KOLAR Document ID: 1411560

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 # 30742
Name: Palomino Petroleum, Inc.
Address 1: 4924 SE 84TH ST
Address 2:
City: NEWTON State: KS Zip: 67114 + 8827
Contact Person: Klee Robert Watchous
Phone: (316) 799-1000
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Andrew Stenzel
Purchaser: None

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 #:

05/07/2018	05/18/2018	05/18/2018
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-203-20334-00-00
Spot Description:
NE - SE - NW - SW Sec. 23 Twp. 16 S. R. 36 ☐ East ☑ West
1682 Feet from ☐ North / ☑ South Line of Section
1253 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Wichita
Lease Name: C & N ENTERPRISES Well #: 1
Field Name:
Producing Formation: None
Elevation: Ground: 3267 Kelly Bushing: 3272
Total Vertical Depth: 4979 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 261 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
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: 06/13/2018
☐ **Confidential Release Date:** 06/12/2020
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 06/13/2018

Operator Name: Palomino Petroleum, Inc. Lease Name: C & N ENTERPRISES Well #: 1

Sec. 23 Twp. 16 S. R. 36 ☐ East ☑ West County: Wichita

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run:

Litho Density Neutron
Dual Induction
Borehole Compensated Sonic

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.250	8.625	23	261	Common	195	2% gel, 3% c.c.

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

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

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	C & N ENTERPRISES 1
Doc ID	1411560

Tops

Name	Top	Datum
Anhy.	2454	(+ 818)
Base Anhy.	2524	(+ 748)
Tarkio	3610	(- 338)
Topeka	3739	(- 467)
Heebner	3977	(- 705)
Toronto	3995	(- 723)
Lansing	4025	(- 753)
Muncie Creek	4200	(- 928)
Stark Sh.	4287	(-1015)
BKC	4371	(-1099)
Marmaton	4429	(-1157)
Pawnee	4515	(-1243)
Myrick Station	4551	(-1279)
Ft. Scott	4572	(-1300)
Cherokee Sh.	4598	(-1326)
Morrow Sh.	4738	(-1466)
Miss.	4807	(-1535)
LTD	4979	(-1707)

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	C & N ENTERPRISES 1
Doc ID	1411560

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	23	261	Common	195	2% gel, 3% c.c.

QES
PRESSURE PUMPING LLC

REMIT TO

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

RECEIVED
MAY 25 2018

MAIN OFFICE

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

Invoice

Invoice# 813199

Invoice Date: 05/22/18

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET
NEWTON KS 67114-8827
USA

C&N ENTERPRISES 1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0451	Cement Pump Charge 1501' - 3000'	1.000	1,900.0000	30.000	1,330.00
CE0002	Equipment Mileage Charge - Heavy Equipment	55.000	7.1500	30.000	275.28
CE0710	Cement Delivery Charge	1.000	1,158.8500	30.000	811.20
CC5829	Lite-Weight Blend V (60:40:4)	280.000	16.0000	30.000	3,136.00
CC6075	Celloflake	70.000	3.0000	30.000	147.00

Subtotal	8,142.10
Discounted Amount	2,442.63
SubTotal After Discount	5,699.47

Amount Due 8,540.75 If paid after 06/21/18

Tax:	279.06
Total:	5,978.54

QES
PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

10713
10604

TICKET NUMBER 55160
LOCATION Oakley KS
FOREMAN Miles Shaw

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #813199

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-18-18	6285	C+N Enterprises #1	23	16 S	38 W	Wichita

CUSTOMER: Pelo mine
MAILING ADDRESS: 4924 SE 84th Street
CITY: Newton | STATE: KS | ZIP CODE: 67114-8827

Loc: US Hwy 25 to CR D East to CR 17 S to into

TRUCK #	DRIVER	TRUCK #	DRIVER
753	Travis W		
580/T-129	Neil W		

JOB TYPE PTA | HOLE SIZE 7 7/8" | HOLE DEPTH 4975' | CASING SIZE & WEIGHT
CASING DEPTH | DRILL PIPE 4.5" | TUBING | OTHER
SLURRY WEIGHT 13.8 | SLURRY VOL 1.4 | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safety meeting and Rig up on WW drilling Rig #10 Plug as ordered
1st plug 50 sx @ 2530'
2nd plug 80 sx @ 1650'
3rd plug 50 sx @ 800'
4th plug 50 sx @ 300'
5th plug 20 sx @ 60'
RH 30 sx
280 sx 60/40 4% gel 1/4 # flo
Thanks Miles & Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	55	MILEAGE	7.15	393.25
CE0710	12.04 Ton	Ton Mileage delivery	1.75	1158.85
CC5829	280 sx	Lite-Weight blend II	16.00	4480.00
CC6075	70 #	Cello flake	3.00	210.00
			Subtotal	8142.10
		Less 30% Discount		2442.63
			Sub total	5699.47
			SALES TAX	279.06
			ESTIMATED TOTAL	5978.54

16638

Ravin 3737

AUTHORIZTION _____ TITLE _____ DATE _____

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

QES
PRESSURE PUMPING LLC

REMIT TO

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

RECEIVED
MAY 14 2018

MAIN OFFICE

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

Invoice

Invoice# 813138

Invoice Date: 05/11/18

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET
NEWTON KS 67114-8827
USA

C&N Enterprices #1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	30.000	805.00
CE0002	Equipment Mileage Charge - Heavy Equipment	50.000	7.1500	30.000	250.25
CE0710	Cement Delivery Charge	1.000	844.3800	30.000	591.07
CC5871	Surface Blend II, 2% Gel/3% CaCl	195.000	24.0000	30.000	3,276.00

Subtotal	7,031.88
Discounted Amount	2,109.56
SubTotal After Discount	4,922.32

Amount Due 7,429.68 If paid after 06/10/18

Tax:	278.46
Total:	5,200.78

10652
10544

TICKET NUMBER 55134
LOCATION Oakley KS
FOREMAN Travis Williams

QES
PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #813138 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/7/18	6285	C+N Enterprises #1	23	16 S	36W	Wichita

CUSTOMER: Palomino Petroleum
MAILING ADDRESS: 4924 SE 84th Street
CITY: Newton | STATE: KS | ZIP CODE: 67114-8827

Loc: N to Pad E to 1st Rd 1/2 S, E into

TRUCK #	DRIVER	TRUCK #	DRIVER
753	Keith C.		
566	Paul W.		

JOB TYPE Surface | HOLE SIZE 12 1/4 | HOLE DEPTH 261 | CASING SIZE & WEIGHT 8 5/8, 24 Lbs.
CASING DEPTH 261 | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.8 | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT 15 1/4 bbls | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safety meeting, rig up on WW Drilling Rig #10, Circulate Casing, mix 195 Sx Surface Blend II, Class A cement, 3% Calcium, 2% Gel displace 15 1/4 barrels shut in. Cement did circulate, 4 bbls to pit

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0471	1	PUMP CHARGE	1150.00	1150.00
CE 0002	50 mi.	MILEAGE	7.15	357.50
CE 0716	9.65 Tons	Ton Mileage	1.75	844.38
CC 5871	195 Sk	Surface blend II	24.00	4680.00
			Sub Total	7031.88
			30% Disc.	2109.56
			New Total	4922.32
			SALES TAX	278.46
			ESTIMATED TOTAL	5200.78

16554

Ravin 3737

AUTHORIZTION Paul Wh TITLE DATE

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

TERMS AND CONDITIONS

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

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

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

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

2. Terms of Payment. Customer will pay QES cash in advance for Services and Products unless QES has approved credit prior to the performance of the Services and/or delivery of the Products. Credit terms for approved accounts require full payment of the invoiced amount within 30 days from the date of invoice. All invoices not paid within 30 days will be charged an interest rate of 1½% per month or the maximum rate allowed under applicable state law, whichever is higher. Customer will be responsible for any fees incurred by QES in the collection of any amounts owed to QES including but not limited to attorney's fees and/or collection fee costs.

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

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

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

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

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

8. WARRANTIES - LIMITATION OF LIABILITY

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

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

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

9. INDEMNIFICATION AND WAIVER OF CONSEQUENTIAL DAMAGES.

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

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

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

9.4 WELL. CUSTOMER WILL RELEASE, PROTECT, DEFEND, AND INDEMNIFY QES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER IN THE EVENTS OF: (I) LOSS OR DAMAGE TO ANY GEOLOGICAL FORMATION, STRATA OR OIL OR GAS RESERVOIR OR MINERAL OR WATER RESOURCE BENEATH THE SURFACE OF THE LAND OR WATER, (II) LOSS OR DAMAGE TO THE HOLE OR WELL, (III) IMPAIRMENT OF PROPERTY RIGHTS OR OTHER INTERESTS IN OR TO OIL, GAS, MINERAL OR WATER RESOURCES, AND (IV) REGAINING CONTROL OF ANY WILD WELL OR OUT OF CONTROL WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING REMOVAL OF WRECK, DEBRIS, EQUIPMENT, AND HAZARDOUS MATERIALS AND REMEDIATING ENVIRONMENTAL DAMAGE.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.11 @ 10:12:00
End Date: 2018.05.11 @ 14:58:00
Job Ticket #: 63670 DST #: 1

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

Printed: 2018.05.21 @ 13:49:50

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63670 **DST#: 1**

Test Start: 2018.05.11 @ 10:12:00

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:36:00
Time Test Ended: 14:58:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 79

Interval: 3886.00 ft (KB) To 3928.00 ft (KB) (TVD)
Total Depth: 3928.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

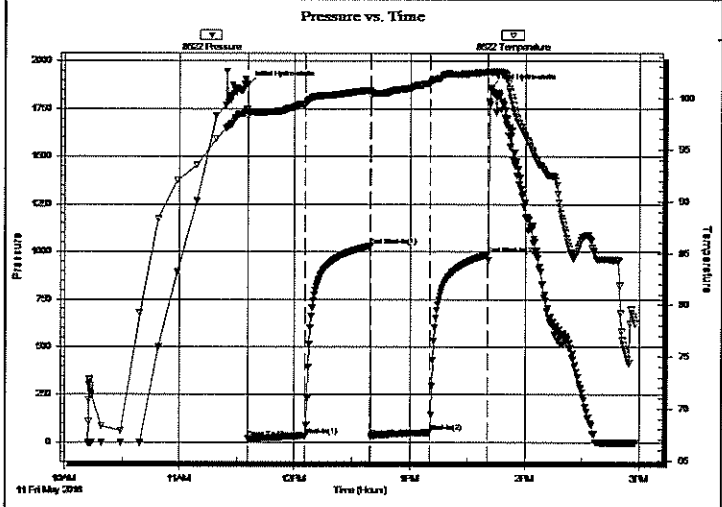
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8522 **Inside**

Press@RunDepth: 52.96 psig @ 3887.00 ft (KB)
Start Date: 2018.05.11 End Date: 2018.05.11
Start Time: 10:12:05 End Time: 14:57:59

Capacity: 8000.00 psig
Last Calib.: 2018.05.11
Time On Btm: 2018.05.11 @ 11:35:45
Time Off Btm: 2018.05.11 @ 13:42:00

TEST COMMENT: IF: 2" blow.
ISI: No return.
FF: 1 1/4" blow.
FSI: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1875.52	98.92	Initial Hydro-static
1	18.91	98.19	Open To Flow (1)
30	35.36	99.35	Shut-In(1)
64	1030.54	100.74	End Shut-In(1)
64	30.33	100.08	Open To Flow (2)
95	52.96	101.37	Shut-In(2)
125	984.96	102.50	End Shut-In(2)
127	1860.67	102.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Mud 100m (oil spots)	0.49

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63670 **DST#: 1**

Test Start: 2018.05.11 @ 10:12:00

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:36:00
Time Test Ended: 14:58:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 79

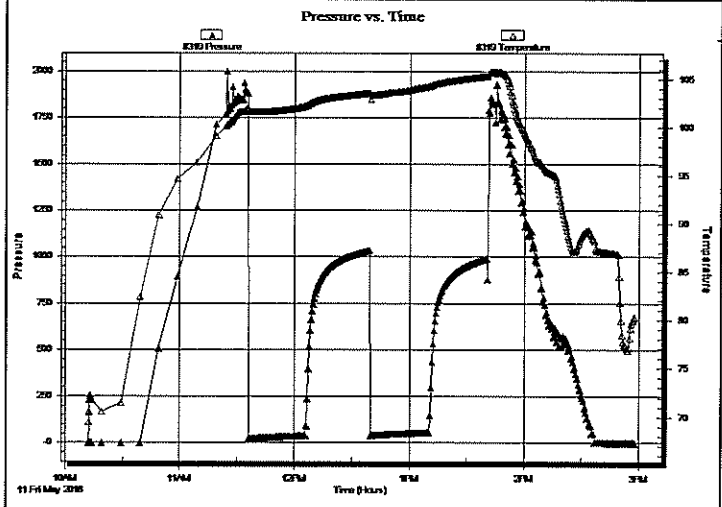
Interval: 3886.00 ft (KB) To 3928.00 ft (KB) (TVD)
Total Depth: 3928.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8319 **Outside**
Press@RunDepth: psig @ 3887.00 ft (KB)
Start Date: 2018.05.11 End Date: 2018.05.11
Start Time: 10:12:05 End Time: 14:57:59

Capacity: 8000.00 psig
Last Calib.: 2018.05.11
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 2" blow.
ISI: No return.
FF: 1 1/4" blow.
FSI: No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Mud 100m (oil spots)	0.49

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
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63670 **DST#: 1**

Test Start: 2018.05.11 @ 10:12:00

Tool Information

Drill Pipe:	Length:	3745.00 ft	Diameter:	3.80 inches	Volume:	52.53 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	
					Total Volume:	53.13 bbl	

Drill Pipe Above KB:	8.00 ft
Depth to Top Packer:	3886.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	42.00 ft
Tool Length:	69.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	85000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	70000.00 lb
Final	70000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3860.00		
Shut In Tool	5.00			3865.00		
Hydraulic tool	5.00			3870.00		
Jars	5.00			3875.00		
Safety Joint	2.00			3877.00		
Packer	5.00			3882.00	27.00	Bottom Of Top Packer
Packer	4.00			3886.00		
Stubb	1.00			3887.00		
Recorder	0.00	8522	Inside	3887.00		
Recorder	0.00	8319	Outside	3887.00		
Perforations	5.00			3892.00		
Change Over Sub	1.00			3893.00		
Drill Pipe	31.00			3924.00		
Change Over Sub	1.00			3925.00		
Bullnose	3.00			3928.00	42.00	Bottom Packers & Anchor
Total Tool Length:	**69.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63670 **DST#: 1**

Test Start: 2018.05.11 @ 10:12:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.18 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

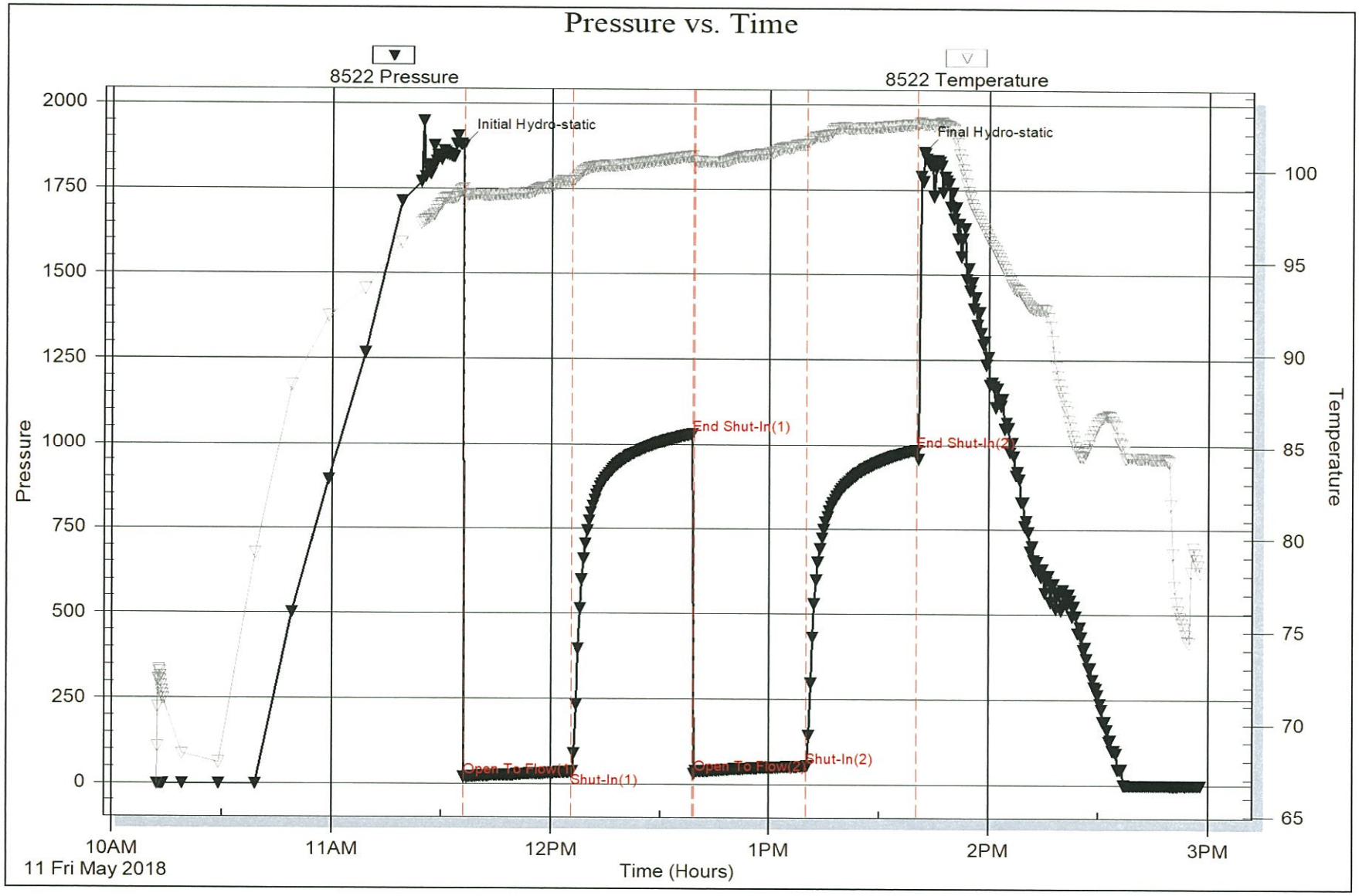
Recovery Table

Length ft	Description	Volume bbl
100.00	Mud 100m (oil spots)	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl

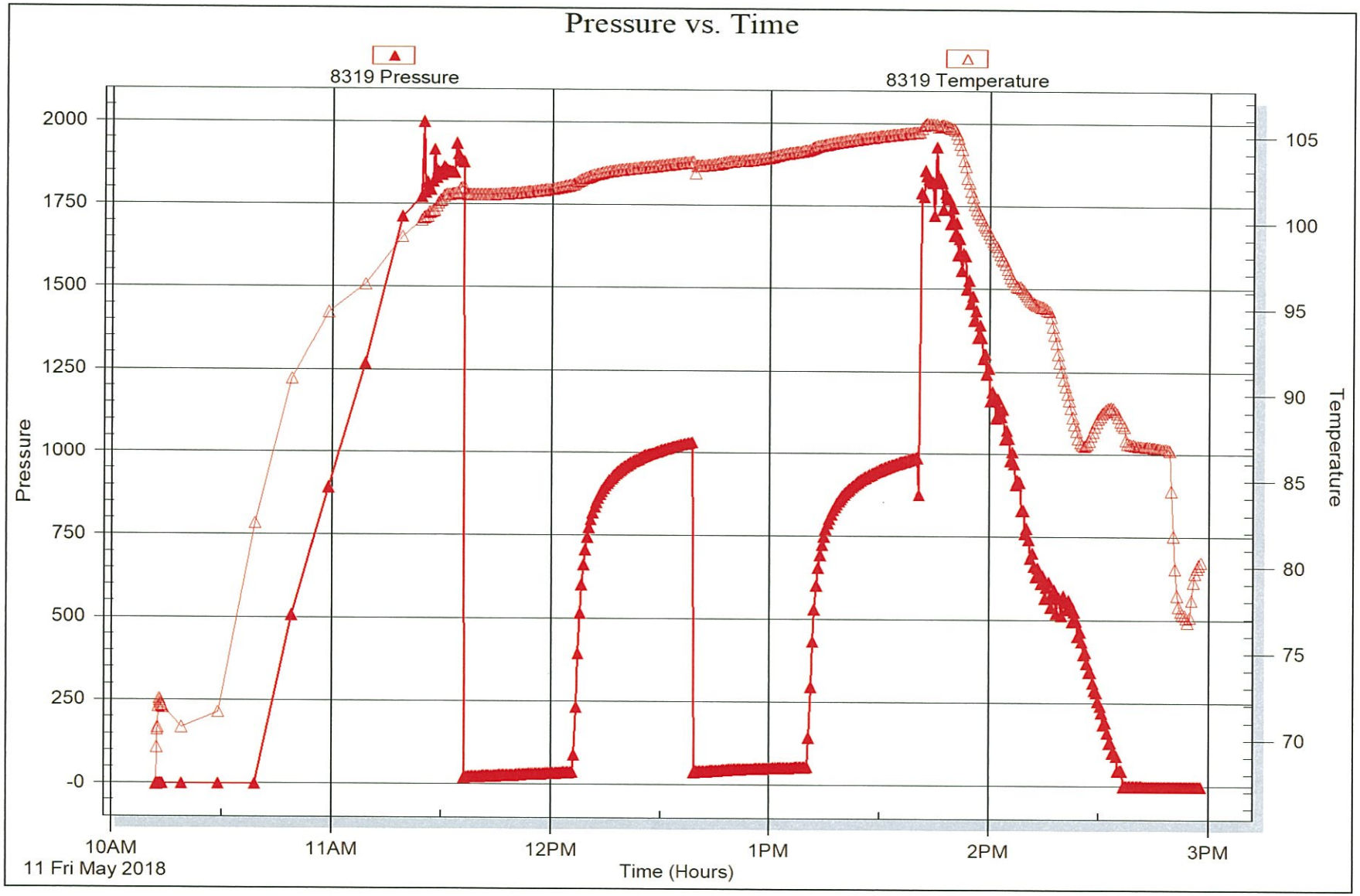
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8522 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63670 Printed: 2018.05.21 @ 13:49:51

