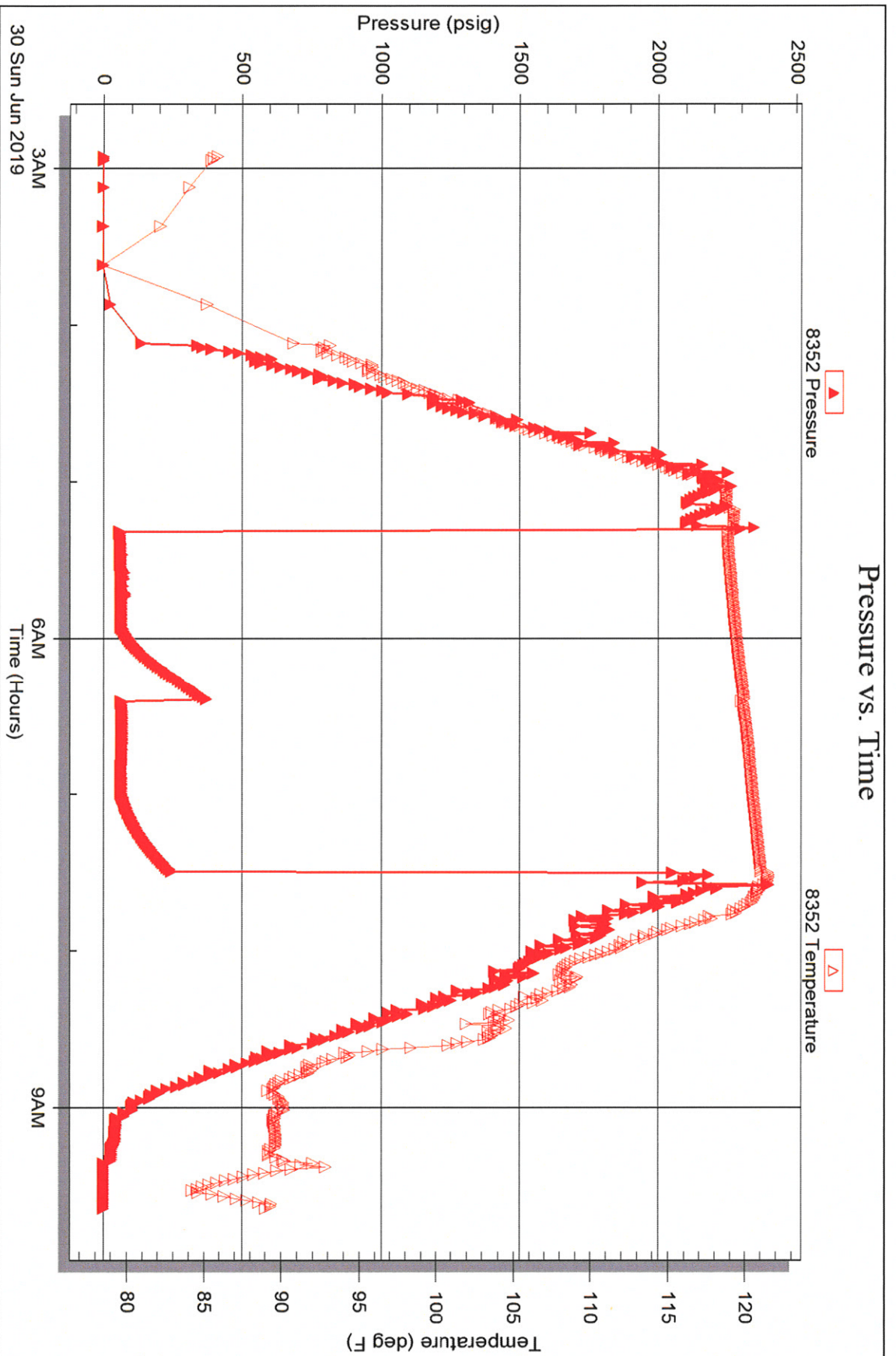
Printed: 2019.07.02 @ 08:43:35

Serial #: 8352

Outside Palomino Petroleum Inc

Hilton-Tokoi #4

DST Test Number: 3



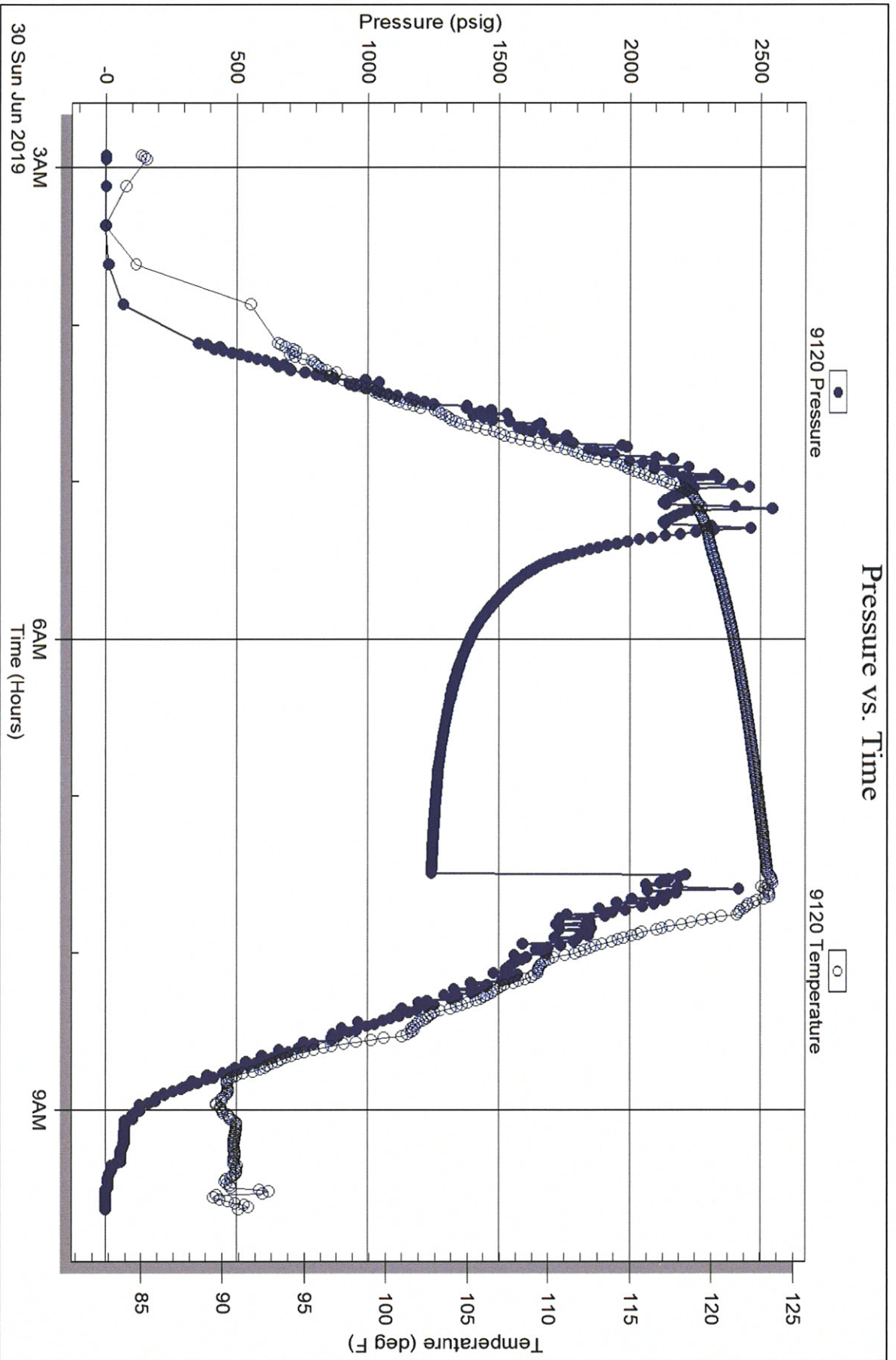


Serial #: 9120

Below (Strat) Petrodecum Inc

Hilton-Tokoi #4

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 65959

NO.

Well Name & No. Hilton - 7okin #4 Test No. 1 Date 06/28/2019  
 Company Palominos Petroleum Inc Elevation 2444 KB 2439 GL  
 Address 4924 SE 84th St Newton KS 67114 +8827  
 Co. Rep / Geo. Andrew Stempel Rig W9W#2  
 Location: Sec. 26 Twp 17 Rge. 26 Co. Wes State KS

Interval Tested 4383' - 4398 Zone Tested Mississippi  
 Anchor Length 15' Drill Pipe Run 4266 Mud Wt. 9.3  
 Top Packer Depth 4378' Drill Collars Run 118' Vis 56  
 Bottom Packer Depth 4383' Wt. Pipe Run - WL 8.0  
 Total Depth 4398' Chlorides 4400 ppm System LCM 2H

Blow Description 17-9 Weak; Built to 3"  
ISA - No Return  
47-9 Weak; Built to 3 1/2"  
75I - No Return

Rec	Feet of	%gas	%oil	%water	%mud
30'	HOCM	40		60	
60'	GO	50	50		
	30' GTP	100			

Rec Total 90' BHT 1240 Gravity 41° API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2254  Test 1300 T-On Location 18:22  
 (B) First Initial Flow 17  Jars 250 T-Started 18:55  
 (C) First Final Flow 34  Safety Joint 75 T-Open 20:40  
 (D) Initial Shut-In 776  Circ Sub \_\_\_\_\_ T-Pulled 23:40  
 (E) Second Initial Flow 40  Hourly Standby \_\_\_\_\_ T-Out 01:33 06/29/2019  
 (F) Second Final Flow 55  Mileage 17627 110 Comments \_\_\_\_\_  
 (G) Final Shut-In 737  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2153  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  EM Tool \_\_\_\_\_  
 Initial Shut-In 30  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 60  Ruined Packer \_\_\_\_\_  
 Final Shut-In 60  Extra Copies \_\_\_\_\_  
 Sub Total 0 Total 1735  
 Sub Total 1735 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative James J. Seal Thanks!  
 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.

785-259-0056



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 65960

NO.