Serial #: 8319 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63670 Printed: 2018.05.21 @ 13:49:51

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.12 @ 00:32:41
End Date: 2018.05.12 @ 06:20:41
Job Ticket #: 63636 DST #: 2

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

Printed: 2018.05.21 @ 13:49:09

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
New ton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63636 **DST#: 2**

Test Start: 2018.05.12 @ 00:32:41

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:23:11
Time Test Ended: 06:20:41

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

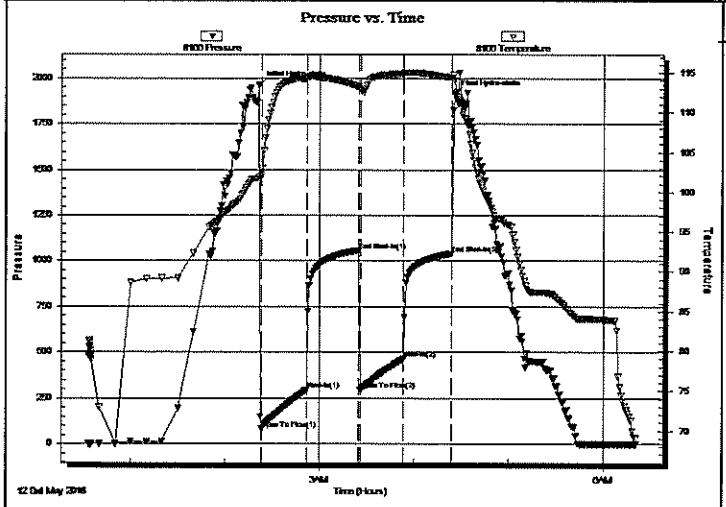
Interval: 3974.00 ft (KB) To 4023.00 ft (KB) (TVD)
Total Depth: 4023.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 463.82 psig @ 3975.00 ft (KB)
Start Date: 2018.05.12 End Date: 2018.05.12
Start Time: 00:32:46 End Time: 06:20:40

Capacity: 8000.00 psig
Last Calib.: 2018.05.12
Time On Btm: 2018.05.12 @ 02:21:41
Time Off Btm: 2018.05.12 @ 04:25:41

TEST COMMENT: IF: BOB in 5 min. 56"
IS: No return.
FF: BOB in 8 min. 46"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1960.66	101.92	Initial Hydro-static
2	79.92	102.12	Open To Flow (1)
31	297.39	114.29	Shut-In(1)
63	1056.76	113.19	End Shut-In(1)
64	297.12	112.93	Open To Flow (2)
92	463.82	114.88	Shut-In(2)
122	1039.13	114.36	End Shut-In(2)
124	1912.37	114.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 90%w 10%m	7.73
355.00	w cm oil spots on top 40%w 60%m	4.98

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63636 **DST#: 2**

Test Start: 2018.05.12 @ 00:32:41

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:23:11
Time Test Ended: 06:20:41

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

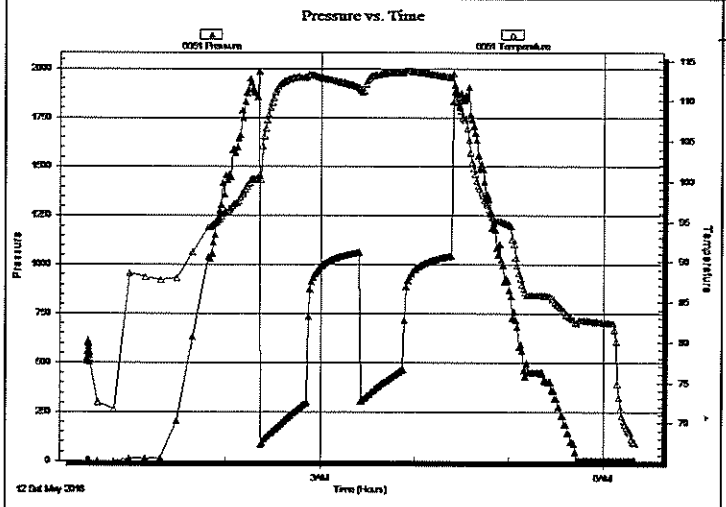
Interval: 3974.00 ft (KB) To 4023.00 ft (KB) (TVD)
Total Depth: 4023.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: psig @ 3975.00 ft (KB)
Start Date: 2018.05.12 End Date: 2018.05.12
Start Time: 00:32:11 End Time: 06:20:05

Capacity: 8000.00 psig
Last Calib.: 2018.05.12
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 5 min. 56"
IS: No return.
FF: BOB in 8 min. 46"
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 90%w 10%m	7.73
355.00	w cm oil spots on top 40%w 60%m	4.98

* 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
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63636 **DST#: 2**

Test Start: 2018.05.12 @ 00:32:41

Tool Information

Drill Pipe:	Length:	3839.00 ft	Diameter:	3.80 inches	Volume:	53.85 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	90000.00 lb
					Total Volume:	54.45 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight: Initial	72000.00 lb
Depth to Top Packer:		3974.00 ft					Final	78000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		49.00 ft						
Tool Length:		76.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			3948.00		
Shut In Tool	5.00			3953.00		
Hydraulic tool	5.00			3958.00		
Jars	5.00			3963.00		
Safety Joint	2.00			3965.00		
Packer	5.00			3970.00	27.00	Bottom Of Top Packer
Packer	4.00			3974.00		
Stubb	1.00			3975.00		
Recorder	0.00	6651	Inside	3975.00		
Recorder	0.00	8166	Outside	3975.00		
Perforations	9.00			3984.00		
Change Over Sub	1.00			3985.00		
Drill Pipe	32.00			4017.00		
Change Over Sub	1.00			4018.00		
Bullnose	5.00			4023.00	49.00	Bottom Packers & Anchor
Total Tool Length:	**76.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63636 **DST#: 2**

Test Start: 2018.05.12 @ 00:32:41

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	55000 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.18 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	mcw 90%w 10%m	7.726
355.00	w cm oil spots on top 40%w 60%m	4.980

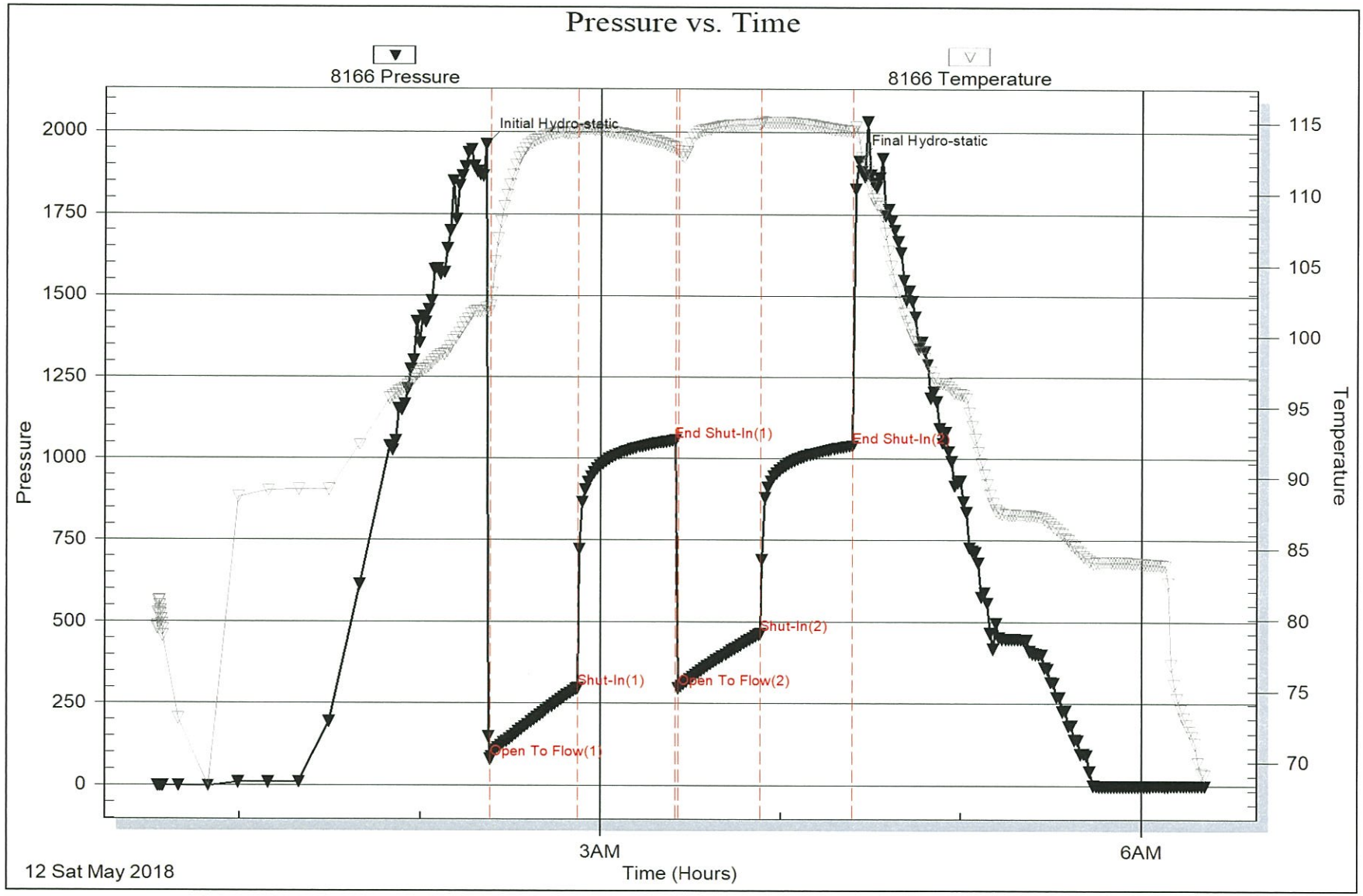
Total Length: 985.00 ft Total Volume: 12.706 bbl

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

Laboratory Name: Laboratory Location:

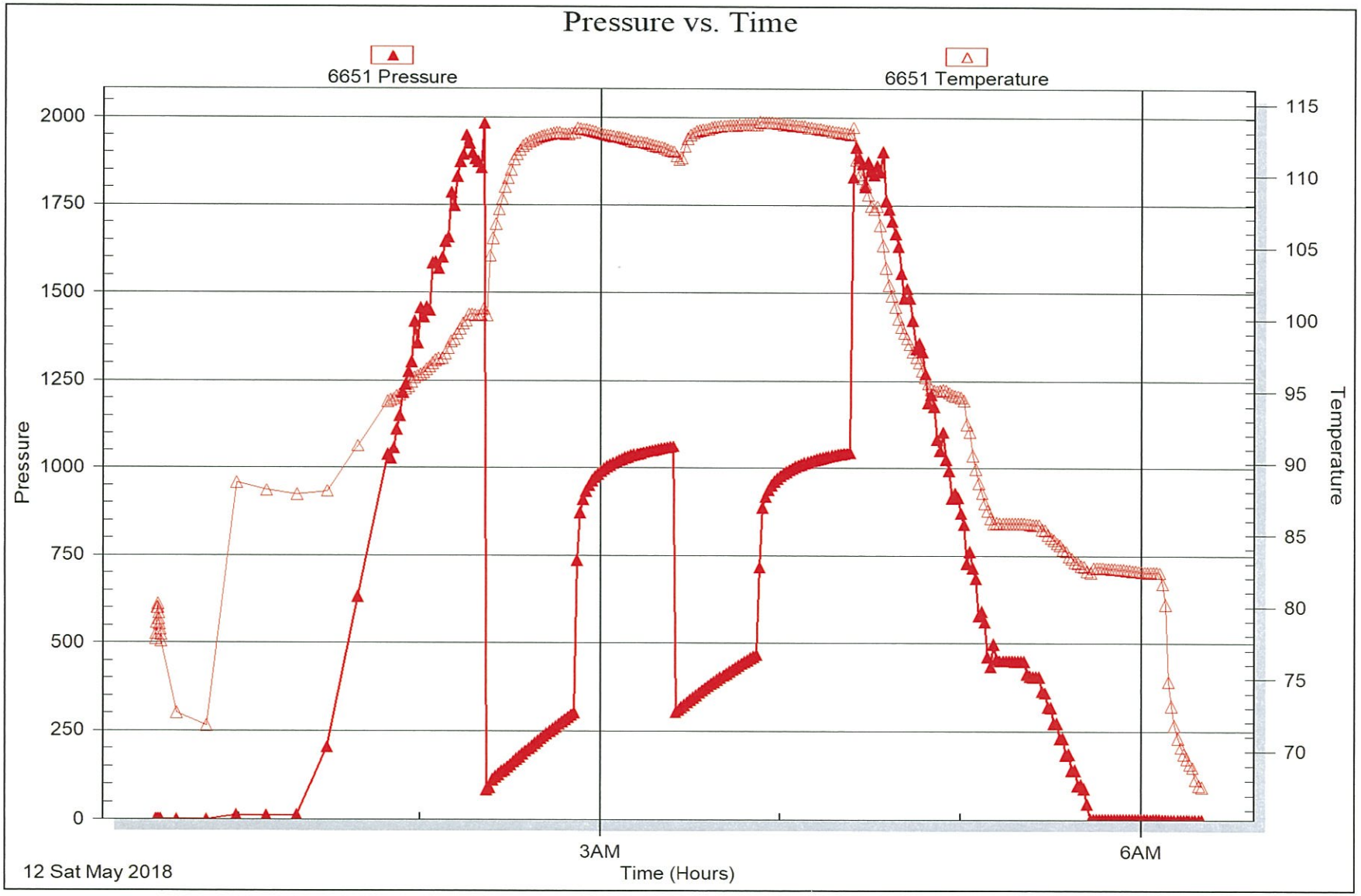
Recovery Comments: .16@62=55000

Serial #: 8166 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63636 Printed: 2018.05.21 @ 13:49:10

Serial #: 6651 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 2



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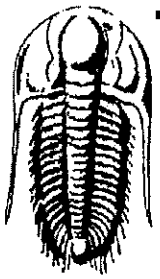


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.12 @ 13:08:16
End Date: 2018.05.12 @ 18:04:46
Job Ticket #: 63637 DST #: 3

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

Printed: 2018.05.21 @ 13:48:37

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63637 **DST#: 3**

Test Start: 2018.05.12 @ 13:08:16

GENERAL INFORMATION:

Formation: **LKC A-B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:27:16
Time Test Ended: 18:04:46

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

Interval: 4026.00 ft (KB) To 4057.00 ft (KB) (TVD)
Total Depth: 4057.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

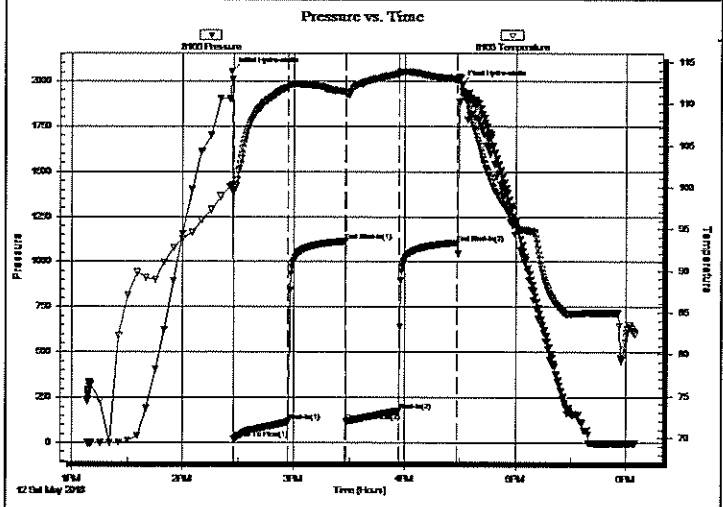
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 177.92 psig @ 4027.00 ft (KB)
Start Date: 2018.05.12 End Date: 2018.05.12
Start Time: 13:08:21 End Time: 18:04:45

Capacity: 8000.00 psig
Last Calib.: 2018.05.12
Time On Btm: 2018.05.12 @ 14:26:16
Time Off Btm: 2018.05.12 @ 16:30:16

TEST COMMENT: IF: BOB in 20 min. 14"
IS: No return.
FF: BOB in 23 min. 13"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.74	100.24	Initial Hydro-static
1	21.92	99.34	Open To Flow (1)
31	115.61	111.94	Shut-In(1)
62	1113.17	111.42	End Shut-In(1)
62	118.56	111.11	Open To Flow (2)
91	177.92	113.57	Shut-In(2)
122	1105.03	112.97	End Shut-In(2)
124	1982.22	113.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	1.54
176.00	mw 50%w 50%m	2.47

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63637 **DST#: 3**

Test Start: 2018.05.12 @ 13:08:16

GENERAL INFORMATION:

Formation: **LKC A-B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:27:16
Time Test Ended: 18:04:46

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

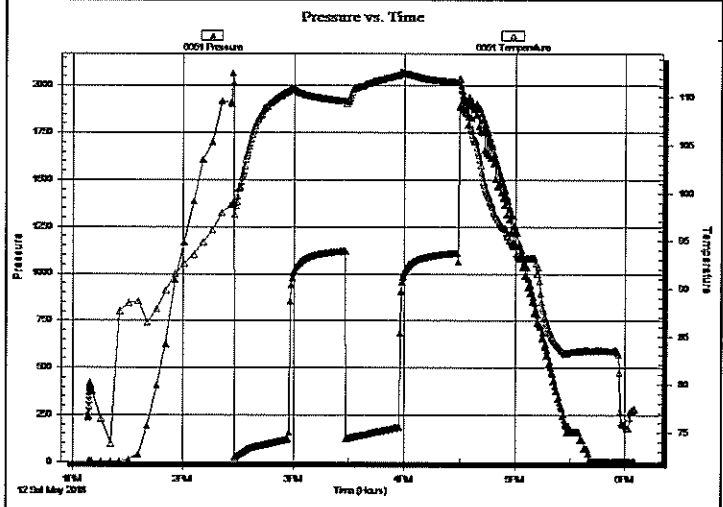
Interval: 4026.00 ft (KB) To 4057.00 ft (KB) (TVD)
Total Depth: 4057.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: psig @ 4027.00 ft (KB)
Start Date: 2018.05.12 End Date: 2018.05.12
Start Time: 13:08:41 End Time: 18:05:05

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 20 min. 14"
IS: No return.
FF: BOB in 23 min. 13"
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	1.54
176.00	mw 50%w 50%m	2.47

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63637 **DST#: 3**

Test Start: 2018.05.12 @ 13:08:16

Tool Information

Drill Pipe:	Length:	3897.00 ft	Diameter:	3.80 inches	Volume:	54.66 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:		95000.00 lb
					Total Volume:	55.26 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	74000.00 lb
Depth to Top Packer:		4026.00 ft						Final	76000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		31.00 ft							
Tool Length:		58.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4000.00		
Shut In Tool	5.00			4005.00		
Hydraulic tool	5.00			4010.00		
Jars	5.00			4015.00		
Safety Joint	2.00			4017.00		
Packer	5.00			4022.00	27.00	Bottom Of Top Packer
Packer	4.00			4026.00		
Stubb	1.00			4027.00		
Recorder	0.00	6651	Inside	4027.00		
Recorder	0.00	8166	Outside	4027.00		
Perforations	25.00			4052.00		
Bullnose	5.00			4057.00	31.00	Bottom Packers & Anchor
Total Tool Length:	**58.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63637 **DST#: 3**

Test Start: 2018.05.12 @ 13:08:16

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	43000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	40000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

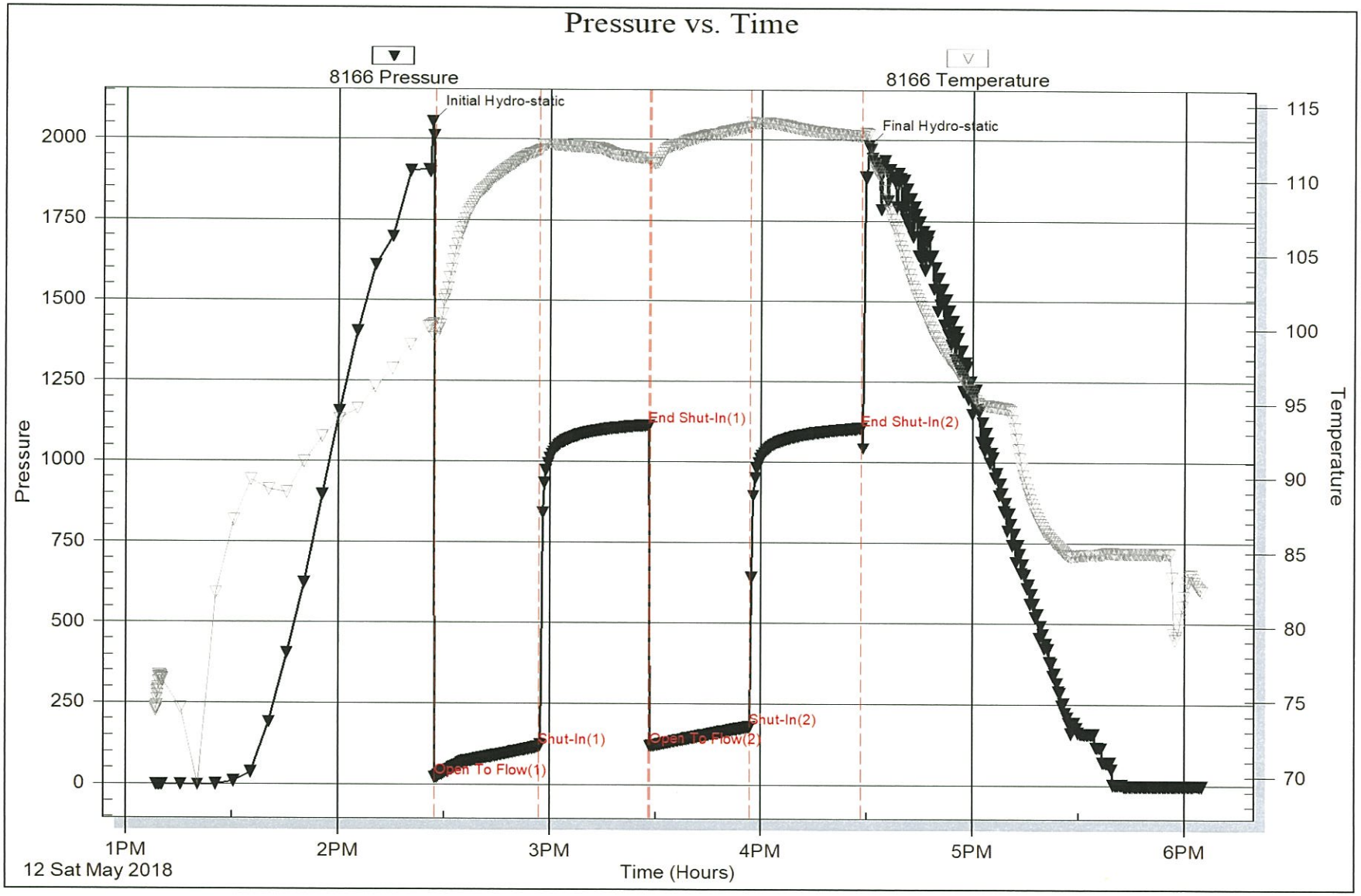
Recovery Table

Length ft	Description	Volume bbl
189.00	mcw 90%w 10%m	1.540
176.00	mw 50%w 50%m	2.469

Total Length: 365.00 ft Total Volume: 4.009 bbl

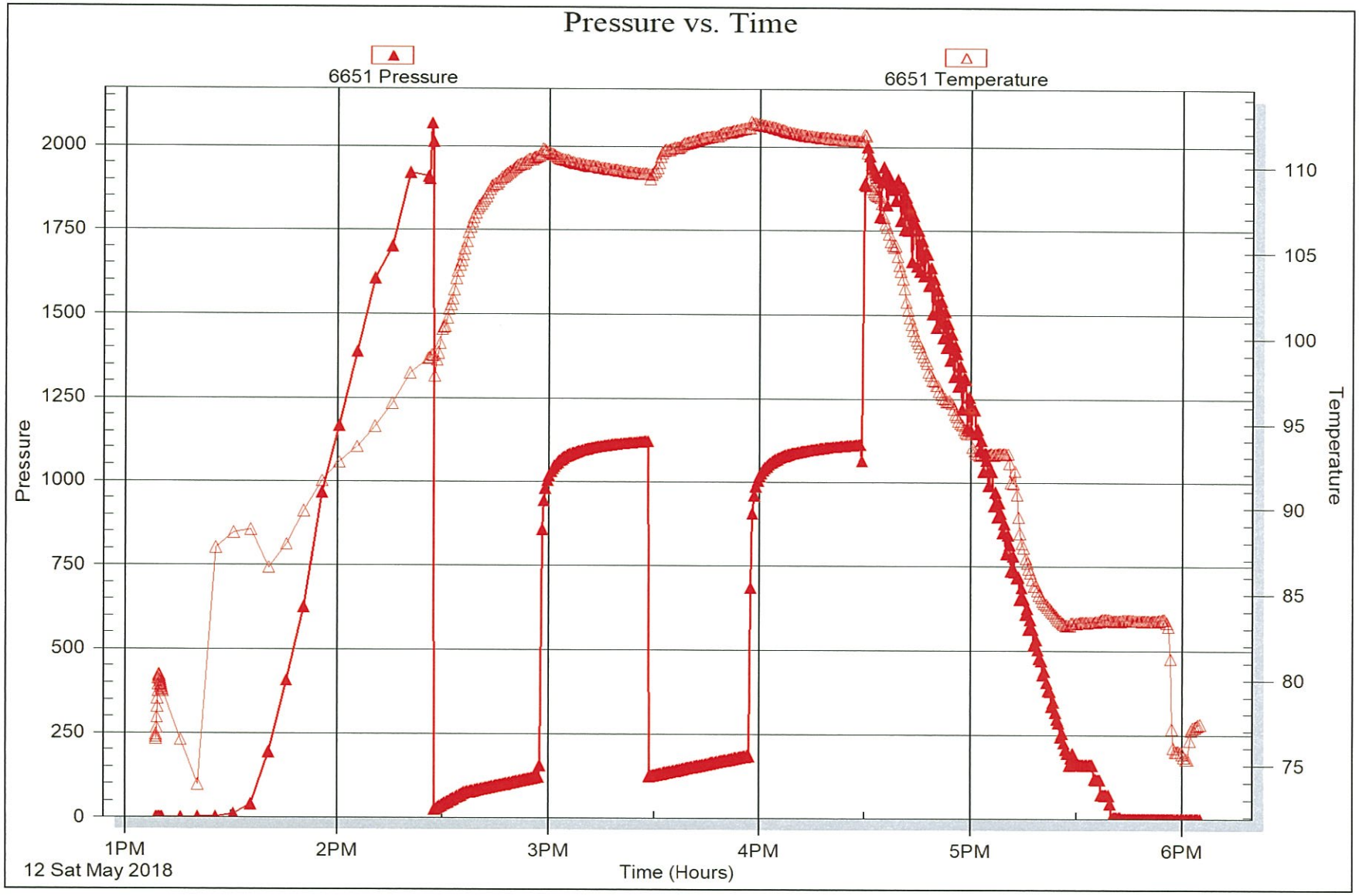
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .15@80=43000

Serial #: 8166 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63637 Printed: 2018.05.21 @ 13:48:38

Serial #: 6651 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63637 Printed: 2018.05.21 @ 13:48:38

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.13 @ 06:10:42
End Date: 2018.05.13 @ 10:55:42
Job Ticket #: 63638 DST #: 4

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

Printed: 2018.05.21 @ 13:48:17

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63638 **DST#: 4**

Test Start: 2018.05.13 @ 06:10:42

GENERAL INFORMATION:

Formation: **LKC C-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:48:42
Time Test Ended: 10:55:42

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

Interval: 4087.00 ft (KB) To 4152.00 ft (KB) (TVD)
Total Depth: 4152.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

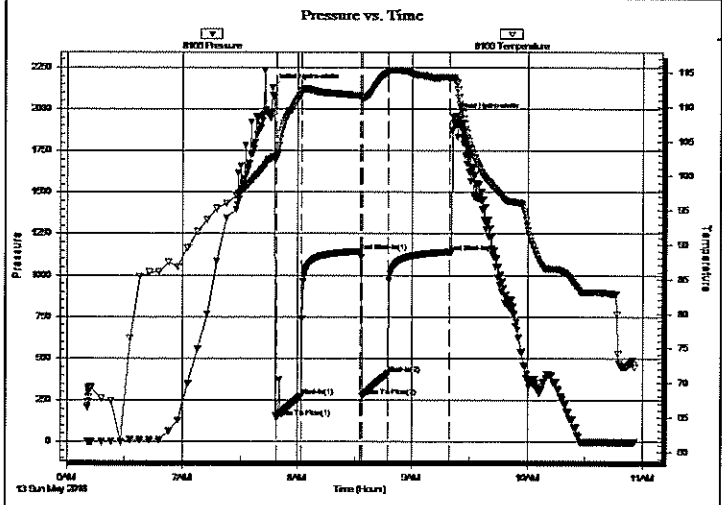
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 408.99 psig @ 4088.00 ft (KB)
Start Date: 2018.05.13 End Date: 2018.05.13
Start Time: 06:10:47 End Time: 10:55:41

Capacity: 8000.00 psig
Last Calib.: 2018.05.13
Time On Btm: 2018.05.13 @ 07:46:42
Time Off Btm: 2018.05.13 @ 09:21:12

TEST COMMENT: IF: BOB in 3 min. 40"
IS: No return.
FF: BOB in 3 min. 42 1/2"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.09	102.75	Initial Hydro-static
2	142.80	102.65	Open To Flow (1)
15	274.56	111.86	Shut-In(1)
46	1143.88	111.51	End Shut-In(1)
47	273.69	111.19	Open To Flow (2)
61	408.99	115.03	Shut-In(2)
93	1139.05	114.22	End Shut-In(2)
95	1952.03	114.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	mcw 90%w 10%m	2.42
252.00	mw 50%w 50%m	3.53
325.00	w cm 10%w 90%m	4.56

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63638 **DST#: 4**

Test Start: 2018.05.13 @ 06:10:42

GENERAL INFORMATION:

Formation: **LKC C-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:48:42
Time Test Ended: 10:55:42

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

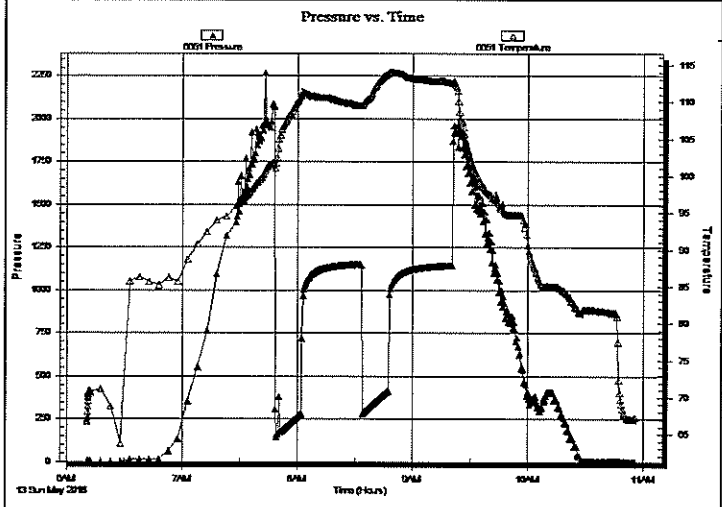
Interval: 4087.00 ft (KB) To 4152.00 ft (KB) (TVD)
Total Depth: 4152.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: psig @ 4088.00 ft (KB)
Start Date: 2018.05.13 End Date: 2018.05.13
Start Time: 06:10:55 End Time: 10:55:49

Capacity: 8000.00 psig
Last Calib.: 2018.05.13
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 3 min. 40"
IS: No return.
FF: BOB in 3 min. 42 1/2"
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
252.00	mcw 90%w 10%m	2.42
252.00	mw 50%w 50%m	3.53
325.00	w cm 10%w 90%m	4.56

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63638 **DST#: 4**

Test Start: 2018.05.13 @ 06:10:42

Tool Information

Drill Pipe:	Length:	3966.00 ft	Diameter:	3.80 inches	Volume:	55.63 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:		95000.00 lb
					Total Volume:	56.23 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight:	Initial	74000.00 lb
Depth to Top Packer:		4087.00 ft						Final	80000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		65.00 ft							
Tool Length:		92.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4061.00		
Shut In Tool	5.00			4066.00		
Hydraulic tool	5.00			4071.00		
Jars	5.00			4076.00		
Safety Joint	2.00			4078.00		
Packer	5.00			4083.00	27.00	Bottom Of Top Packer
Packer	4.00			4087.00		
Stubb	1.00			4088.00		
Recorder	0.00	6651	Inside	4088.00		
Recorder	0.00	8166	Outside	4088.00		
Perforations	25.00			4113.00		
Change Over Sub	1.00			4114.00		
Drill Pipe	32.00			4146.00		
Change Over Sub	1.00			4147.00		
Bullnose	5.00			4152.00	65.00	Bottom Packers & Anchor
Total Tool Length:	**92.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63638 **DST#: 4**

Test Start: 2018.05.13 @ 06:10:42

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	30000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

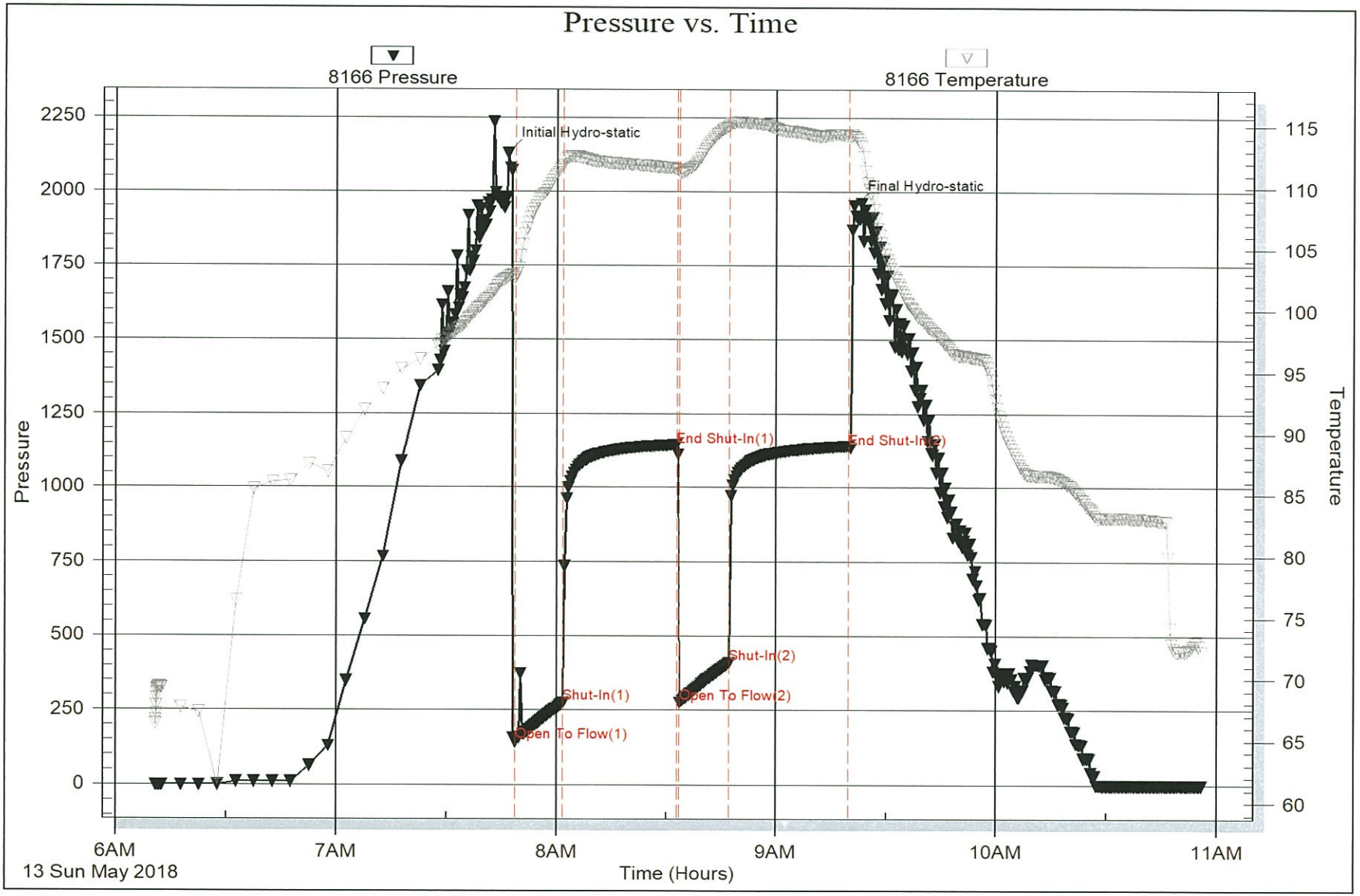
Recovery Table

Length ft	Description	Volume bbl
252.00	mcw 90%w 10%m	2.424
252.00	mw 50%w 50%m	3.535
325.00	w cm 10%w 90%m	4.559

Total Length: 829.00 ft Total Volume: 10.518 bbl

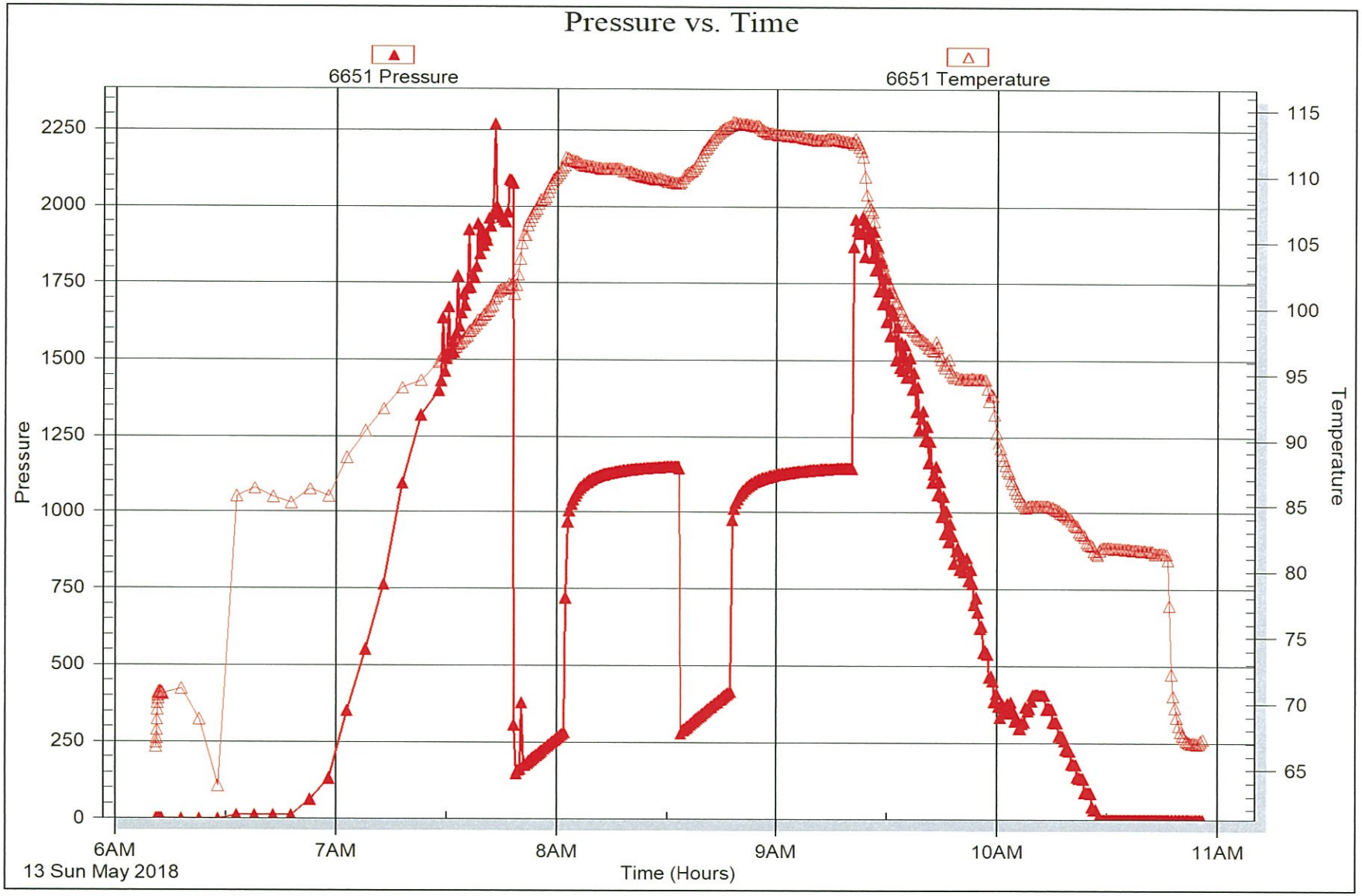
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .28@57=30000

Serial #: 8166 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 4

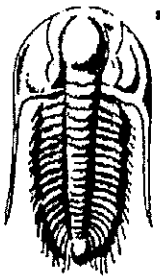


Trilobite Testing, Inc Ref. No: 63638 Printed: 2018.05.21 @ 13:48:18

Serial #: 6651 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 63638 Printed: 2018.05.21 @ 13:48:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.13 @ 21:17:24

End Date: 2018.05.14 @ 02:32:24

Job Ticket #: 63639 DST #: 5

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

Printed: 2018.05.21 @ 13:47:53

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63639 **DST#: 5**

Test Start: 2018.05.13 @ 21:17:24

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:52:54
Time Test Ended: 02:32:24

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

Interval: 4187.00 ft (KB) To 4224.00 ft (KB) (TVD)
Total Depth: 4224.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

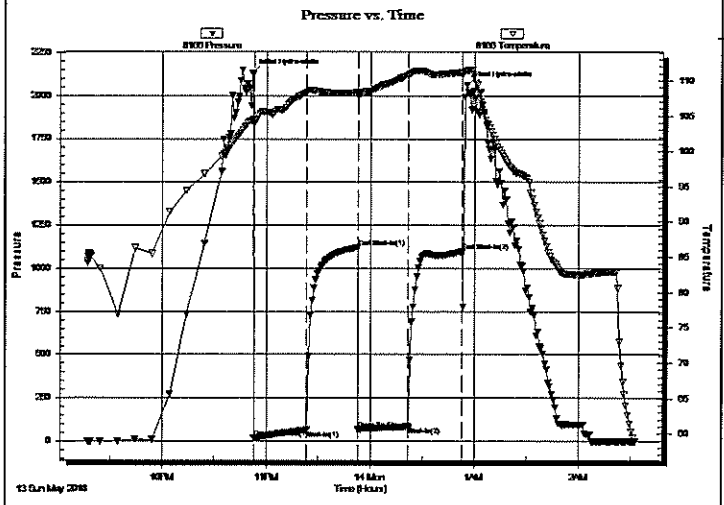
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 82.91 psig @ 4188.00 ft (KB)
Start Date: 2018.05.13 End Date: 2018.05.14
Start Time: 21:17:29 End Time: 02:32:23

Capacity: 8000.00 psig
Last Calib.: 2018.05.14
Time On Btm: 2018.05.13 @ 22:51:54
Time Off Btm: 2018.05.14 @ 00:55:24

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.53	104.37	Initial Hydro-static
1	17.99	103.95	Open To Flow (1)
32	64.66	108.36	Shut-In(1)
61	1120.43	108.30	End Shut-In(1)
61	68.52	107.85	Open To Flow (2)
90	82.91	110.74	Shut-In(2)
121	1098.93	111.15	End Shut-In(2)
124	2060.54	111.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	w cm 20%w 80%m	0.60
31.00	mud oil spots 100%m	0.43

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
New ton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63639 **DST#: 5**

Test Start: 2018.05.13 @ 21:17:24

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:52:54
Time Test Ended: 02:32:24