Well Name & No. Hilton-Tokio #4 Test No. 2 Date 06/29/2019  
 Company Palomino Petroleum Inc Elevation 2444 KB 2439 GL  
 Address 4924 SE 84th ST Newton KS 67114 + 8827  
 Co. Rep / Geo. Andrew Stenzel Rig WW #2  
 Location: Sec. 26 Twp 17 S Rge. 26 W Co. Ness State KS

Interval Tested 4399' - 4417' Zone Tested Mississippi  
 Anchor Length 18' Drill Pipe Run 4260 Mud Wt. 9.35  
 Top Packer Depth 4394' Drill Collars Run 118' Vis 58  
 Bottom Packer Depth 4399' Wt. Pipe Run - WL 8.6  
 Total Depth 4417' Chlorides 6000 ppm System LCM 2#

Blow Description IF - Weak; Built to 2 1/4"  
IST - No Return  
EF - Weak; Built to 3/4"; Flushed no help  
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>70'</u>	<u>OSM W</u>			<u>60</u>	<u>40</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 70' BHT 121° Gravity - API RW 0.78 @ 100° F Chlorides 66000 ppm

(A) Initial Hydrostatic <u>2269</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>07:30</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>07:53</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:15</u>
(D) Initial Shut-In <u>941</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>12:15</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:19</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>176 RT</u> 110	Comments
(G) Final Shut-In <u>899</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2197</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1735</u>	Total <u>1735</u>

Approved By \_\_\_\_\_ Our Representative Spencer J. Stahl *Thanks!*

Triobite 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.

785-259-0056



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 65961

NO.

Well Name & No. Hilton - Tokio #4 Test No. 3 Date 06/30/2019  
 Company Palomino Petroleum Elevation 2444 KB 2439 GL  
 Address 4924 SE 847h 57 Newton Ks 67114 +8827  
 Co. Rep / Geo. Andrew Stempel Rig 9W9W #2  
 Location: Sec. 26 Twp 17s Rge. 26w Co. 9ess State Ks

Interval Tested 4300' - 4387' Zone Tested Cong.  
 Anchor Length 87' 103' tail Drill Pipe Run 4168' Mud Wt. 9.35  
 Top Packer Depth 4300' Drill Collars Run 118 Vis 56  
 Bottom Packer Depth 4387' Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 4490' Chlorides 5000 ppm System LCM 2#

Blow Description 77- Wash; Built to 1/2"  
75D - No Return  
77 - Wash Surface  
75D - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>OSM</u>			<u>100%</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 20' BHT 120° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2298</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>02:20</u>
(B) First Initial Flow <u>53</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>02:55</u>
(C) First Final Flow <u>60</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:15</u>
(D) Initial Shut-In <u>370</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>07:15</u>
(E) Second Initial Flow <u>60</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>09:35</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>17627</u> 110	Comments _____
(G) Final Shut-In <u>241</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2195</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	

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

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

Sub Total 2335

EM Tool \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer 320  
 Extra Copies \_\_\_\_\_

Sub Total 320  
 Total 2655  
 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.



Home  
(785) 798-3400

# Andrew Stenzel Geologist

Ness City, Kansas



Cell  
(785) 798-5977

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

Well Name: Hilton Tokoi #4  
API: 15-135-26072  
Location: SW-SW-SW-SW Sec. 26-17S-26W (Ness County)  
License Number: 30742  
Spud Date: 6/22/19  
Surface Coordinates: 480' FSL & 356' FWL  
Region: KANSAS  
Drilling Completed: 6/30/19

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2439  
Logged Interval (ft): 3600 To: TD  
Formation: MISSISSIPPI  
Type of Drilling Fluid: Mud-Co Chemical  
K.B. Elevation (ft): 2444  
Total Depth (ft): 4490

Printed by MudLog 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:

6/22/19 MIRU, ran surface casing  
6/23/19 Waiting on cement  
6/24/19 Drilling @ 1820'  
6/25/19 Drilling @ 2810'  
6/26/19 Drilling @ 3530'  
6/27/19 Drilling @ 3930'  
6/28/19 Circulating @ 4313'  
6/29/19 DST #1, DST #2  
6/30/19 Ran electric logs, DST #3, Plugged & Abandoned

### Services

RIG: Murfin Drilling Co, DBA WW Drilling (Rig #2)

MUD: MUDCO

LOGS: Gemini Wireline: DIL, CNDL, PE, ML

### Casing Record

SURFACE Casing: Ran 5 jts new 23#, 8 5/8" casing set at 208'

PRODUCTION Casing: None

### Formation Tops

#### Sample Tops

Anhy.	1771 (+673)
Base Anhy.	1804 (+640)
Heebner	3731 (-1287)
Lansing	3773 (-1329)
BKC	4086 (-1642)
Marmaton	4127 (-1683)
Pawnee	4212 (-1786)
Ft. Scott	4280 (-1836)
Cher. Sh.	4303 (-1859)
Miss.	4382 (-1938)
RTD	4490 (-2046)