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

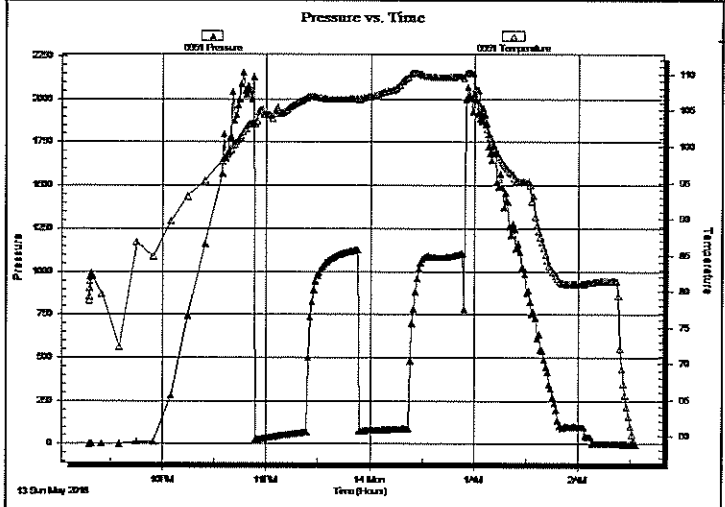
Interval: 4187.00 ft (KB) To 4224.00 ft (KB) (TVD)
Total Depth: 4224.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: psig @ 4188.00 ft (KB)
Start Date: 2018.05.13 End Date: 2018.05.14
Start Time: 21:17:53 End Time: 02:32:47

Capacity: 8000.00 psig
Last Calib.: 2018.05.14
Time On Btm:
Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
122.00	w cm 20%w 80%m	0.60
31.00	mud oil spots 100%m	0.43

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63639 **DST#: 5**

Test Start: 2018.05.13 @ 21:17:24

Tool Information

Drill Pipe:	Length:	4061.00 ft	Diameter:	3.80 inches	Volume:	56.97 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	90000.00 lb
					Total Volume:	57.57 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		23.00 ft					String Weight: Initial	70000.00 lb
Depth to Top Packer:		4187.00 ft					Final	70000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		37.00 ft						
Tool Length:		64.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4161.00		
Shut In Tool	5.00			4166.00		
Hydraulic tool	5.00			4171.00		
Jars	5.00			4176.00		
Safety Joint	2.00			4178.00		
Packer	5.00			4183.00	27.00	Bottom Of Top Packer
Packer	4.00			4187.00		
Stubb	1.00			4188.00		
Recorder	0.00	6651	Inside	4188.00		
Recorder	0.00	8166	Outside	4188.00		
Perforations	31.00			4219.00		
Bullnose	5.00			4224.00	37.00	Bottom Packers & Anchor
Total Tool Length:	**64.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63639 **DST#: 5**

Test Start: 2018.05.13 @ 21:17:24

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	27000 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	w cm 20%w 80%m	0.600
31.00	mud oil spots 100%m	0.435

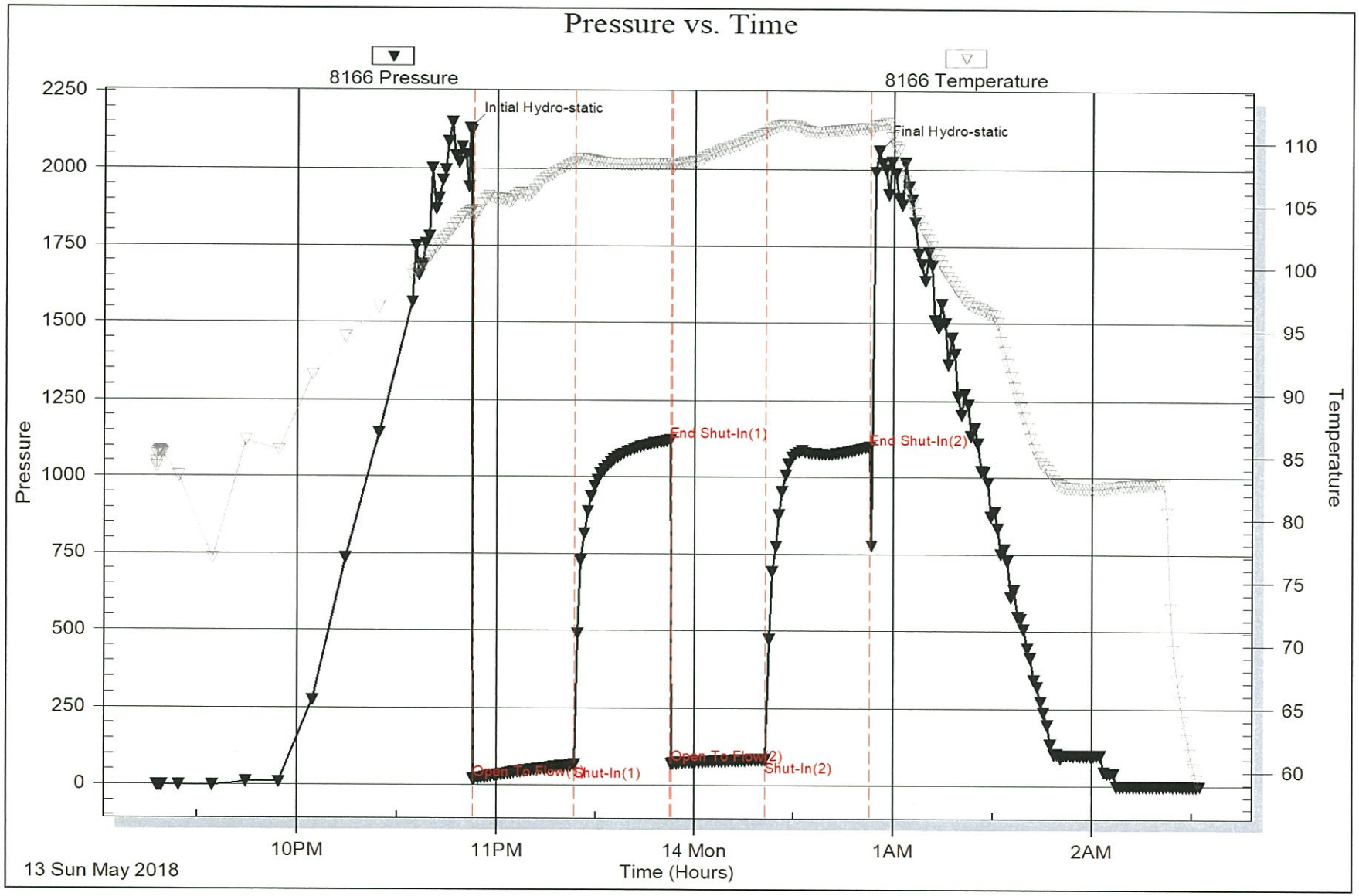
Total Length: 153.00 ft Total Volume: 1.035 bbl

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

Laboratory Name: Laboratory Location:

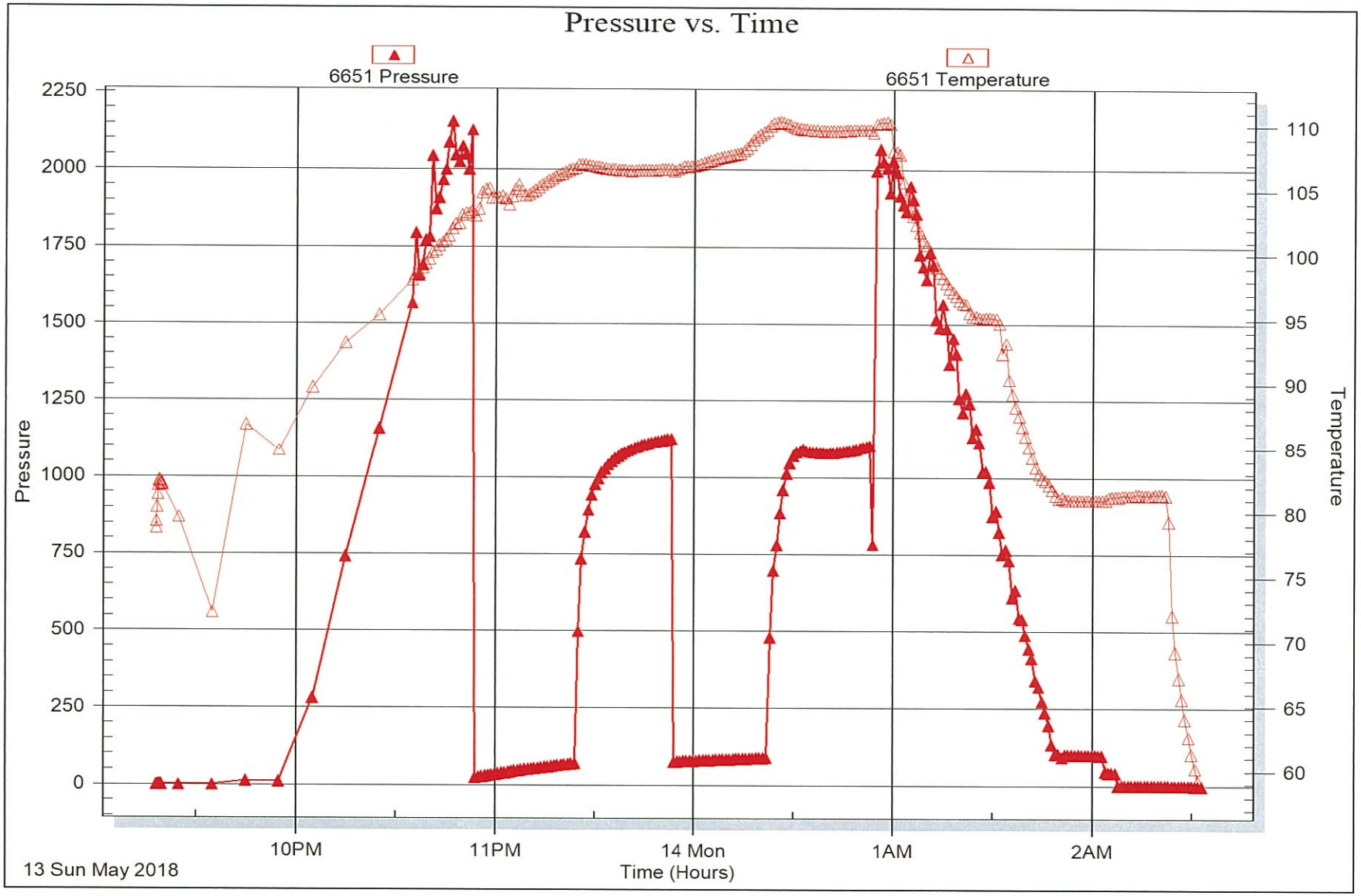
Recovery Comments: .30@59=27000

Serial #: 8166 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 63639 Printed: 2018.05.21 @ 13:47:54

Serial #: 6651 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 63639 Printed: 2018.05.21 @ 13:47:54

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.14 @ 14:21:47
End Date: 2018.05.14 @ 19:27:47
Job Ticket #: 63640 DST #: 6

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

Printed: 2018.05.21 @ 13:47:28

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63640 **DST#: 6**

Test Start: 2018.05.14 @ 14:21:47

GENERAL INFORMATION:

Formation: **LKC K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:44:47
Time Test Ended: 19:27:47

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

Interval: 4280.00 ft (KB) To 4325.00 ft (KB) (TVD)
Total Depth: 4325.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

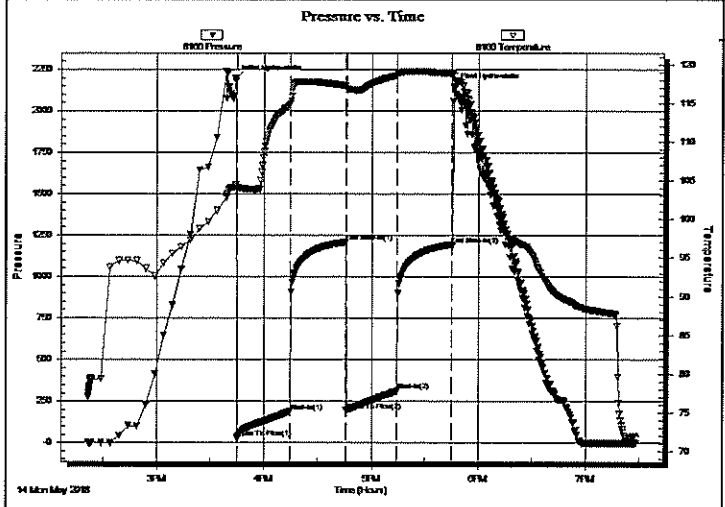
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 312.12 psig @ 4281.00 ft (KB)
Start Date: 2018.05.14 End Date: 2018.05.14
Start Time: 14:21:52 End Time: 19:27:46

Capacity: 8000.00 psig
Last Calib.: 2018.05.14
Time On Btm: 2018.05.14 @ 15:43:47
Time Off Btm: 2018.05.14 @ 17:46:17

TEST COMMENT: IF: BOB in 10 min. 26 1/2"
IS: No return.
FF: BOB in 12 min. 24"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.94	104.41	Initial Hydro-static
1	26.93	103.79	Open To Flow (1)
31	189.66	114.85	Shut-In(1)
62	1208.37	117.25	End Shut-In(1)
62	193.30	116.89	Open To Flow (2)
91	312.12	118.62	Shut-In(2)
121	1192.91	118.82	End Shut-In(2)
123	2143.69	118.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
253.00	mcw 95%w 5%m	2.44
189.00	ocmw 5%o 75%w 20%m	2.65
218.00	ocmw 10%o 70%w 20%m	3.06
1.00	free oil 100%o	0.01

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63640 **DST#: 6**

Test Start: 2018.05.14 @ 14:21:47

GENERAL INFORMATION:

Formation: **LKC K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:44:47
Time Test Ended: 19:27:47

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

Interval: 4280.00 ft (KB) To 4325.00 ft (KB) (TVD)
Total Depth: 4325.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

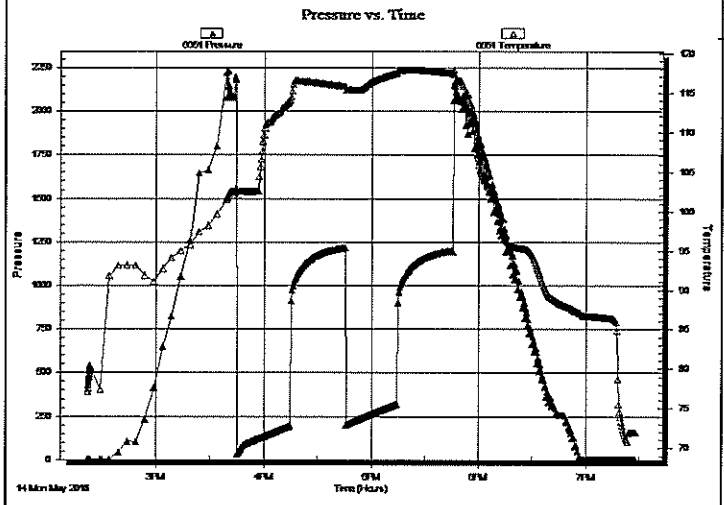
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: psig @ 4281.00 ft (KB)
Start Date: 2018.05.14 End Date: 2018.05.14
Start Time: 14:21:51 End Time: 19:27:45

Capacity: 8000.00 psig
Last Calib.: 2018.05.14
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 10 min. 26 1/2"
IS: No return.
FF: BOB in 12 min. 24"
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
253.00	mcw 95%w 5%m	2.44
189.00	ocmw 5%o 75%w 20%m	2.65
218.00	ocmw 10%o 70%w 20%m	3.06
1.00	free oil 100%o	0.01

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63640 **DST#: 6**

Test Start: 2018.05.14 @ 14:21:47

Tool Information

Drill Pipe:	Length:	4156.00 ft	Diameter:	3.80 inches	Volume:	58.30 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	
					Total Volume:	58.90 bbl	

Drill Pipe Above KB:	25.00 ft
Depth to Top Packer:	4280.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	45.00 ft
Tool Length:	72.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	30000.00 lb
Weight to Pull Loose:	85000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	70000.00 lb
Final	72000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4254.00		
Shut In Tool	5.00			4259.00		
Hydraulic tool	5.00			4264.00		
Jars	5.00			4269.00		
Safety Joint	2.00			4271.00		
Packer	5.00			4276.00	27.00	Bottom Of Top Packer
Packer	4.00			4280.00		
Stubb	1.00			4281.00		
Recorder	0.00	6651	Inside	4281.00		
Recorder	0.00	8166	Outside	4281.00		
Perforations	5.00			4286.00		
Change Over Sub	1.00			4287.00		
Drill Pipe	32.00			4319.00		
Change Over Sub	1.00			4320.00		
Bullnose	5.00			4325.00	45.00	Bottom Packers & Anchor
Total Tool Length:	**72.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63640 **DST#: 6**

Test Start: 2018.05.14 @ 14:21:47

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	30000 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

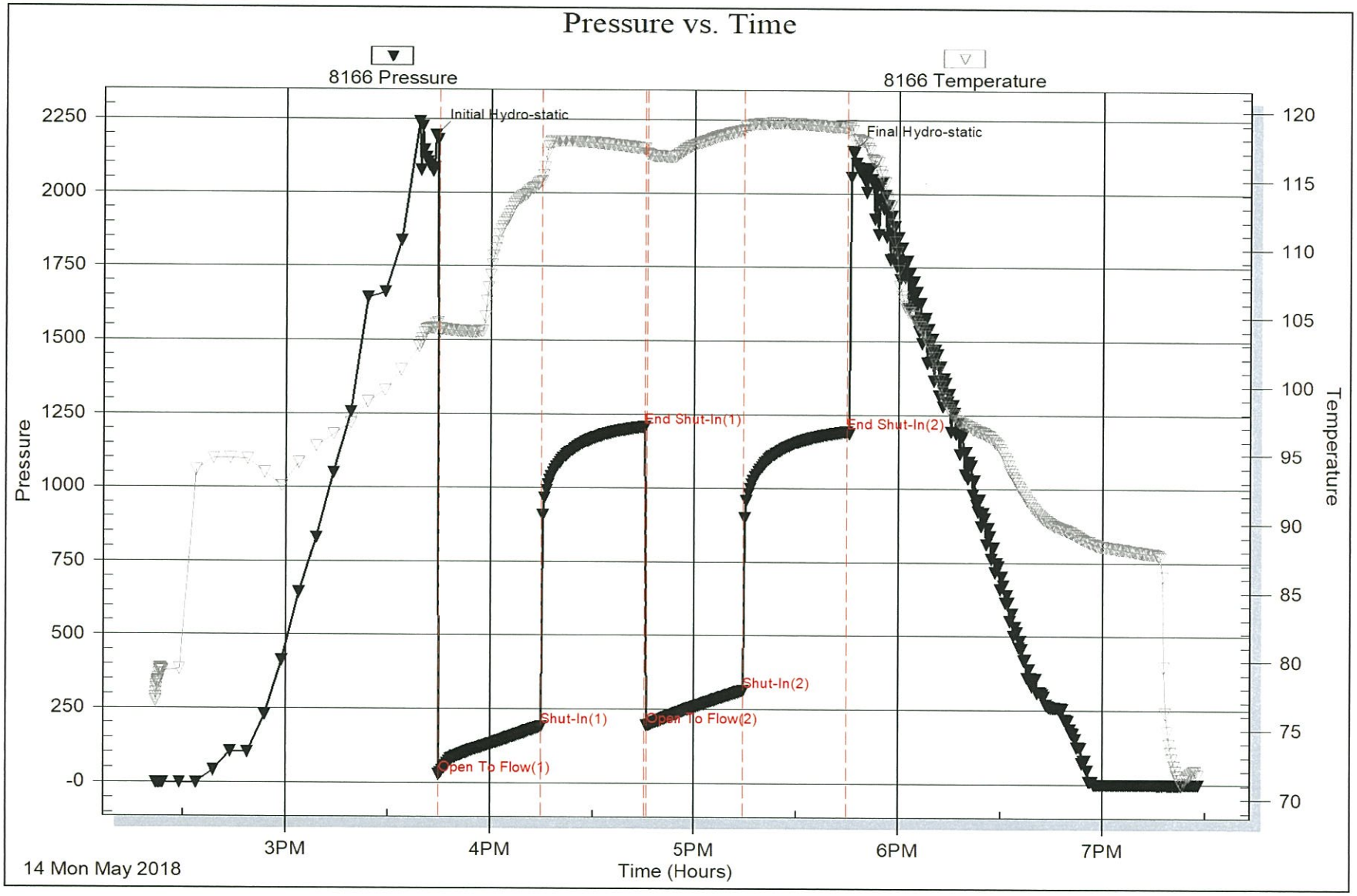
Recovery Table

Length ft	Description	Volume bbl
253.00	mcw 95%w 5%m	2.438
189.00	ocmw 5%o 75%w 20%m	2.651
218.00	ocmw 10%o 70%w 20%m	3.058
1.00	free oil 100%o	0.014

Total Length: 661.00 ft Total Volume: 8.161 bbl

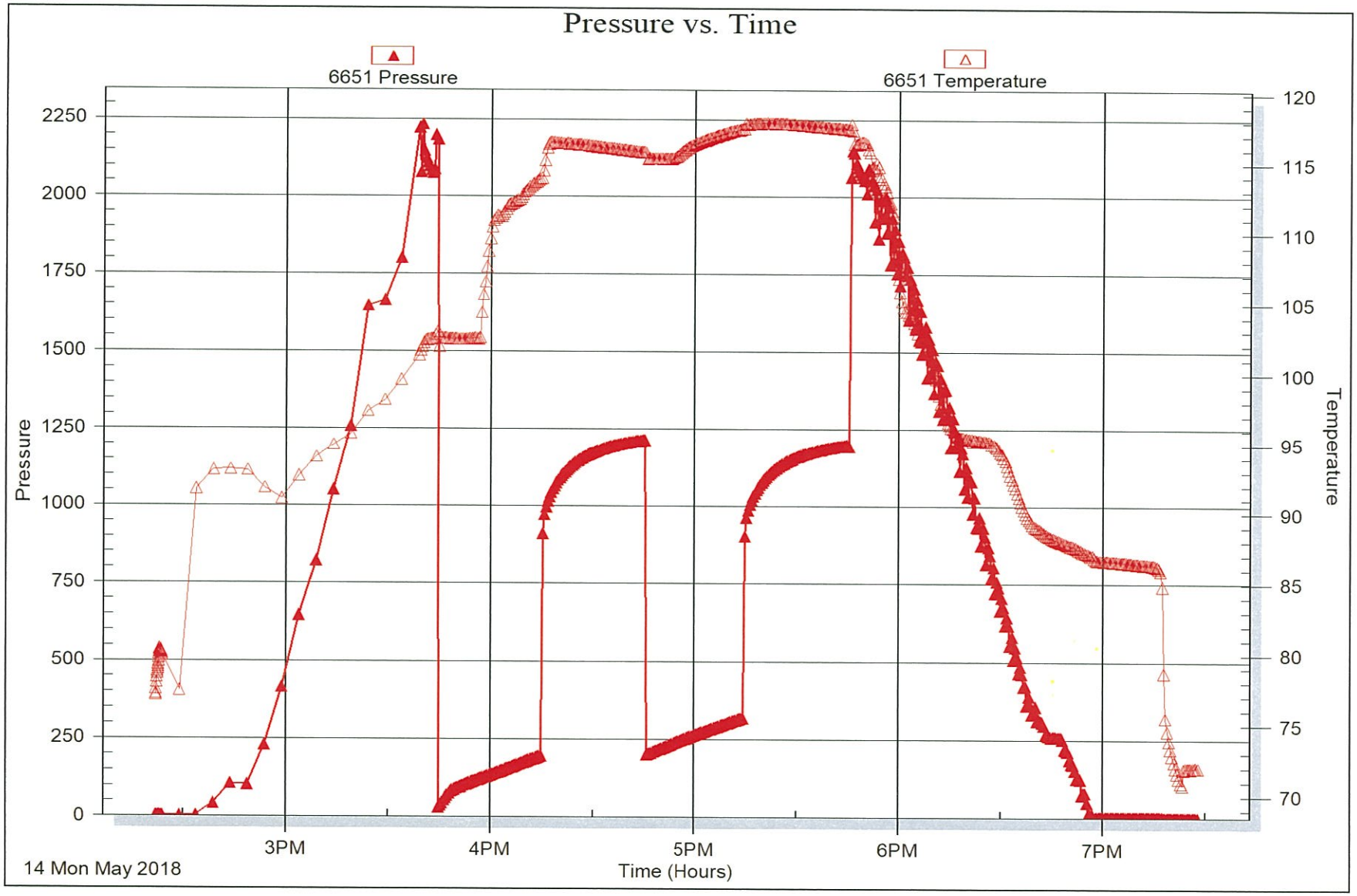
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .23@70=30000

Serial #: 8166 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 6



Trilobite Testing, Inc Ref. No: 63640 Printed: 2018.05.21 @ 13:47:29

Serial #: 6651 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 6



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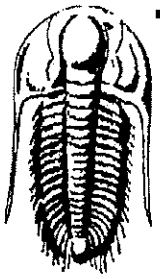


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.15 @ 16:54:34
End Date: 2018.05.15 @ 22:43:34
Job Ticket #: 63641 DST #: 7

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

Printed: 2018.05.21 @ 13:46:37

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63641 **DST#: 7**

Test Start: 2018.05.15 @ 16:54:34

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:48:34
Time Test Ended: 22:43:34

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

Interval: 4392.00 ft (KB) To 4513.00 ft (KB) (TVD)
Total Depth: 4513.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

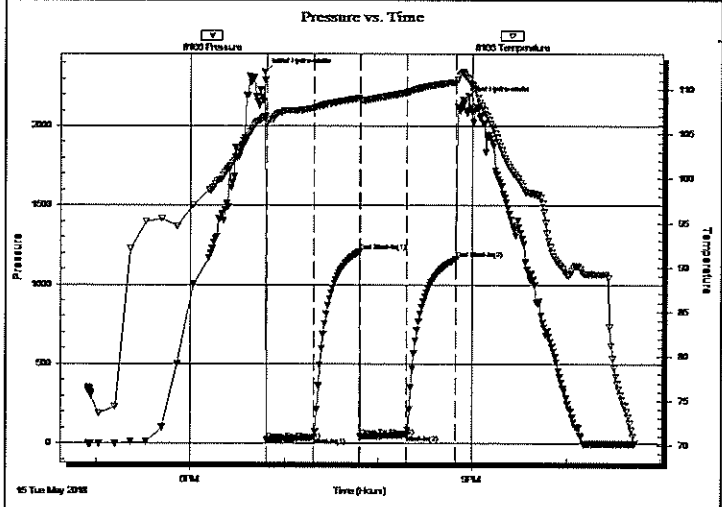
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 54.58 psig @ 4393.00 ft (KB)
Start Date: 2018.05.15 End Date: 2018.05.15
Start Time: 16:54:39 End Time: 22:43:33

Capacity: 8000.00 psig
Last Calib.: 2018.05.15
Time On Btm: 2018.05.15 @ 18:47:04
Time Off Btm: 2018.05.15 @ 20:54:04

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.29	106.93	Initial Hydro-static
2	20.84	106.24	Open To Flow (1)
32	35.97	107.88	Shut-In(1)
61	1207.28	109.03	End Shut-In(1)
62	40.68	108.78	Open To Flow (2)
91	54.58	109.65	Shut-In(2)
123	1161.11	110.81	End Shut-In(2)
127	2165.08	111.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	mud 100%m	0.39

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63641 **DST#: 7**

Test Start: 2018.05.15 @ 16:54:34

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:48:34
Time Test Ended: 22:43:34

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

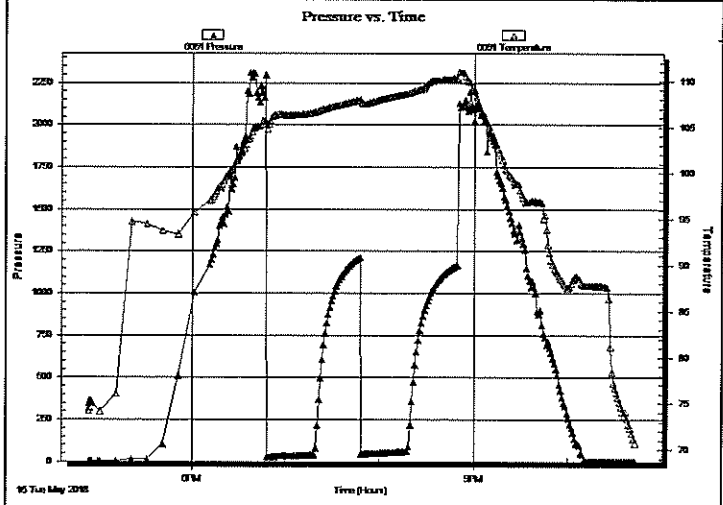
Interval: 4392.00 ft (KB) To 4513.00 ft (KB) (TVD)
Total Depth: 4513.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: psig @ 4393.00 ft (KB)
Start Date: 2018.05.15 End Date: 2018.05.15
Start Time: 16:54:24 End Time: 22:43:18

Capacity: 8000.00 psig
Last Calib.: 2018.05.15
Time On Btm:
Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	mud 100%m	0.39

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63641 **DST#: 7**

Test Start: 2018.05.15 @ 16:54:34

Tool Information

Drill Pipe:	Length:	4252.00 ft	Diameter:	3.80 inches	Volume:	59.64 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	85000.00 lb
					Total Volume:	60.24 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		9.00 ft					String Weight: Initial	72000.00 lb
Depth to Top Packer:		4392.00 ft					Final	72000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		121.00 ft						
Tool Length:		148.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4366.00		
Shut In Tool	5.00			4371.00		
Hydraulic tool	5.00			4376.00		
Jars	5.00			4381.00		
Safety Joint	2.00			4383.00		
Packer	5.00			4388.00	27.00	Bottom Of Top Packer
Packer	4.00			4392.00		
Stubb	1.00			4393.00		
Recorder	0.00	6651	Inside	4393.00		
Recorder	0.00	8166	Outside	4393.00		
Perforations	19.00			4412.00		
Change Over Sub	1.00			4413.00		
Drill Pipe	94.00			4507.00		
Change Over Sub	1.00			4508.00		
Bullnose	5.00			4513.00	121.00	Bottom Packers & Anchor
Total Tool Length:	**148.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63641 **DST#: 7**

Test Start: 2018.05.15 @ 16:54:34

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

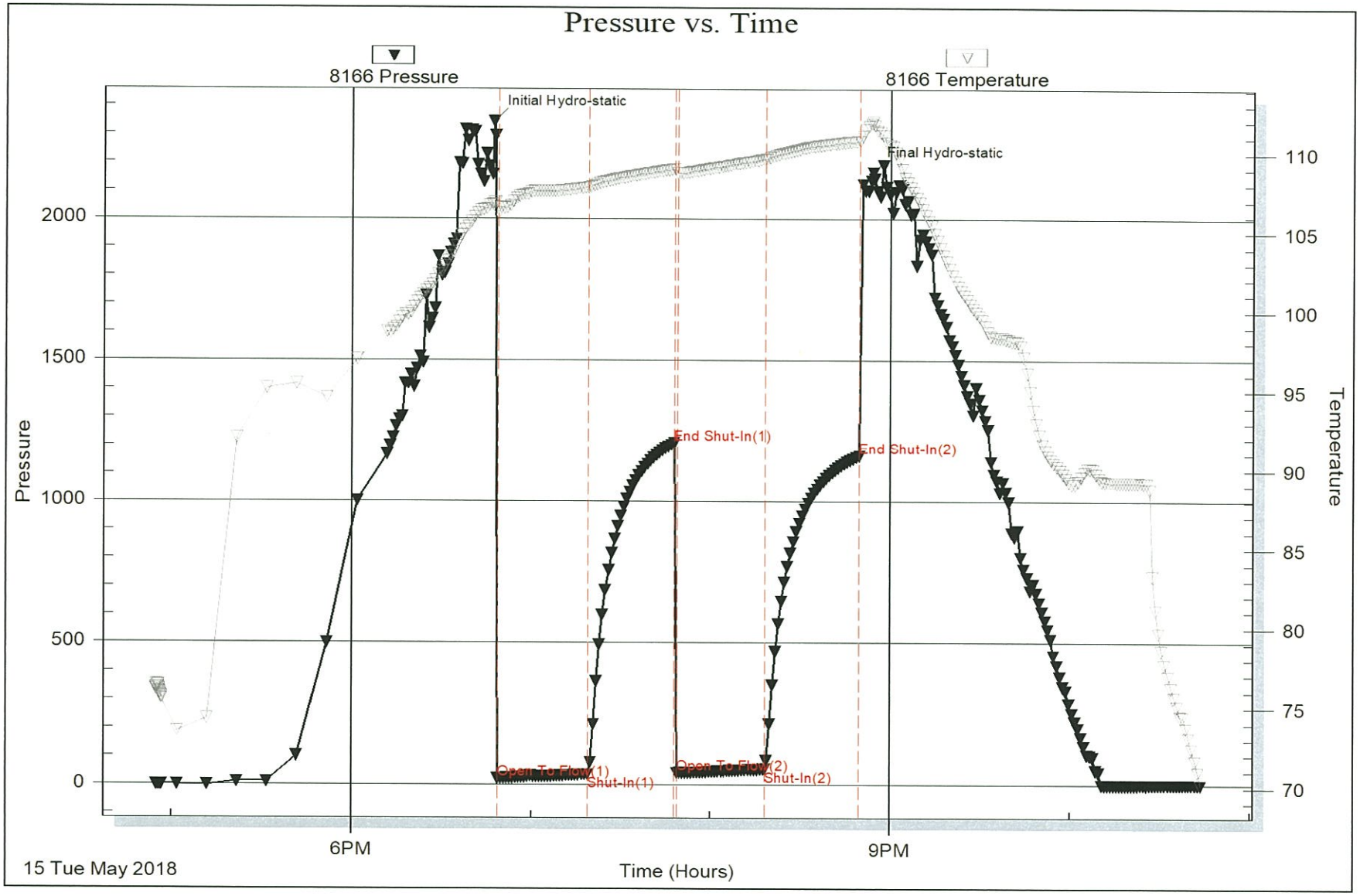
Recovery Table

Length ft	Description	Volume bbl
80.00	mud 100%m	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

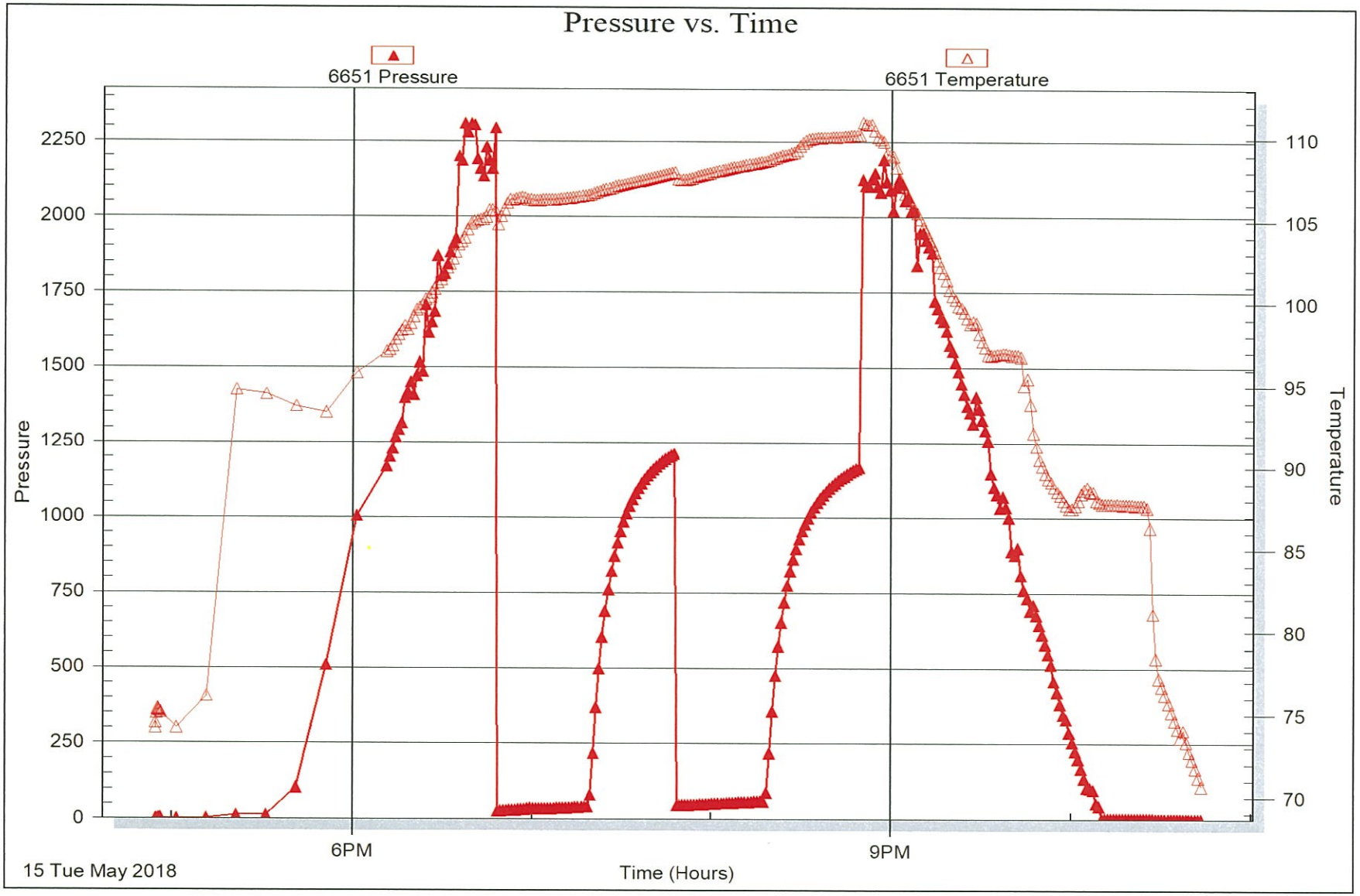
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8166 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 7



Trilobite Testing, Inc Ref. No: 63641 Printed: 2018.05.21 @ 13:46:38

Serial #: 6651 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 7



Trilobite Testing, Inc Ref. No: 63641 Printed: 2018.05.21 @ 13:46:38

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.16 @ 11:25:07
End Date: 2018.05.16 @ 16:31:07
Job Ticket #: 63642 DST #: 8

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

Printed: 2018.05.21 @ 13:46:13

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63642 **DST#: 8**

Test Start: 2018.05.16 @ 11:25:07

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:43:37
Time Test Ended: 16:31:07

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

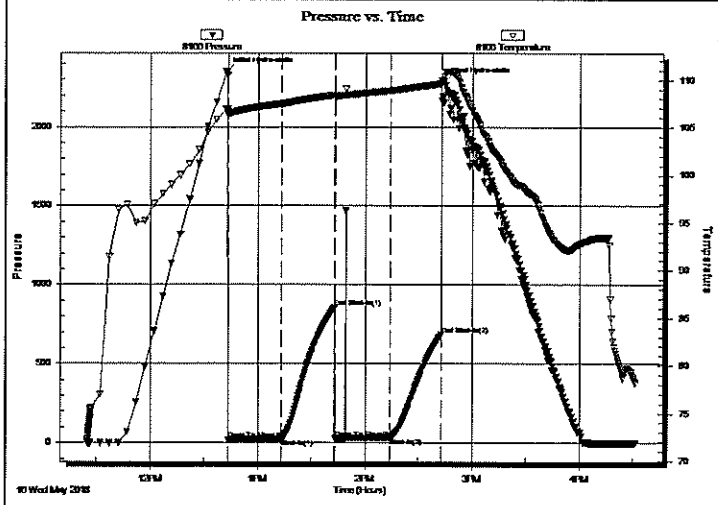
Interval: 4507.00 ft (KB) To 4610.00 ft (KB) (TVD)
Total Depth: 4610.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 34.30 psig @ 4508.00 ft (KB)
Start Date: 2018.05.16 End Date: 2018.05.16
Start Time: 11:25:12 End Time: 16:31:06

Capacity: 8000.00 psig
Last Calib.: 2018.05.16
Time On Btm: 2018.05.16 @ 12:42:07
Time Off Btm: 2018.05.16 @ 14:44:37

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2352.40	106.92	Initial Hydro-static
2	20.74	106.26	Open To Flow (1)
31	27.24	107.47	Shut-In(1)
61	857.00	108.37	End Shut-In(1)
62	27.78	108.09	Open To Flow (2)
92	34.30	108.87	Shut-In(2)
121	683.14	109.61	End Shut-In(2)
123	2292.57	110.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63642 **DST#: 8**

Test Start: 2018.05.16 @ 11:25:07

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:43:37
Time Test Ended: 16:31:07

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

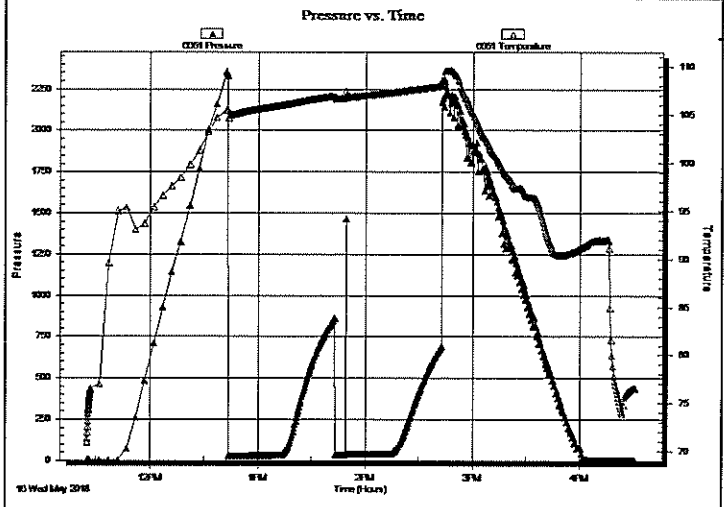
Interval: 4507.00 ft (KB) To 4610.00 ft (KB) (TVD)
Total Depth: 4610.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: psig @ 4508.00 ft (KB)
Start Date: 2018.05.16 End Date: 2018.05.16
Start Time: 11:25:05 End Time: 16:30:59

Capacity: 8000.00 psig
Last Calib.: 2018.05.16
Time On Btm:
Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 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

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63642 **DST#: 8**

Test Start: 2018.05.16 @ 11:25:07

Tool Information

Drill Pipe:	Length:	4376.00 ft	Diameter:	3.80 inches	Volume:	61.38 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:		90000.00 lb
					Total Volume:	61.98 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		4507.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		103.00 ft							
Tool Length:		130.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4481.00		
Shut In Tool	5.00			4486.00		
Hydraulic tool	5.00			4491.00		
Jars	5.00			4496.00		
Safety Joint	2.00			4498.00		
Packer	5.00			4503.00	27.00	Bottom Of Top Packer
Packer	4.00			4507.00		
Stubb	1.00			4508.00		
Recorder	0.00	6651	Inside	4508.00		
Recorder	0.00	8166	Outside	4508.00		
Perforations	1.00			4509.00		
Change Over Sub	1.00			4510.00		
Drill Pipe	94.00			4604.00		
Change Over Sub	1.00			4605.00		
Bullnose	5.00			4610.00	103.00	Bottom Packers & Anchor
Total Tool Length:	**130.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63642 **DST#: 8**