#### Log Tops

Anhy.	1770 (+674)
Base Anhy.	1799 (+645)
Heebner	3727 (-1283)
Lansing	3772 (-1328)
BKC	4082 (-1638)
Marmaton	4126 (-1682)
Pawnee	4211 (-1767)
Ft. Scott	4279 (-1835)
Cher. Sh.	4303 (-1859)
Miss.	4384 (-1940)
LTD	4490 (-2046)



**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 #4**

Job Ticket: 65959 **DST#: 1**

Test Start: 2019.06.28 @ 18:55:00

### GENERAL INFORMATION:

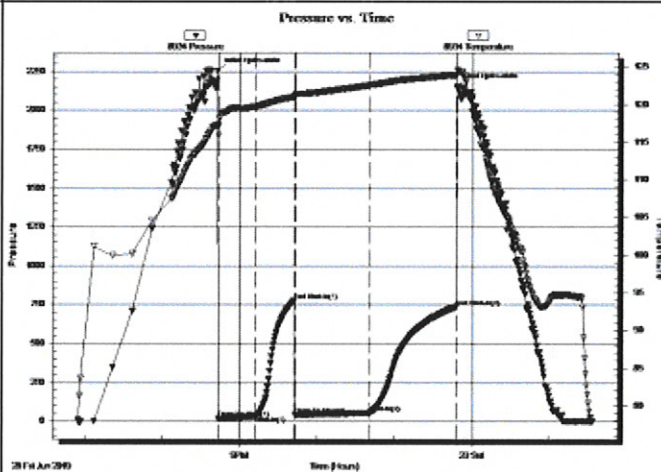
Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:42:45  
Time Test Ended: 01:34:15  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Spencer J Staab  
Unit No: 84  
Interval: **4383.00 ft (KB) To 4398.00 ft (KB) (TVD)**  
Reference Elevations: 2444.00 ft (KB)  
Total Depth: 4398.00 ft (KB) (TVD) 2439.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

### Serial #: 8934

Inside

Press@RunDepth: 55.40 psig @ 4384.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2019.06.28 End Date: 2019.06.29 Last Calib.: 2019.06.29  
Start Time: 18:55:15 End Time: 01:34:15 Time On Btm: 2019.06.28 @ 20:42:30  
Time Off Btm: 2019.06.28 @ 23:48:30

TEST COMMENT: 30-IF-Weak; Built to 3"  
30-ISI-No Return  
60-FF-Weak; Built to 3&1/2"  
60-FSI-No Return



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.17	117.24	Initial Hydro-static
1	17.70	115.86	Open To Flow (1)
30	34.10	119.73	Shut-In(1)
60	776.56	121.00	End Shut-In(1)
61	40.14	121.13	Open To Flow (2)
119	55.40	122.55	Shut-In(2)
186	737.66	123.89	End Shut-In(2)
186	2153.82	124.55	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM 40%O 60%M	0.15
60.00	GO 50%G 50%O	0.30
0.00	30' GIP 100%G	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  
 Newton KS 67114+8827  
 ATTN: Andrew Stenzel

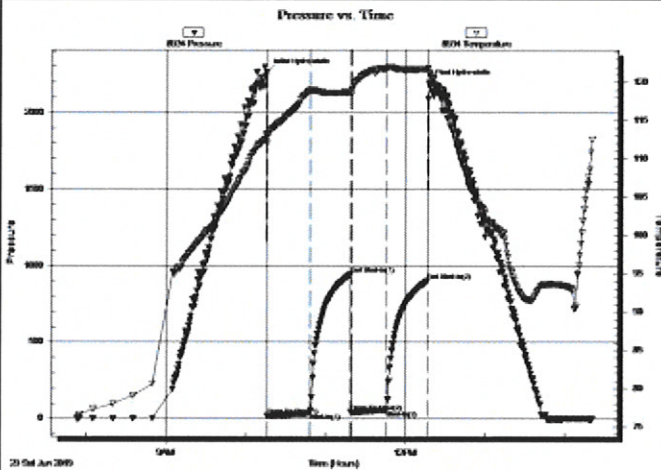
**26-17S-26W Ness,KS**  
**Hilton-Tokoi #4**  
 Job Ticket: 65960 **DST#: 2**  
 Test Start: 2019.06.29 @ 07:53:00

### GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:16:00  
 Time Test Ended: 14:20:15  
 Interval: **4399.00 ft (KB) To 4417.00 ft (KB) (TVD)**  
 Total Depth: 4417.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2444.00 ft (KB)  
 2439.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8934 Inside**  
 Press@RunDepth: 57.00 psig @ 4400.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.06.29 End Date: 2019.06.29 Last Calib.: 2019.06.29  
 Start Time: 07:53:15 End Time: 14:20:15 Time On Btm: 2019.06.29 @ 10:15:45  
 Time Off Btm: 2019.06.29 @ 12:17:30

**TEST COMMENT:** 30-IF-Weak; Built to 2&1/4"  
 30-ISI-No Return  
 30-FF-Weak; Built to 3/4"; Flushed No Help  
 30-FSI-No Return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.97	113.32	Initial Hydro-static
1	18.09	111.99	Open To Flow (1)
33	37.07	118.90	Shut-In(1)
63	941.64	118.72	End Shut-In(1)
63	42.44	118.42	Open To Flow (2)
90	57.00	121.85	Shut-In(2)
121	899.87	121.74	End Shut-In(2)
122	2197.00	121.18	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
70.00	OSMW 40%M 60%W	0.34