Test Start: 2018.05.16 @ 11:25:07

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

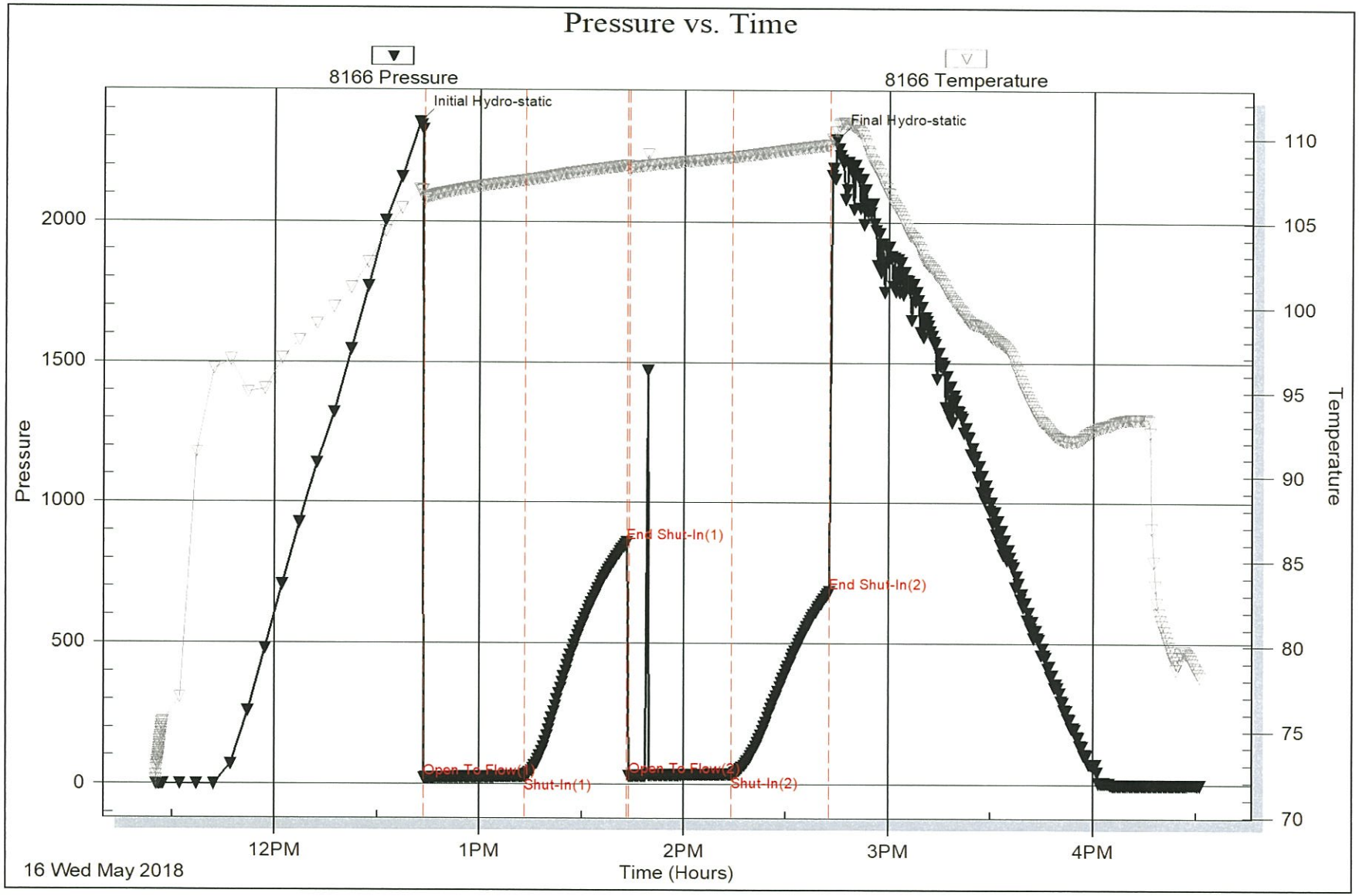
Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

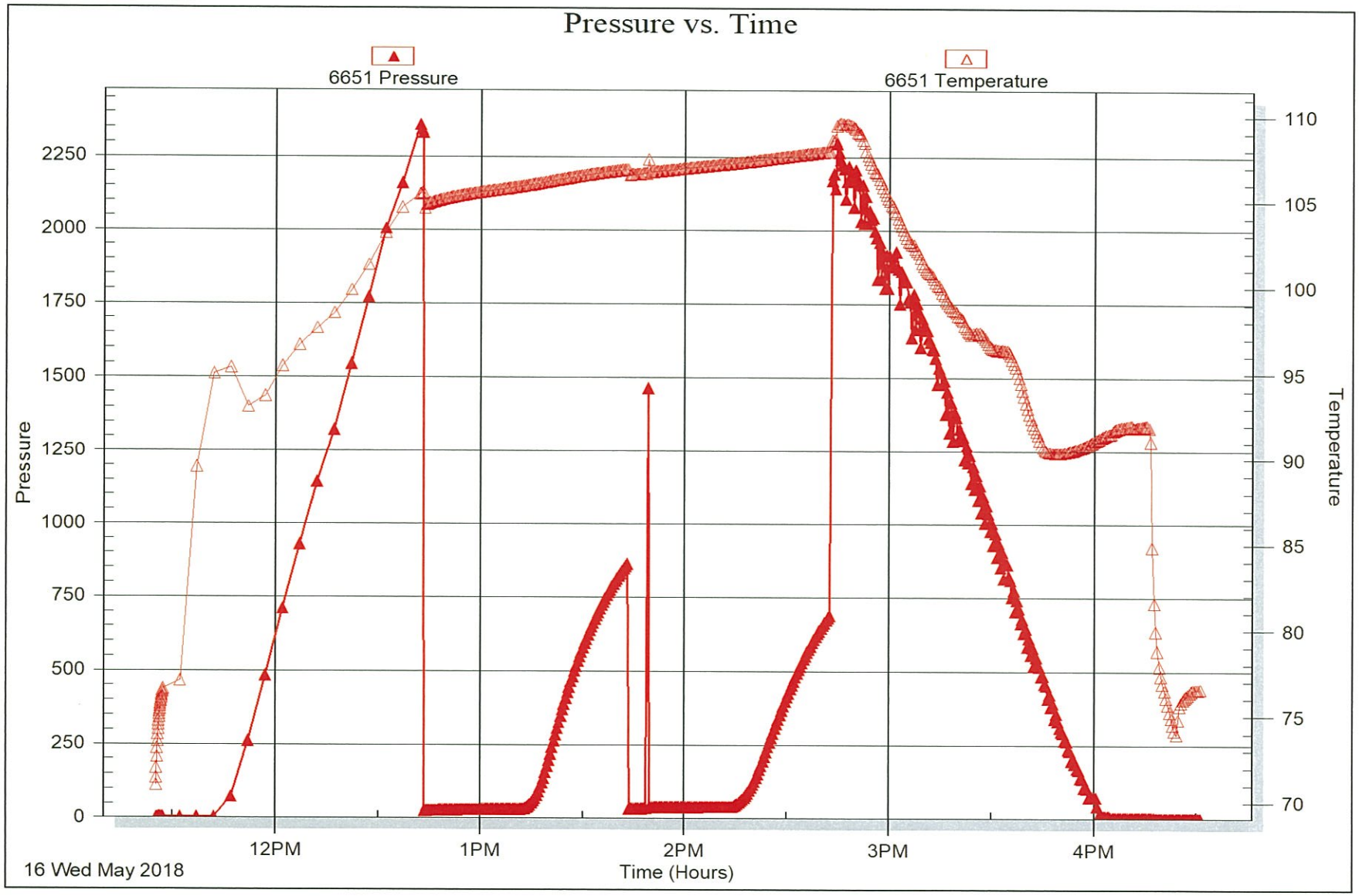
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8166 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 8



Trilobite Testing, Inc Ref. No: 63642 Printed: 2018.05.21 @ 13:46:14

Serial #: 6651 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 8



Trilobite Testing, Inc Ref. No: 63642 Printed: 2018.05.21 @ 13:46:14

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

C&N Enterprises #1

23-16s-36w Wichita,KS

Start Date: 2018.05.18 @ 10:18:15
End Date: 2018.05.18 @ 16:08:45
Job Ticket #: 63643 DST #: 9

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

Printed: 2018.05.21 @ 13:45:44

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63643 **DST#: 9**

Test Start: 2018.05.18 @ 10:18:15

GENERAL INFORMATION:

Formation: LKC I
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:00:15
Time Test Ended: 16:08:45

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

Interval: 4222.00 ft (KB) To 4260.00 ft (KB) (TVD)
Total Depth: 4979.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

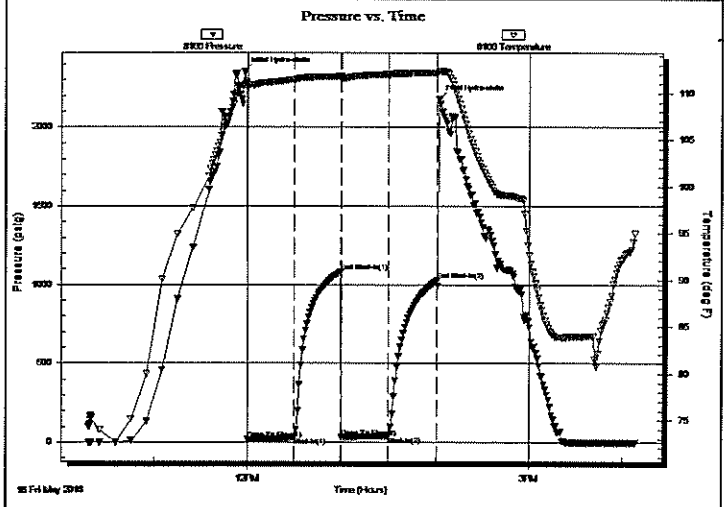
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 39.88 psig @ 4223.00 ft (KB)
Start Date: 2018.05.18 End Date: 2018.05.18
Start Time: 10:18:20 End Time: 16:08:44

Capacity: 8000.00 psig
Last Calib.: 2018.05.18
Time On Btm: 2018.05.18 @ 11:57:45
Time Off Btm: 2018.05.18 @ 14:02:15

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2357.87	110.90	Initial Hydro-static
3	18.54	110.44	Open To Flow (1)
32	30.58	111.44	Shut-In(1)
62	1082.98	111.78	End Shut-In(1)
63	33.15	111.43	Open To Flow (2)
92	39.88	111.99	Shut-In(2)
123	1026.22	112.14	End Shut-In(2)
125	2181.14	112.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%m	0.15

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
New ton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63643 **DST#: 9**

Test Start: 2018.05.18 @ 10:18:15

GENERAL INFORMATION:

Formation: **LKC I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:00:15
Time Test Ended: 16:08:45

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

Interval: 4222.00 ft (KB) To 4260.00 ft (KB) (TVD)
Total Depth: 4979.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

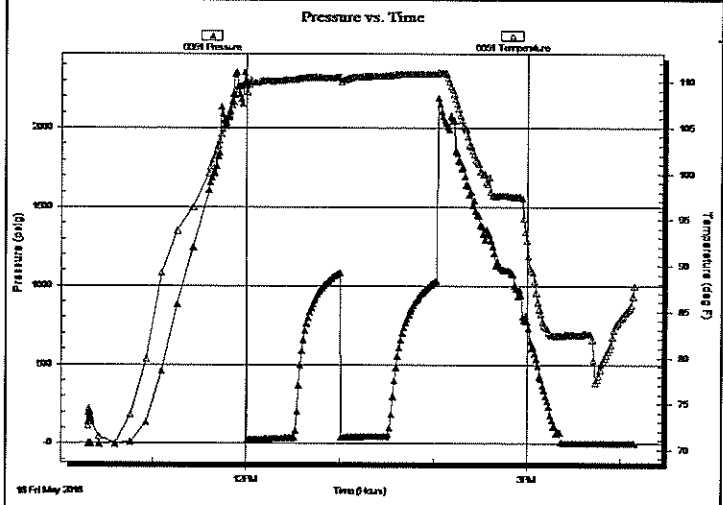
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: psig @ 4223.00 ft (KB)
Start Date: 2018.05.18 End Date: 2018.05.18
Start Time: 10:18:57 End Time: 16:09:21

Capacity: 8000.00 psig
Last Calib.: 2018.05.18
Time On Btm:
Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%m	0.15

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63643 DST#: 9

Test Start: 2018.05.18 @ 10:18:15

GENERAL INFORMATION:

Formation: **LKC I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:00:15
Time Test Ended: 16:08:45

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

Interval: 4222.00 ft (KB) To 4260.00 ft (KB) (TVD)
Total Depth: 4979.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

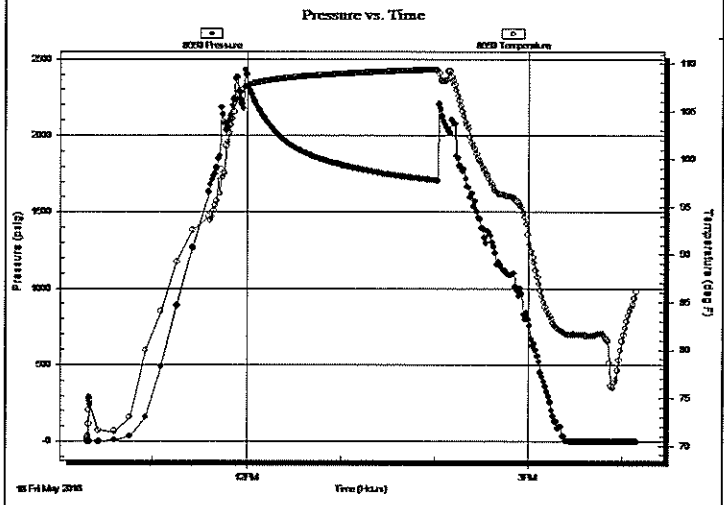
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8650 **Below (Straddle)**

Press@RunDepth: psig @ 4973.00 ft (KB)
Start Date: 2018.05.18 End Date: 2018.05.18
Start Time: 10:18:54 End Time: 16:09:18

Capacity: 8000.00 psig
Last Calib.: 2018.05.18
Time On Btm:
Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%m	0.15

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63643 **DST#: 9**

Test Start: 2018.05.18 @ 10:18:15

Tool Information

Drill Pipe:	Length:	4097.00 ft	Diameter:	3.80 inches	Volume:	57.47 bbl	Tool Weight:		15000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:		90000.00 lb
					Total Volume:	58.07 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		19.00 ft					String Weight:	Initial	80000.00 lb
Depth to Top Packer:		4222.00 ft						Final	80000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		757.00 ft							
Tool Length:		779.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4201.00		
Shut In Tool	5.00			4206.00		
Hydraulic tool	5.00			4211.00		
Safety Joint	2.00			4213.00		
Packer	5.00			4218.00	22.00	Bottom Of Top Packer
Packer	4.00			4222.00		
Stubb	1.00			4223.00		
Recorder	0.00	6651	Inside	4223.00		
Recorder	0.00	8166	Outside	4223.00		
Perforations	32.00			4255.00		
Blank Off Sub	1.00			4256.00		
Packer - Shale	5.00			4261.00		
Packer - Shale	4.00			4265.00		
Stubb	1.00			4266.00		
Perforations	8.00			4274.00		
Change Over Sub	1.00			4275.00		
Drill Pipe	698.00			4973.00		
Recorder	0.00	8650	Below	4973.00		
Change Over Sub	1.00			4974.00		
Bullnose	5.00			4979.00	757.00	Bottom Packers & Anchor
Total Tool Length:	**779.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63643 **DST#: 9**

Test Start: 2018.05.18 @ 10:18:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.18 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

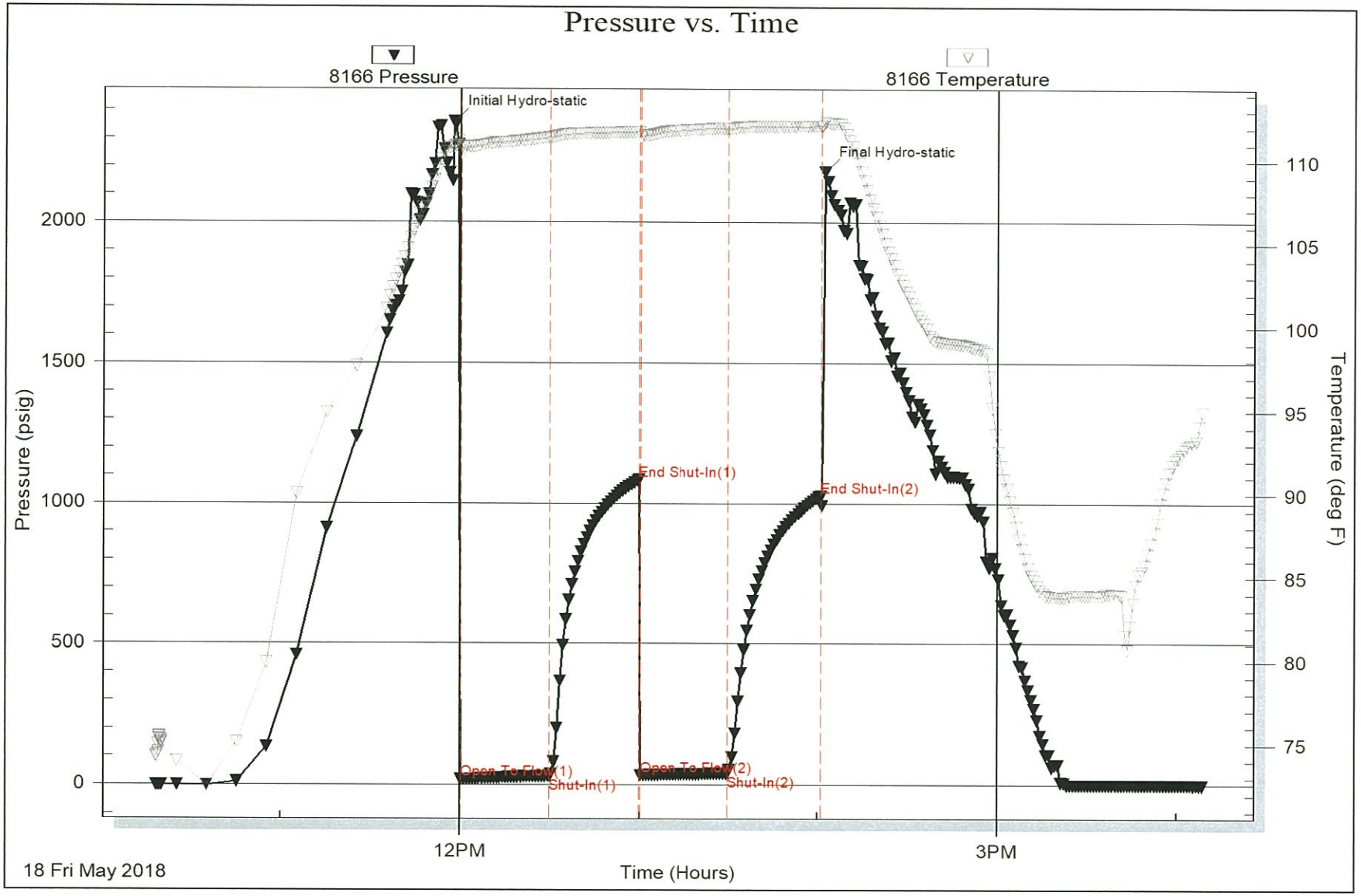
Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

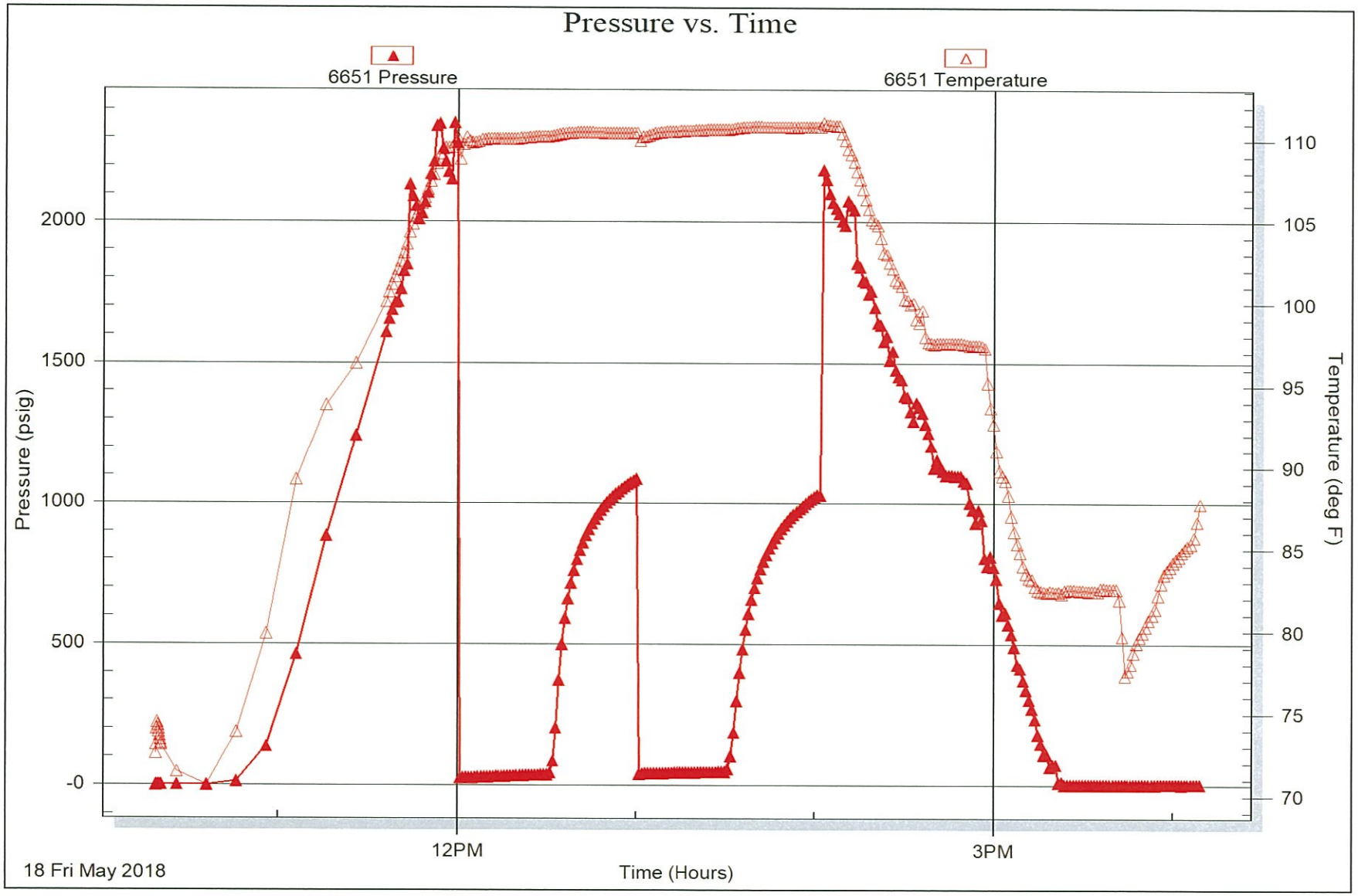
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8166 **Outside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 9



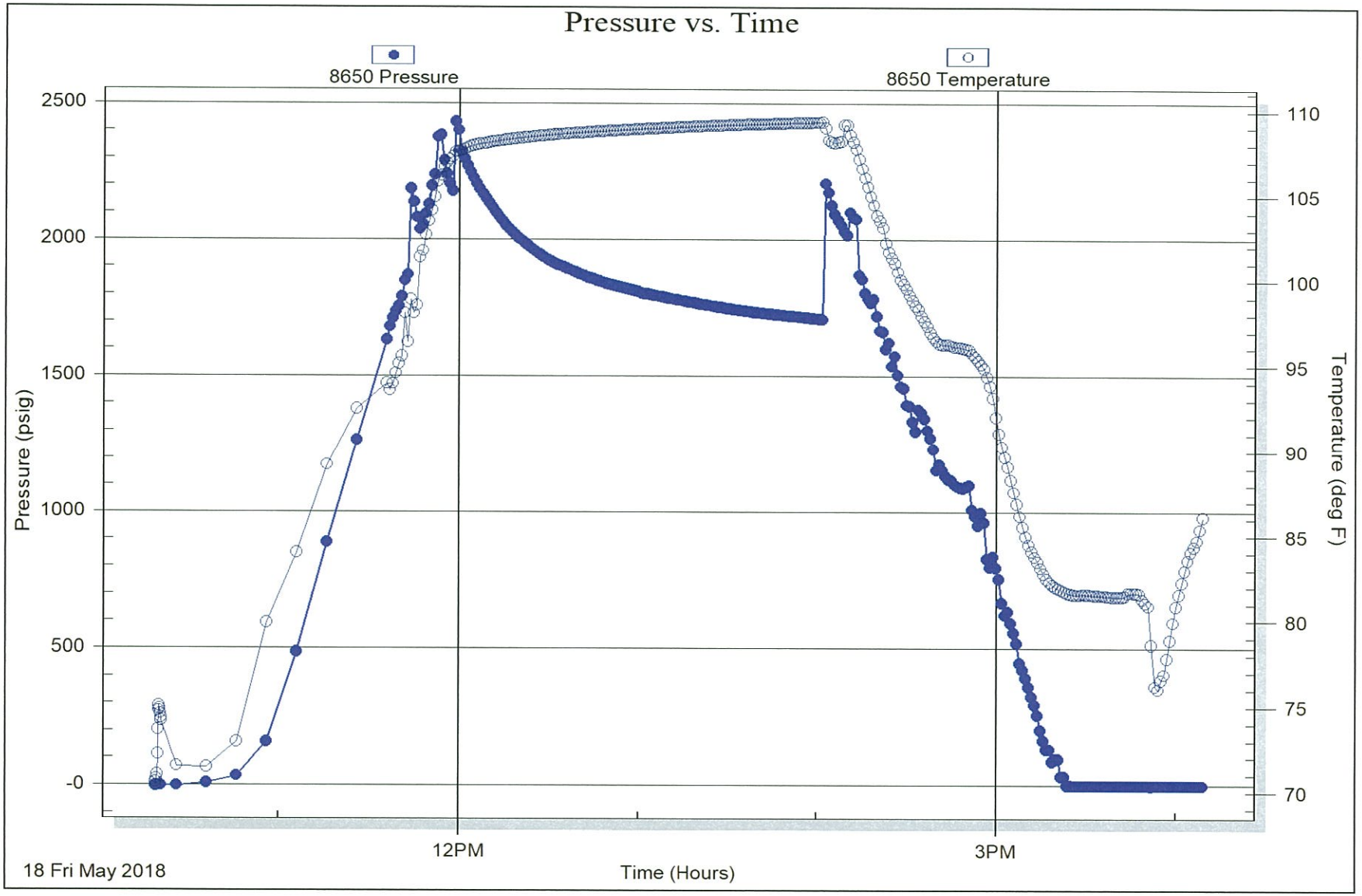
Trilobite Testing, Inc Ref. No: 63643 Printed: 2018.05.21 @ 13:45:46

Serial #: 6651 **Inside** Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 9



Trilobite Testing, Inc Ref. No: 63643 Printed: 2018.05.21 @ 13:45:46

Serial #: 8650 Below (Straddle) Palomino Petroleum, Inc C&N Enterprises #1 DST Test Number: 9



Trilobite Testing, Inc Ref. No: 63643 Printed: 2018.05.21 @ 13:45:46

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63670

Well Name & No. C & N Enterprises #1 Test No. 1 Date 5/11/2018

Company Palomino Petroleum, Inc Elevation 3886 KB 3928 GL

Address 4924 SE 84th St Newton, Ks 67114

Co. Rep / Geo. Andrew Stenzel Rig WW #10

Location: Sec. 23 Twp 16 s Rge. 36w Co. Wichita State Ks

Interval Tested 3886-3928 Zone Tested Topeka

Anchor Length 42 Drill Pipe Run 3745 Mud Wt. 8.9

Top Packer Depth 3881 Drill Collars Run 122 Vis 56

Bottom Packer Depth 3886 Wt. Pipe Run 0 WL 7.2

Total Depth 3928 Chlorides 3,000 ppm System LCM 2#

Blow Description IF: 2" blow

ISI: No return.

FF: 1¼" blow

FSI: No return.

Rec 100	Feet of mud	%gas	%oil	%water 100	%mud
Rec	Feet of oil spots	%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 100 BHT 103 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1876	☒ Test 1050	T-On Location 1000
(B) First Initial Flow 19	☒ Jars 250	T-Started 1017
(C) First Final Flow 35	☒ Safety Joint 75	T-Open 1136
(D) Initial Shut-In 1031	☒ Circ Sub N/A	T-Pulled 1340
(E) Second Initial Flow 30	☐ Hourly Standby	T-Out 1458
(F) Second Final Flow 53	☒ Mileage 69 RT 69	Comments
(G) Final Shut-In 935	☐ Sampler	
(H) Final Hydrostatic 1861	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1444
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1444	

Approved By _____ Our Representative _____

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63636

Well Name & No. C & N Enterprises #1 Test No. 2 Date 5-11-18

Company Palomino Petroleum Inc Elevation ~~3276~~ 3272 KB 3267 GL

Address

Co. Rep / Geo. Andrew Stenzel Rig WW #10

Location: Sec. 23 Twp 16S Rge. 36W Co. Wichita State KS

Interval Tested 3974 4023 Zone Tested Toronto

Anchor Length 49 Drill Pipe Run 3839 Mud Wt. 8.9

Top Packer Depth 3969 Drill Collars Run 122 Vis 56

Bottom Packer Depth 3974 Wt. Pipe Run — WL 7.2

Total Depth 4023 Chlorides 3000 ppm System LCM 2

Blow Description IF: BoB in 5 min. 56"
IS: No return.
FF: BoB in 8 min. 46"
FS: No return

Rec 355	Feet of wcm oil spots on top	%gas	%oil 40	%water 60	%mud	
Rec 630	Feet of mcw	%gas	%oil 90	%water 10	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 985 BHT 114 Gravity — API RW .16 @ 62 °F Chlorides 55,000 ppm

(A) Initial Hydrostatic 1960	☑ Test 1150	T-On Location 23:45
(B) First Initial Flow 79	☑ Jars 250	T-Started 00:32
(C) First Final Flow 297	☑ Safety Joint 75	T-Open 2:22
(D) Initial Shut-In 1056	☑ Circ Sub N/C	T-Pulled 4:22
(E) Second Initial Flow 297	☐ Hourly Standby	T-Out 6:21
(F) Second Final Flow 463	☑ Mileage 69 – 69	Comments
(G) Final Shut-In 1039	☐ Sampler	
(H) Final Hydrostatic 1912	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1544
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1544	

Approved By Our Representative

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. 63637

Well Name & No. C&N Enterprises #1 Test No. 3 Date 5-12-18
Company Palomino Petroleum Elevation 3272 KB 3287 GL
Address
Co. Rep / Geo. Andrew Stenzel Rig WW #10
Location: Sec. 23 Twp 16S Rge. 36W Co. Wichita State KS

Interval Tested 4026 4057 Zone Tested Lansing A-B
Anchor Length 31 Drill Pipe Run 3897 Mud Wt. 9.0
Top Packer Depth 4021 Drill Collars Run 122 Vis 50
Bottom Packer Depth 4026 Wt. Pipe Run — WL 7.2
Total Depth 4057 Chlorides 4000 ppm System LCM 2

Blow Description IF: BoB in 20 min. 14"
IS: No return.
FF: BoB in 23 min. 13"
FS: No return.

Rec 176	Feet of MW	%gas	%oil 50	%water 50	%mud	
Rec 189	Feet of MCW	%gas	%oil 90	%water 10	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 365 BHT 113 Gravity — API RW .15 @ 80 °F Chlorides 43,000 ppm

(A) Initial Hydrostatic 2053	☑ Test 1150	T-On Location 12:45	
(B) First Initial Flow 21	☑ Jars 250	T-Started 13:08	
(C) First Final Flow 115	☑ Safety Joint 75	T-Open 14:26	
(D) Initial Shut-In 1113	☑ Circ Sub N/C	T-Pulled 16:26	
(E) Second Initial Flow 118	☐ Hourly Standby	T-Out 18:05	
(F) Second Final Flow 177	☑ Mileage 69 ~~69~~	Comments	
(G) Final Shut-In 1105	☐ Sampler		
(H) Final Hydrostatic 1982	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 30	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0	
Final Flow 30	☐ Day Standby	Total 1544	
Final Shut-In 30	☐ Accessibility	MP/DST Disc't	
	Sub Total 1544		

Approved By Our Representative

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63638

Well Name & No. C & N Enterprises #1 Test No. 4 Date 5-13-18
Company Palomino Petroleum Elevation 3272 KB 3280 GL
Address
Co. Rep / Geo. Andrew Stenzel Rig WW #10
Location: Sec. 23 Twp 16S Rge. 36W Co. Wichita State KS

Interval Tested 4087 4152 Zone Tested Lansing C-F
Anchor Length 65 Drill Pipe Run 3966 Mud Wt. 9.0
Top Packer Depth 4082 Drill Collars Run 122 Vis 50
Bottom Packer Depth 4087 Wt. Pipe Run — WL 7.2
Total Depth 4152 Chlorides 4000 ppm System LCM 2

Blow Description IF: BoB in 3 min. 40"
IS: No return.
FF: BoB in 3 min. 42½"
FS: No return.

Rec 325	Feet of wcm	%gas	%oil 10	%water 90	%mud
Rec 252	Feet of mw	%gas	%oil 50	%water 50	%mud
Rec 252	Feet of mcw	%gas	%oil 90	%water 10	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 829 BHT 114 Gravity — API RW .28 @ 57 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic 2129	☑ Test 1150	T-On Location 5:45
(B) First Initial Flow 142	☑ Jars 250	T-Started 6:10
(C) First Final Flow 274	☑ Safety Joint 75	T-Open 7:47
(D) Initial Shut-In 1143	☑ Circ Sub N/C	T-Pulled 9:17
(E) Second Initial Flow 273	☐ Hourly Standby	T-Out 10:57
(F) Second Final Flow 408	☑ Mileage 69 — 69	Comments
(G) Final Shut-In 1139	☐ Sampler	
(H) Final Hydrostatic 1952	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 15	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 15	☐ Day Standby	Total 1544
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1544	

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.

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63639

Well Name & No. C & N Enterprises #1 Test No. 5 Date 5-13-18
Company Palomino Petroleum Elevation 3272 KB 3267 GL
Address
Co. Rep / Geo. Andrew Stenzel Rig WW #10
Location: Sec. 23 Twp 16S Rge. 36W Co. Wichita State KS

Interval Tested 4187 4224 Zone Tested Lansing H
Anchor Length 37 Drill Pipe Run 4061 Mud Wt. 9.4
Top Packer Depth 4182 Drill Collars Run 122 Vis 56
Bottom Packer Depth 4187 Wt. Pipe Run — WL 8.8
Total Depth 4224 Chlorides 6000 ppm System LCM 2

Blow Description IF: 1/4 blow built to 4½.
IS: No return.
FF: Surface blow built to 3.
FS: No return.

Rec 31	Feet of mud oil spots	%gas	%oil	%water 100	%mud
Rec 122	Feet of WCM	%gas	%oil 20	%water 80	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 153 BHT 111 Gravity — API RW .30 @ 59 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic 2131	☑ Test 1150	T-On Location 20:45
(B) First Initial Flow 17	☑ Jars 250	T-Started 21:17
(C) First Final Flow 64	☑ Safety Joint 75	T-Open 22:52
(D) Initial Shut-In 1120	☑ Circ Sub N/C	T-Pulled 00:57
(E) Second Initial Flow 68	☐ Hourly Standby	T-Out 2:34
(F) Second Final Flow 82	☑ Mileage 69 — 69	Comments
(G) Final Shut-In 1098	☐ Sampler	
(H) Final Hydrostatic 2060	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1544
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1544	

Approved By Our Representative

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63640

Well Name & No. C&N Enterprises #1 Test No. 6 Date 5-14-18
Company Palomino Petroleum Elevation 3272 KB 3267 GL
Address
Co. Rep / Geo. Andrew Stenzel Rig WW #10
Location: Sec. 23 Twp 16S Rge. 36W Co. Wichita State KS

Interval Tested 4280 4325 Zone Tested Lansing K
Anchor Length 45 Drill Pipe Run 4156 Mud Wt. 9.0
Top Packer Depth 4275 Drill Collars Run 122 Vis 56
Bottom Packer Depth 4280 Wt. Pipe Run — WL 8.8
Total Depth 4325 Chlorides 6200 ppm System LCM 1

Blow Description IF: BoB in 10 min. 26½"
IS: No return.
FF: BoB in 12 min. 24"
FS: No return.

Rec 1	Feet of Free oil	%gas 100	%oil	%water	%mud
Rec 218	Feet of OCMW	%gas 10	%oil 70	%water 20	%mud
Rec 189	Feet of OCMW	%gas 5	%oil 75	%water 20	%mud
Rec 253	Feet of MCW	%gas	%oil 95	%water 5	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 660 BHT 118 Gravity — API RW .23 @ 70 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic	2193	☑ Test	1150	T-On Location	13:45
(B) First Initial Flow	26	☑ Jars	250	T-Started	14:21
(C) First Final Flow	189	☑ Safety Joint	75	T-Open	15:44
(D) Initial Shut-In	1208	☑ Circ Sub	N/C	T-Pulled	17:44
(E) Second Initial Flow	193	☐ Hourly Standby		T-Out	19:29
(F) Second Final Flow	312	☑ Mileage	69 – 69	Comments	
(G) Final Shut-In	1192	☐ Sampler			
(H) Final Hydrostatic	2143	☐ Straddle			
		☐ Shale Packer		☐ Ruined Shale Packer	
Initial Open	30	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	30	☐ Extra Recorder		☐ Extra Copies	
Final Flow	30	☐ Day Standby		Sub Total	0
Final Shut-In	30	☐ Accessibility		Total	1544
		Sub Total	1544	MP/DST Disc't	

Approved By Our Representative

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63641

Well Name & No. C & N Enterprises Test No. 7 Date 5-15-18

Company Palomino Petroleum Elevation 3272 KB 3267 GL

Address

Co. Rep / Geo. Andrew Stenzel Rig WW #10

Location: Sec. 23 Twp 16S Rge. 36W Co. Wichita State KS

Interval Tested 4392 4513 Zone Tested Marmaton

Anchor Length 121 Drill Pipe Run 4252 Mud Wt. 9.2

Top Packer Depth 4387 Drill Collars Run 122 Vis 50

Bottom Packer Depth 4392 Wt. Pipe Run — WL 8.8

Total Depth 4513 Chlorides 7000 ppm System LCM 2

Blow Description IF: 1/4 blow built to 2.

ISI: No return.

FF: Surface blow built to 3/4.

FSI: No return.

Rec 80	Feet of mud	%gas	%oil	%water 100	%mud
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 80 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2341	☑ Test 1150	T-On Location 14:05
(B) First Initial Flow 20	☑ Jars 250	T-Started 16:54
(C) First Final Flow 35	☑ Safety Joint 75	T-Open 18:47
(D) Initial Shut-In 1207	☑ Circ Sub N/C	T-Pulled 20:47
(E) Second Initial Flow 40	☑ Hourly Standby 2½	T-Out 22:45
(F) Second Final Flow 54	☑ Mileage 80 – 69	Comments
(G) Final Shut-In 1161	☐ Sampler	
(H) Final Hydrostatic 2165	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1544
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1544	

Approved By Our Representative

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63642

Well Name & No. C&N Enterprises #1 Test No. 8 Date 5-16-18

Company Palomino Petroleum Elevation 3272 KB 3267 GL

Address

Co. Rep / Geo. Andrew Stenzel Rig WW #10

Location: Sec. 23 Twp 16S Rge. 36W Co. Wichita State KS

Interval Tested 4507 4610 Zone Tested Pawnee – Ft Scott

Anchor Length 103 Drill Pipe Run Mud Wt. 9.2

Top Packer Depth 4502 Drill Collars Run 122 Vis 54

Bottom Packer Depth 4507 Wt. Pipe Run — WL 9.6

Total Depth 4610 Chlorides 7800 ppm System LCM 3

Blow Description IF: 1/2 blow built to 1.

IS: No return.

FF: No blow, Flushed tool 1/2 blow.

FS: No return.

Rec 20	Feet of mud	%gas	%oil	%water 100	%mud
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 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2352	☑ Test	1150	T-On Location	11:20
(B) First Initial Flow	20	☑ Jars	250	T-Started	11:25
(C) First Final Flow	27	☑ Safety Joint	75	T-Open	12:44
(D) Initial Shut-In	857	☑ Circ Sub	N/C	T-Pulled	14:44
(E) Second Initial Flow	27	☐ Hourly Standby		T-Out	16:33
(F) Second Final Flow	34	☑ Mileage	80 – 69	Comments	
(G) Final Shut-In	683	☐ Sampler			
(H) Final Hydrostatic	2292	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	30	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	30	☐ Extra Recorder		Sub Total	0
Final Flow	30	☐ Day Standby		Total	1544
Final Shut-In	30	☐ Accessibility		MP/DST Disc't	
		Sub Total	1544		

Approved By Our Representative

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63643

Well Name & No. C & N Enterprises #1 Test No. 9 Date 5-18-18

Company Palomino Petroleum Elevation 3272 KB 3267 GL

Address

Co. Rep / Geo. Andrew Stenzel Rig WW #10

Location: Sec. 23 Twp 16S Rge. 36W Co. Wichita State KS

Interval Tested 4222 4260 Zone Tested Lansing F

Anchor Length 38 Drill Pipe Run 4097 Mud Wt. 9.4

Top Packer Depth 4222 Drill Collars Run 122 Vis 51

Bottom Packer Depth 4260 Wt. Pipe Run — WL 10.4

Total Depth 4979 Chlorides 8000 ppm System LCM 2

Blow Description IF: ½ blow built to 1¾.

IS: No return.

FF: Surface blow built to ½.

FS: No return.

Rec 30	Feet of mud	%gas	%oil	%water 100	%mud
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 30 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2357	☑ Test 1150	T-On Location 6:00	
(B) First Initial Flow 18	☑ Jars 250	T-Started 10:18	
(C) First Final Flow 30	☑ Safety Joint 75	T-Open 12:00	
(D) Initial Shut-In 1082	☑ Circ Sub N/C	T-Pulled 14:00	
(E) Second Initial Flow 33	☑ Hourly Standby	T-Out 16:10	
(F) Second Final Flow 39	☑ Mileage 80x2 69+69	Comments Mileage for going to get Extra packer	
(G) Final Shut-In 1026	☐ Sampler		
(H) Final Hydrostatic 2181	☑ Straddle 600	☐ Ruined Shale Packer	
	☑ Shale Packer x2 500	☐ Ruined Packer	
Initial Open 30	☑ Extra Packer 200	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 50	
Final Flow 30	☑ Day Standby 1.5d 1.5h	Total 2963	
Final Shut-In 30	☐ Accessibility	MP/DST Disc't	
	Sub Total 2913		

Approved By Our Representative

PALOMINO PETROLEUM, INC.
4924 SE 84th St. • Newton, Kansas 67114-8827
(316) 799-1000 • FAX (316) 799-2728

Lease Activity Report for Frye for the period of 10/1/2017 to 5/31/2018

Account		Debits	Credits
Frye			
10/1/2017	The Western Cooperative Electric Association, Inc. - power	$180.43	
10/1/2017	Bradee's Pumping Service, L.L.C. - contract pumping	$225.00	
10/1/2017	Palomino Petroleum, Inc. - overhead	$325.00	
10/10/2017	Nalco Company - 55 gal. emulsion breaker	$1,087.37	
10/31/2017	October 2017 LOE		$5,109.00
10/31/2017	Trego County Treasurer - 2017 Ad Valorem Taxes (half)	$3,291.20	
11/1/2017	The Western Cooperative Electric Association, Inc. - power	$170.82	
11/1/2017	Bradee's Pumping Service, L.L.C. - contract pumping	$225.00	
11/1/2017	Palomino Petroleum, Inc. - overhead	$325.00	
11/23/2017	Home Oil Co. - share of grease	$3.19	
11/30/2017	November 2017 LOE		$1,004.48
11/30/2017	KIOGA - share of annual membership dues	$16.40	
11/30/2017	Nalco Company - truck treat	$264.07	
12/1/2017	Western Coop. Electric Assn. - power	$190.07	
12/1/2017	Bradee's Pumping Service, L.L.C. - contract pumping	$225.00	
12/1/2017	Palomino Petroleum, Inc. - overhead	$325.00	
12/22/2017	Bradee's Pumping Service, L.L.C. - Christmas bonus	$100.00	
12/23/2017	Nalco Company - 21 gal. emulsion breaker	$585.55	
12/27/2017	Walker Tank Service, Inc. - pulled 80 bbls. producd water from gunbarrel	$356.00	
12/31/2017	December 2017 LOE		$1,781.62
1/1/2018	The Western Cooperative Electric Association, Inc. - power	$155.87	
1/1/2018	Bradee's Pumping Service, L.L.C. - contract pumping	$225.00	
1/1/2018	Palomino Petroleum, Inc. - overhead	$325.00	

Andrew Stenzel
Geologist
Ness City, Kansas
Home
(785) 798-3400
Cell
(785) 798-5977

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

Well Name:	C & N Enterprises #1		
Well Id:			
Location:	Sec. 23-16-36W (Wichita County)		
License Number:	15-203-20334	Region:	KANSAS
Spud Date:	5/7/18	Drilling Completed:	5/18/18
Surface Coordinates:	1682' FSL & 1253' FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	3267	K.B. Elevation (ft):	3272
Logged Interval (ft):	3600 To: TD	Total Depth (ft):	4979
Formation:	MISSISSIPPI		
Type of Drilling Fluid:	Mud-Co Chemical		

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:
5/7/18 MIRU, ran surface casing
5/8/18 Drilling @ 693'
5/9/18 Drilling @ 2724'
5/10/18 Drilling @ 3476'
5/11/18 DST #1
5/12/18 DST #2, DST #3
5/13/18 DST #4
5/14/18 DST #5, DST #6
5/15/18 Circulating for samples @ 4462', DST #7
5/16/18 Drilling @ 4590', DST #8
5/17/18 Drilling @ 4762'
5/18/18 Ran electric logs, DST #9, Plugged & Abandoned

Services

RIG: WW Drilling, Rig #10

MUD: MUDCO
LOGS: Gemini Wireline

Casing Record

SURFACE Casing: Ran 6 jts new 8 5/8", 23# casing @ 261'.