\* 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+8827  
 ATTN: Andrew Stenzel

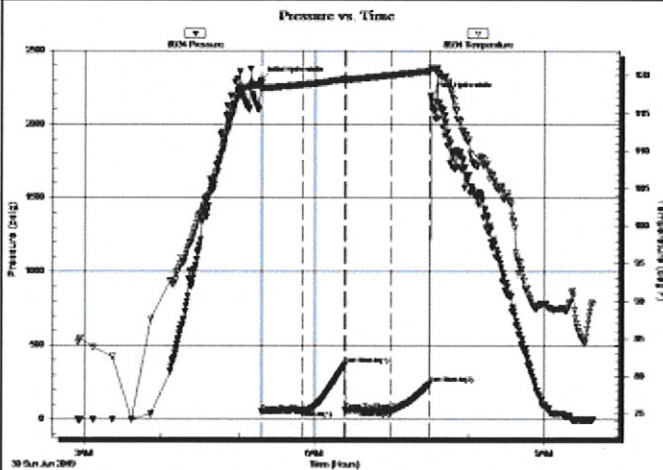
**26-17S-26W Ness,KS**  
**Hilton-Tokoi #4**  
 Job Ticket: 65961 **DST#: 3**  
 Test Start: 2019.06.30 @ 02:55:00

## GENERAL INFORMATION:

Formation: **Cong**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:18:15  
 Time Test Ended: 09:38:15  
 Interval: **4300.00 ft (KB) To 4387.00 ft (KB) (TVD)**  
 Total Depth: 4490.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2444.00 ft (KB)  
 2439.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8934 Inside**  
 Press@RunDepth: 60.70 psig @ 4365.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.06.30 End Date: 2019.06.30 Last Calib.: 2019.06.30  
 Start Time: 02:55:15 End Time: 09:38:15 Time On Btm: 2019.06.30 @ 05:18:00  
 Time Off Btm: 2019.06.30 @ 07:30:30

**TEST COMMENT:** 30-IF-Weak; Built to 1/2"  
 30-ISI-No Return  
 30-FF-Weak Surface  
 30-FSI-No Return



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.92	119.02	Initial Hydro-static
1	53.78	118.33	Open To Flow (1)
32	60.71	118.80	Shut-In(1)
66	370.60	119.55	End Shut-In(1)
66	60.99	119.38	Open To Flow (2)
102	60.70	120.07	Shut-In(2)
132	241.48	120.63	End Shut-In(2)
133	2195.99	121.01	Final Hydro-static

## Recovery

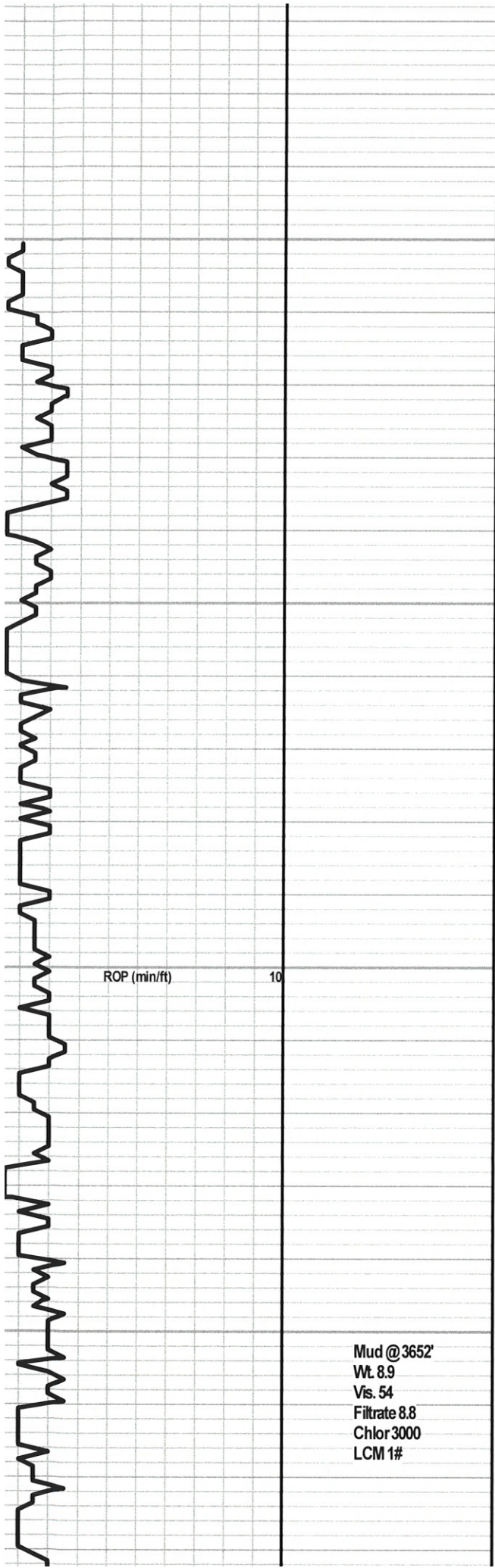
Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.10

\* Recovery from multiple tests

## Gas Rates

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





3500

3550

3600

3650

Ls., tn-lt gy, fnxln, mod hd-sli soft, silty ip, foss, few pcs w pr intrxn & foss por, ns, no odr, few pcs Sh., gy

Ls., cm-tn, fnxln, soft-mod hd ip, most vy chlky, few pcs dns, foss, nvp, ns

Ls., aa, incr amt chlky, few pcs w pr intrxn por, ns, no odr, scatt Sh., gy-dk gy

Ls. cm-tn-mottd bm, soft, vy chlky, foss, ool ip, few pcs w pr introol & intrxn por, ns, no odr, scatt Sh., lt gm-lt gy

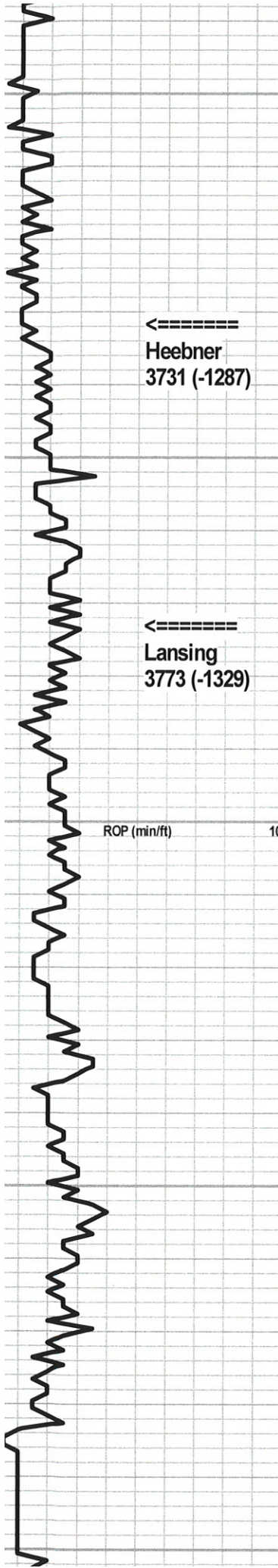
Ls., tn, fn-vfnxln, mod hd, ool ip, dns, nvp, ns, no odr

Ls., tn-lt gy, fnxln, mod soft-soft, chlky ip, ool, few w fr introol por, ns, no odr

Ls., aa, scatt Sh., blk, carb, soft

Ls., cm-tn, fnxln, mod soft-soft, chlky, ool, foss

Mud @ 3652'  
 Wt. 8.9  
 Vis. 54  
 Filtrate 8.8  
 Chlor 3000  
 LCM 1#



3700  
3750  
3800  
3850  
3900

Ls., cm-tn-lt gy, vfn-fnxln, vy soft, vy chlky, nvp, ns, scatt Sh., gy

Sh., blk, carb

Ls., cm, fn-vfnxn, mod hd, foss ip, few pcs w pr foss & rare intrxn por, ns, no odr, abund Sh., lt gy-bm

Sh., gy-bm, soft ip, Ls., aa

Ls., cm, vfnxn, mod hd, fri/brittle ip, few pcs foss, nvp, ns, abund Chr., lt gy, foss, shp/fresh, nvp, ns

Ls., cm-lt gy, fnxn, mod hd, tr pyr, couple pcs w vy pr intrxn por, one w vy spot blk edge stn, wk fluoro, no det odr

Sh., gy-bm, soft, pyr ip

Ls., cm, fn-vfnxn, mod hd, dns, sli fri/brittle, tr rexln, nvp, ns, scatt Chr., bm, shp

Ls., cm-tn, fnxn, mod hd-sli soft ip, chlky ip, few pcs w pr intrxn por, ns, no odr, scatt Sh., bm-gy

Ls., cm, fnxn, mod hd-sli soft, chlky ip, ool ip, pr introol & ooc por, ns, abund Chr., cm-tn.

Mud @ 3975'  
Wt. 8.9  
Vis. 52  
Filtrate 10.0  
Chlor 4000  
LCM 2#

ROP (min/ft) 10

←  
BKC  
4086 (-1642)

3950

Sh., gy-blk, carb ip

Ls., cm-tn, fnxn, mod hd-hd, dns, few pcs  
chky, nvp, ns, scatt Sh., gy

Sh., gy, fiss

Ls., cm, fn-vfnxn, mod hd, chky ip, ool ip, few  
pcs w vy pr intrxn por, ns, no odr, scatt Chrt.,  
cm, shp

4000

Sh., gy-bm, Ls., cm, fn-vfnxn, mod hd, sli  
chky, fri/brittle ip, few pcs w vy pr intrxn por, ns,  
no odr, abund Chrt., cm-tn, weath ip, nvp, ns

Sh., gy-blk, carb ip

Ls., cm-lt gy, vfnxn, sli soft-mod hd, chky ip,  
few pcs w vy pr intrxn por, ns, no odr

Ls., cm-tn, fn-vfnxn, mod hd, fri/brittle,  
foss/ool ip, nvp, ns, scatt Chrt., tn, sli weath

4050

Sh., blk, carb

Ls., tn-lt gy-bm, vfnxn, mod hd, ool ip, tr rexln,  
nvp, ns, scatt Chrt., tn-lt gy, sli weath, nvp, ns

Sh., blk, carb

4100

Sh., lt gm-gm-gy, vy soft/clayey, Ls., cm-tn,  
vfnxn, mod hd-mod soft, chky ip, nvp, ns

Sh., blk, carb, Ls., tn, vfnxn, mod hd-hd, ool ip,

Marmaton  
4127 (-1683)

ROP (min/ft)

10

Pawnee  
4212 (-1768)

Ft. Scott  
4280 (-1836)

Cherokee Sh.  
4303 (-1859)

DST 3

Mud @ 4313'  
Wt. 9.3  
Vis. 56  
Filtrate 8.0  
Chlor 4400  
LCM 2#

4150

4200

4250

4300

Sh., lt gm-bm, soft, clayey, Ls., cm, vfnxn, hd, dns, nvp, ns, few pcs soft, chky, nvp, ns

Ls., cm-lt gy, vfnxn, mod hd-hd, shly, tr rexln, couple pcs w vy wk bm edge stn, wk cut, NSFO, no det odr; scatt Sh., gy-bm

Ls., tn-lt gy, vfn-fnxln, mod hd, shly ip, few pcs w vy pr intrxn por; ns, no odr or cut

Ls., cm-lt gy, most vfnxn, mod hd-hd, fri/brittle, dns, nvp, ns, few pcs cm, sli chky ip, pr intrxn por; VS-SSFO, blk flaky stn & few w bm stn, wk cut, no det odr

Ls., lt gy, vfnxn, chky, nvp, ns, no odr; scatt Sh., gy-dk gy

Ls., lt gy, vfnxn, mod hd, sli chky, nvp, ns

Ls., lt gy-gy, vfnxn, mod hd, shly ip, nvp, ns, scatt Sh., gy

Ls., aa, scatt Sh., dk gy

Sh., blk, carb

Ls., cm-tn, fnxn, mod hd-hd, foss ip, few pcs w pr intrxn & occ pr small vug por; FSFO, vy lt bm stn, sli show gas, fr odr

Sh., blk, carb

Ls., cm-tn, fn-vfnxn, mod hd, chky ip, ool ip, nvp, ns, scatt Sh., gy, fss

Ls., cm, fnxn, mod hd, scatt pcs w blk tar stn, SSFO, vy wk odr; scatt Sh., gy-dk gy

DST #3 4300-4387  
(Cherokee)

30-30-30-30  
IF: WB, built to 1/2"  
IS: No blow  
FF: WSB  
FS: No Blow

Recovery:  
20' OSM (100%M)

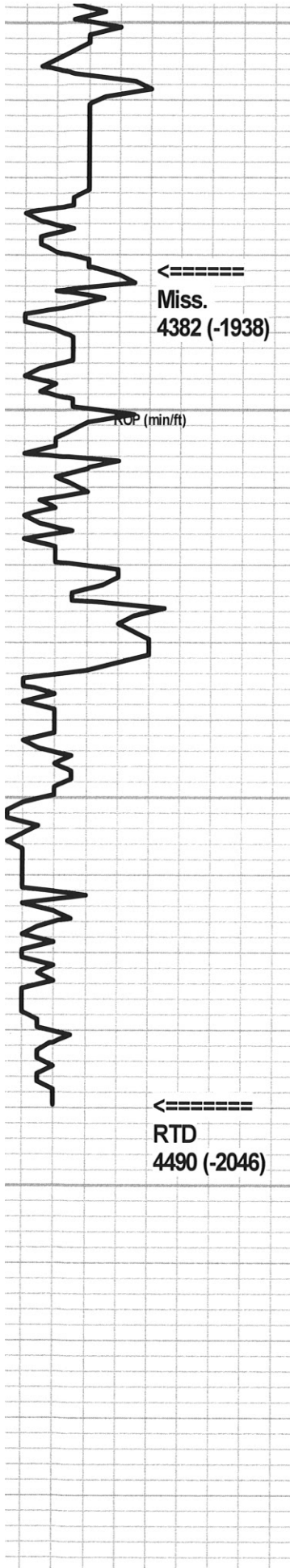
FP: 54-60; 61-61  
SIP: 371-241  
HP: 2299-2196

BHT: 120 Deg F  
Gravity: --  
Chlor: -----

DST #1 4383-4398  
(Mississippi)

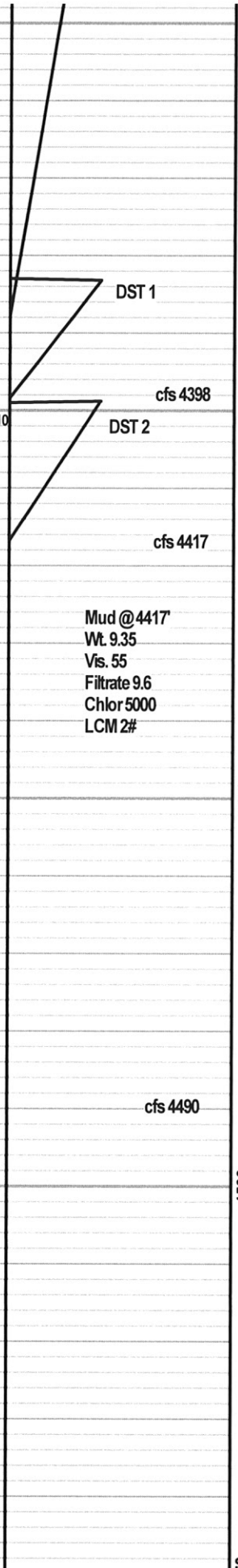
30-30-60-60  
IF: WB, built to 3"  
IS: No blow  
FF: WB, built to 3 1/2"  
FS: No blow

Recovery:



Miss.  
4382 (-1938)

RTD  
4490 (-2046)



DST 1

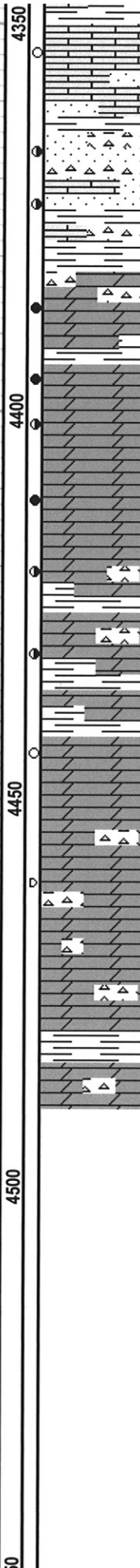
DST 2

cfs 4398

cfs 4417

Mud @ 4417  
Wt. 9.35  
Vis. 55  
Filtrate 9.6  
Chlor 5000  
LCM 2#

cfs 4490



por, SSFO, blk tar stn, no det odr, scatt Sh., gy-bm, scatt SS, fngrm, pr sort, vy shly, nvp, ns

Ls., aa, decr shows, Sh., gy-brn-gm, scatt SS, fn gm, chrt, pr intrgran por, blk sat, FSFO some sli dead oil, fr show gas, some free oil in cup, fr odr, scatt Chrt, yel-tn, weath

Chrt, tn-yel-wht, weath, trip, few pcs w pr vis por, SSFO, blk stn, SS., aa, pr intrgran por, FSFO, some sli dead oil, blk sat, fr odr, scatt Sh., gy-bm-gm

Dol., tn, vfnxn, mod hd, pr intrxn & vug por, GSFO, lt brn stn, scatt Sh., aa, scatt Chrt, crm-yel, weath ip, pr intrgran por, SSFO, dk brn stn, fr odr

Dol., tn-crm, fnxn, mod hd-soft ip, chky ip, most w fr vug & pr-fr intrxn & spic cast por, GSFO, lt brn sat, fr show gas, some free oil in cup, exc odr, scatt Sh., gy

Dol., crm, vfnxn, soft, chky, Dol., tn, fn-vfnxn, mod hd, pr-occ fr intrxn & vug por, FSFO, dk brn spot stn, gd odr

Dol., tn, fnxn, mod hd-sli soft, fr intrxn & vug por, GSFO, brn spot stn, tr free oil in tray, gd odr, few pcs decr shows in 60 min sample

Dol., crm, vfnxn, soft, chky, Dol., tn, vfnxn-fnxn, mod hd-hd, sli suc ip, pr intrxn & vug por, FSFO, brn-dk brn spot stn, fr odr, scatt Sh., gy, few pcs chrt, clr-wht, weath

Dol., crm, fn-vfnxn, mod hd-hd, fr vug & spic cast por, pr intrxn por, FSFO in most, few w SSFO, spot blk stn ip, wk cup odr, fr odr on brk, abund Sh., gy-bm, blk y

Dol., crm-tn, fnxn, mod hd-hd, pr-fr vug & intrxn por, occ pr spic cast por, SSFO, tr blk stn, many pcs barren, wk odr, abund Sh., aa

Dol., tn-crm-bm, fn-vfnxn, mod hd, pr intrxn & fr vug & spi cast por, VSSFO, tr blk stn, vy wk odr, scatt Chrt, wht, shp, t edge stn, nvp

Dol., crm-lt gy, vfnxn, mod hd-hd, fr vug & spi cast por, tr blk stn, NSFO, no det odr, scatt Chrt, aa, scatt Sh., gy-bm

30' HOCM (40%M, 60%M)

90' TF

FP: 17-34; 40-55  
SIP: 776-737  
HP: 2254-2153

BHT: 124  
Gravity: 41  
Chlor: ----

**DST #2 4399-4417 (Mississippi)**  
30-30-30-30  
IF: WB, built to 2 1/4"  
IS: No blow  
FF: WB, built to 3/4", flushed, no help  
FS: No blow

Recovery:  
70' OSMW (40%M, 60%M)

FP: 18-37; 42-57  
SIP: 941-899  
HP: 2269-2197

BHT: 121  
Gravity: --  
Chlor: 66000 ppm

4350  
4400  
4450  
4500