PRODUCTION Casing: None

Formation Tops

Sample Tops		Log Tops	
Anhy.	2510 (+762)	Anhy.	2454 (+818)
Base Anhy.	2527 (+745)	Base Anhy.	2524 (+748)
Tarkio	3610 (-338)	Tarkio	3610 (-338)
Topeka	3737 (-465)	Topeka	3739 (-467)
Heebner	3976 (-704)	Heebner	3977 (-705)
Toronto	3994 (-722)	Toronto	3995 (-723)
Lansing	4022 (-750)	Lansing	4025 (-753)
Muncie Cr	4193 (-921)	Muncie Cr	4200 (-928)
Stark Sh	4287 (-1015)	Stark Sh	4287 (-1015)
BKC	4369 (-1097)	BKC	4371 (-1099)
Marmaton	4431 (-1159)	Marmaton	4429 (-1157)
Pawnee	4512 (-1240)	Pawnee	4515 (-1243)
Myrick St	4552 (-1280)	Myrick St	4551 (-1279)
Ft. Scott	4568 (-1296)	Ft. Scott	4572 (-1300)
Cher. Sh.	4597 (-1325)	Cher. Sh.	4598 (-1326)
Morrow Sh	4739 (-1467)	Morrow Sh	4738 (-1466)
Miss.	4804 (-1532)	Miss.	4807 (-1535)
RTD	4978 (-1706)	LTD	4979 (-1707)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63670 **DST#: 1**

Test Start: 2018.05.11 @ 10:12:00

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:36:00
Time Test Ended: 14:58:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 79

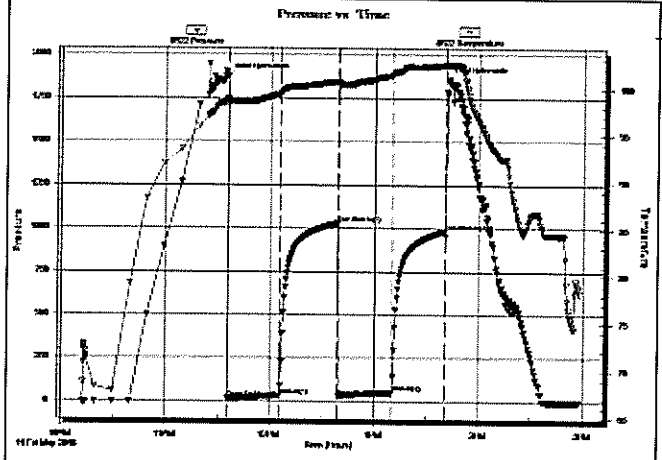
Interval: 3886.00 ft (KB) To 3928.00 ft (KB) (TVD)
Total Depth: 3928.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8522 **Inside**
Press@RunDepth: 52.96 psig @ 3887.00 ft (KB)
Start Date: 2018.05.11 End Date: 2018.05.11
Start Time: 10:12:05 End Time: 14:57:59

Capacity: 8000.00 psig
Last Calib.: 2018.05.11
Time On Btm: 2018.05.11 @ 11:35:45
Time Off Btm: 2018.05.11 @ 13:42:00

TEST COMMENT: IF: 2" blow.
ISI: No return.
FF: 1 1/4" blow.
FSI: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1875.52	99.92	Initial Hydro-static
1	18.91	98.19	Open To Flow (1)
30	35.36	99.35	Shut-In(1)
64	1030.54	100.74	End Shut-In(1)
64	30.33	100.08	Open To Flow (2)
95	52.96	101.37	Shut-In(2)
125	984.96	102.50	End Shut-In(2)
127	1860.67	102.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Mud 100m (oil spots)	0.49

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63636 **DST#: 2**

Test Start: 2018.05.12 @ 00:32:41

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:23:11
Time Test Ended: 06:20:41

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

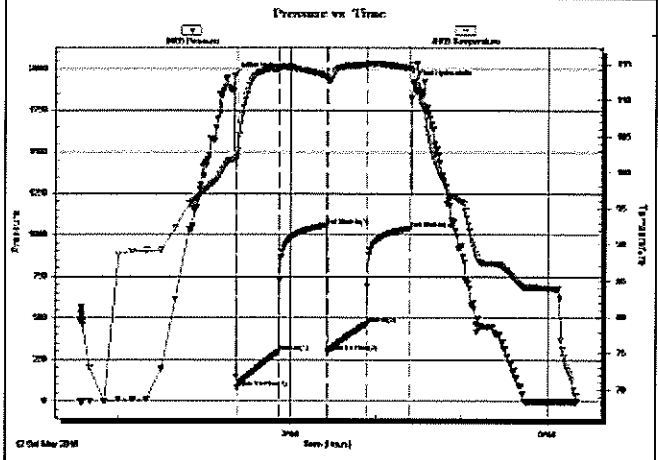
Interval: 3974.00 ft (KB) To 4023.00 ft (KB) (TVD)
Total Depth: 4023.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 463.82 psig @ 3975.00 ft (KB)
Start Date: 2018.05.12 End Date: 2018.05.12
Start Time: 00:32:46 End Time: 06:20:40

Capacity: 8000.00 psig
Last Calib.: 2018.05.12
Time On Btm: 2018.05.12 @ 02:21:41
Time Off Btm: 2018.05.12 @ 04:25:41

TEST COMMENT: IF: BOB in 5 min. 56"
IS: No return.
FF: BOB in 8 min. 46"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1960.66	101.92	Initial Hydro-static
2	79.92	102.12	Open To Flow (1)
31	297.39	114.29	Shut-In(1)
63	1056.76	113.19	End Shut-In(1)
64	297.12	112.93	Open To Flow (2)
92	463.82	114.88	Shut-In(2)
122	1039.13	114.36	End Shut-In(2)
124	1912.37	114.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 90%w 10%m	7.73
355.00	w cm oil spots on top 40%w 60%m	4.98

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63637 **DST#: 3**

Test Start: 2018.05.12 @ 13:08:16

GENERAL INFORMATION:

Formation: **LKC A-B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:27:16
Time Test Ended: 18:04:46

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

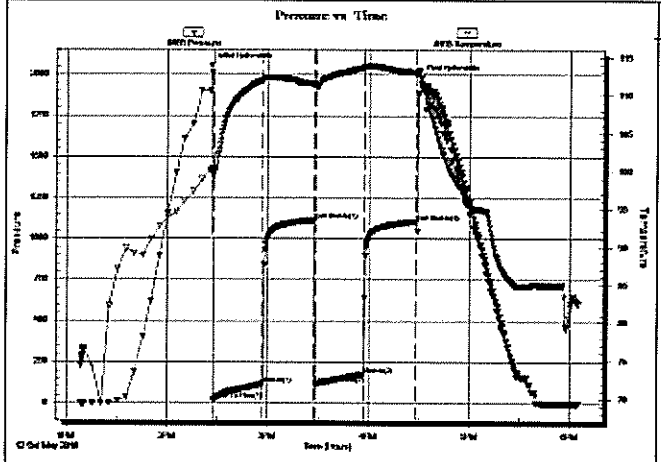
Interval: 4026.00 ft (KB) To 4057.00 ft (KB) (TVD)
Total Depth: 4057.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 177.92 psig @ 4027.00 ft (KB)
Start Date: 2018.05.12 End Date: 2018.05.12
Start Time: 13:08:21 End Time: 18:04:45

Capacity: 8000.00 psig
Last Callb.: 2018.05.12
Time On Btm: 2018.05.12 @ 14:26:16
Time Off Btm: 2018.05.12 @ 16:30:16

TEST COMMENT: IF: BOB in 20 min. 14"
IS: No return.
FF: BOB in 23 min. 13"
FS: No return.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.74	100.24	Initial Hydro-static
1	21.92	99.34	Open To Flow (1)
31	115.61	111.94	Shut-In(1)
62	1113.17	111.42	End Shut-In(1)
62	118.56	111.11	Open To Flow (2)
91	177.92	113.57	Shut-In(2)
122	1105.03	112.97	End Shut-In(2)
124	1982.22	113.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	1.54
176.00	mw 50%w 50%m	2.47

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63638 **DST#: 4**

Test Start: 2018.05.13 @ 06:10:42

GENERAL INFORMATION:

Formation: LKC C-F
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:48:42
Time Test Ended: 10:55:42

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

Interval: **4087.00 ft (KB) To 4152.00 ft (KB) (TVD)**
Total Depth: 4152.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

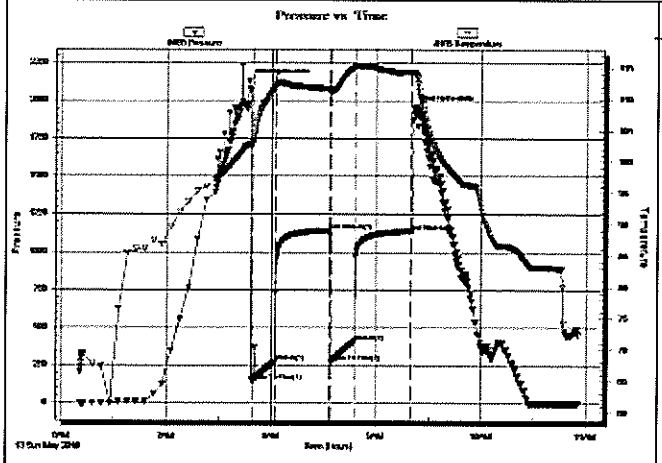
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 408.99 psig @ 4088.00 ft (KB)
Start Date: 2018.05.13 End Date: 2018.05.13
Start Time: 06:10:47 End Time: 10:55:41

Capacity: 8000.00 psig
Last Calib.: 2018.05.13
Time On Btm: 2018.05.13 @ 07:46:42
Time Off Btm: 2018.05.13 @ 09:21:12

TEST COMMENT: IF: BOB in 3 min. 40"
IS: No return.
FF: BOB in 3 min. 42 1/2"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.09	102.75	Initial Hydro-static
2	142.80	102.65	Open To Flow (1)
15	274.56	111.86	Shut-In(1)
46	1143.88	111.51	End Shut-In(1)
47	273.69	111.19	Open To Flow (2)
61	408.99	115.03	Shut-In(2)
93	1139.05	114.22	End Shut-In(2)
95	1952.03	114.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	mcw 90%w 10%m	2.42
252.00	mw 50%w 50%m	3.53
325.00	wcm 10%w 90%m	4.56

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63639 **DST#: 5**

Test Start: 2018.05.13 @ 21:17:24

GENERAL INFORMATION:

Formation: LKC H
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:52:54
Time Test Ended: 02:32:24

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

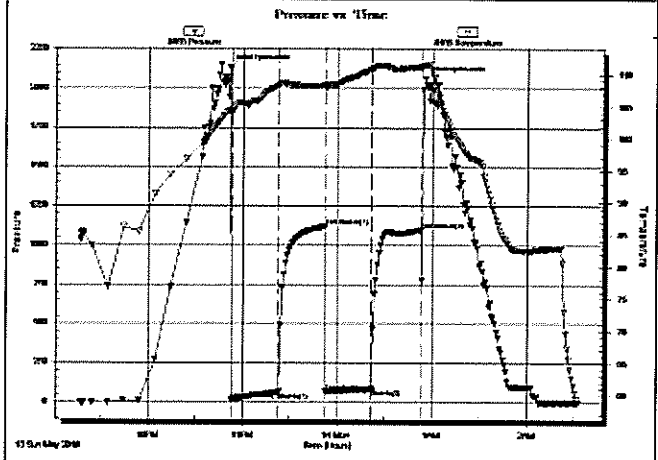
Interval: 4187.00 ft (KB) To 4224.00 ft (KB) (TVD)
Total Depth: 4224.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 82.91 psig @ 4188.00 ft (KB)
Start Date: 2018.05.13 End Date: 2018.05.14
Start Time: 21:17:29 End Time: 02:32:23

Capacity: 8000.00 psig
Last Calib.: 2018.05.14
Time On Btm: 2018.05.13 @ 22:51:54
Time Off Btm: 2018.05.14 @ 00:55:24

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



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.53	104.37	Initial Hydro-static
1	17.99	103.95	Open To Flow (1)
32	64.66	108.36	Shut-In(1)
61	1120.43	108.30	End Shut-In(1)
61	68.52	107.85	Open To Flow (2)
90	82.91	110.74	Shut-In(2)
121	1098.93	111.15	End Shut-In(2)
124	2060.54	111.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	w cm 20%w 80%m	0.60
31.00	mud oil spots 100%m	0.43

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63640 **DST#: 6**

Test Start: 2018.05.14 @ 14:21:47

GENERAL INFORMATION:

Formation: LKC K
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:44:47
Time Test Ended: 19:27:47

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

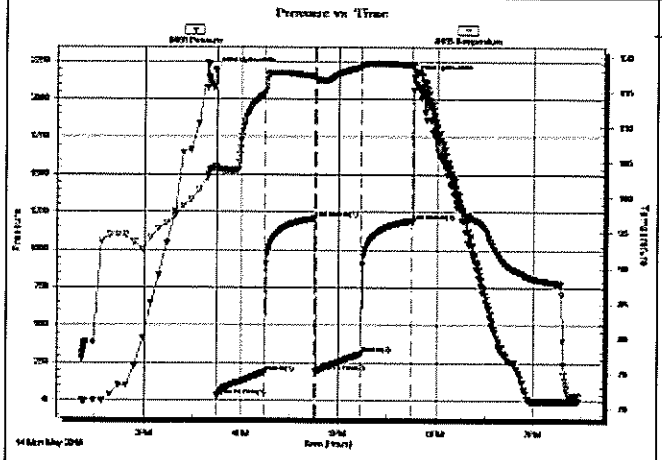
Interval: 4280.00 ft (KB) To 4325.00 ft (KB) (TVD)
Total Depth: 4325.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 312.12 psig @ 4281.00 ft (KB)
Start Date: 2018.05.14 End Date: 2018.05.14
Start Time: 14:21:52 End Time: 19:27:46

Capacity: 8000.00 psig
Last Calib.: 2018.05.14
Time On Btm: 2018.05.14 @ 15:43:47
Time Off Btm: 2018.05.14 @ 17:46:17

TEST COMMENT: IF: BOB in 10 min. 26 1/2"
IS: No return.
FF: BOB in 12 min. 24"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.94	104.41	Initial Hydro-static
1	26.93	103.79	Open To Flow (1)
31	189.66	114.85	Shut-In(1)
62	1208.37	117.25	End Shut-In(1)
62	193.30	116.89	Open To Flow (2)
91	312.12	118.62	Shut-In(2)
121	1192.91	118.82	End Shut-In(2)
123	2143.69	118.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
253.00	mcw 95%w 5%m	2.44
189.00	ocmw 5%o 75%w 20%m	2.65
218.00	ocmw 10%o 70%w 20%m	3.06
1.00	free oil 100%o	0.01

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63641 **DST#: 7**

Test Start: 2018.05.15 @ 16:54:34

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:48:34
Time Test Ended: 22:43:34

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

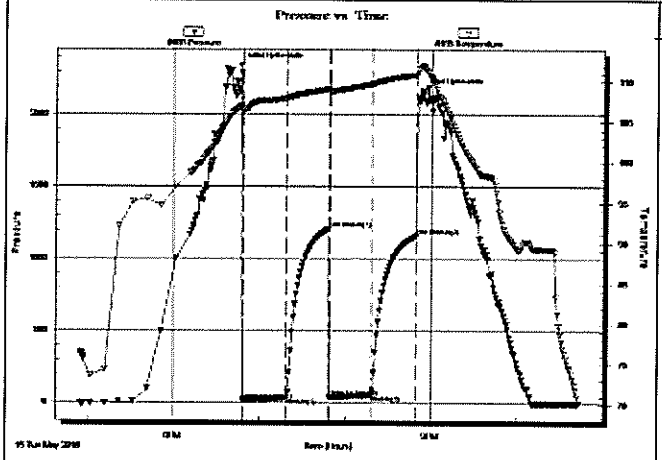
Interval: 4392.00 ft (KB) To 4513.00 ft (KB) (TVD)
Total Depth: 4513.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 54.58 psig @ 4393.00 ft (KB)
Start Date: 2018.05.15 End Date: 2018.05.15
Start Time: 16:54:39 End Time: 22:43:33

Capacity: 8000.00 psig
Last Calib.: 2018.05.15
Time On Btm: 2018.05.15 @ 18:47:04
Time Off Btm: 2018.05.15 @ 20:54:04

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.29	106.93	Initial Hydro-static
2	20.84	106.24	Open To Flow (1)
32	35.97	107.88	Shut-In(1)
61	1207.28	109.03	End Shut-In(1)
62	40.68	108.78	Open To Flow (2)
91	54.58	109.65	Shut-In(2)
123	1161.11	110.81	End Shut-In(2)
127	2165.08	111.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	mud 100%m	0.39

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63642 **DST#: 8**

Test Start: 2018.05.16 @ 11:25:07

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:43:37
Time Test Ended: 16:31:07

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

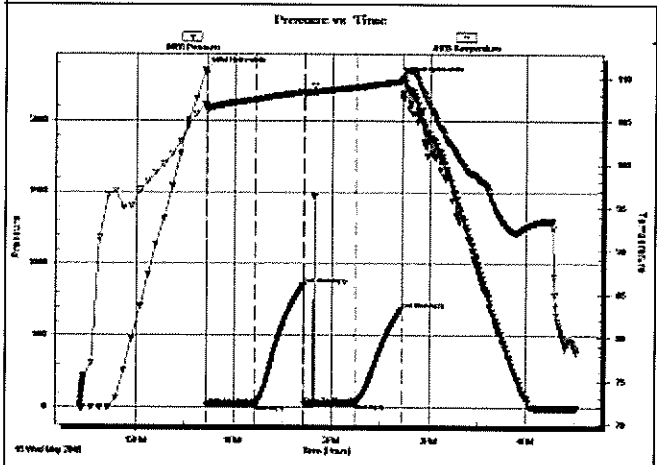
Interval: 4507.00 ft (KB) To 4610.00 ft (KB) (TVD)
Total Depth: 4610.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: 34.30 psig @ 4508.00 ft (KB)
Start Date: 2018.05.16 End Date: 2018.05.16
Start Time: 11:25:12 End Time: 16:31:06

Capacity: 8000.00 psig
Last Calib.: 2018.05.16
Time On Btm: 2018.05.16 @ 12:42:07
Time Off Btm: 2018.05.16 @ 14:44:37

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2352.40	106.92	Initial Hydro-static
2	20.74	106.26	Open To Flow (1)
31	27.24	107.47	Shut-In(1)
61	857.00	108.37	End Shut-In(1)
62	27.78	108.09	Open To Flow (2)
92	34.30	108.87	Shut-In(2)
121	683.14	109.61	End Shut-In(2)
123	2292.57	110.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 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

Palomino Petroleum, Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

23-16s-36w Wichita,KS

C&N Enterprises #1

Job Ticket: 63643 **DST#: 9**

Test Start: 2018.05.18 @ 10:18:15

GENERAL INFORMATION:

Formation: LKC I
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:00:15
Time Test Ended: 16:08:45

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

Interval: 4222.00 ft (KB) To 4260.00 ft (KB) (TVD)
Total Depth: 4979.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

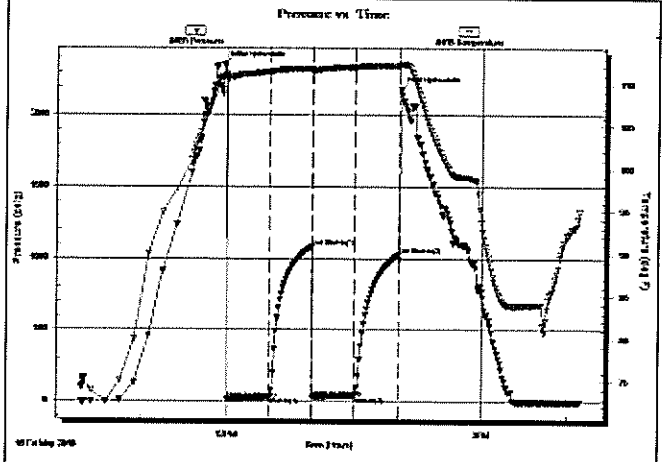
Reference Elevations: 3272.00 ft (KB)
3267.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 39.88 psig @ 4223.00 ft (KB)
Start Date: 2018.05.18 End Date: 2018.05.18
Start Time: 10:18:20 End Time: 16:08:44

Capacity: 8000.00 psig
Last Calib.: 2018.05.18
Time On Btm: 2018.05.18 @ 11:57:45
Time Off Btm: 2018.05.18 @ 14:02:15

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2357.87	110.90	Initial Hydro-static
3	18.54	110.44	Open To Flow (1)
32	30.58	111.44	Shut-In(1)
62	1082.98	111.78	End Shut-In(1)
63	33.15	111.43	Open To Flow (2)
92	39.88	111.99	Shut-In(2)
123	1026.22	112.14	End Shut-In(2)
125	2181.14	112.37	Final Hydro-static

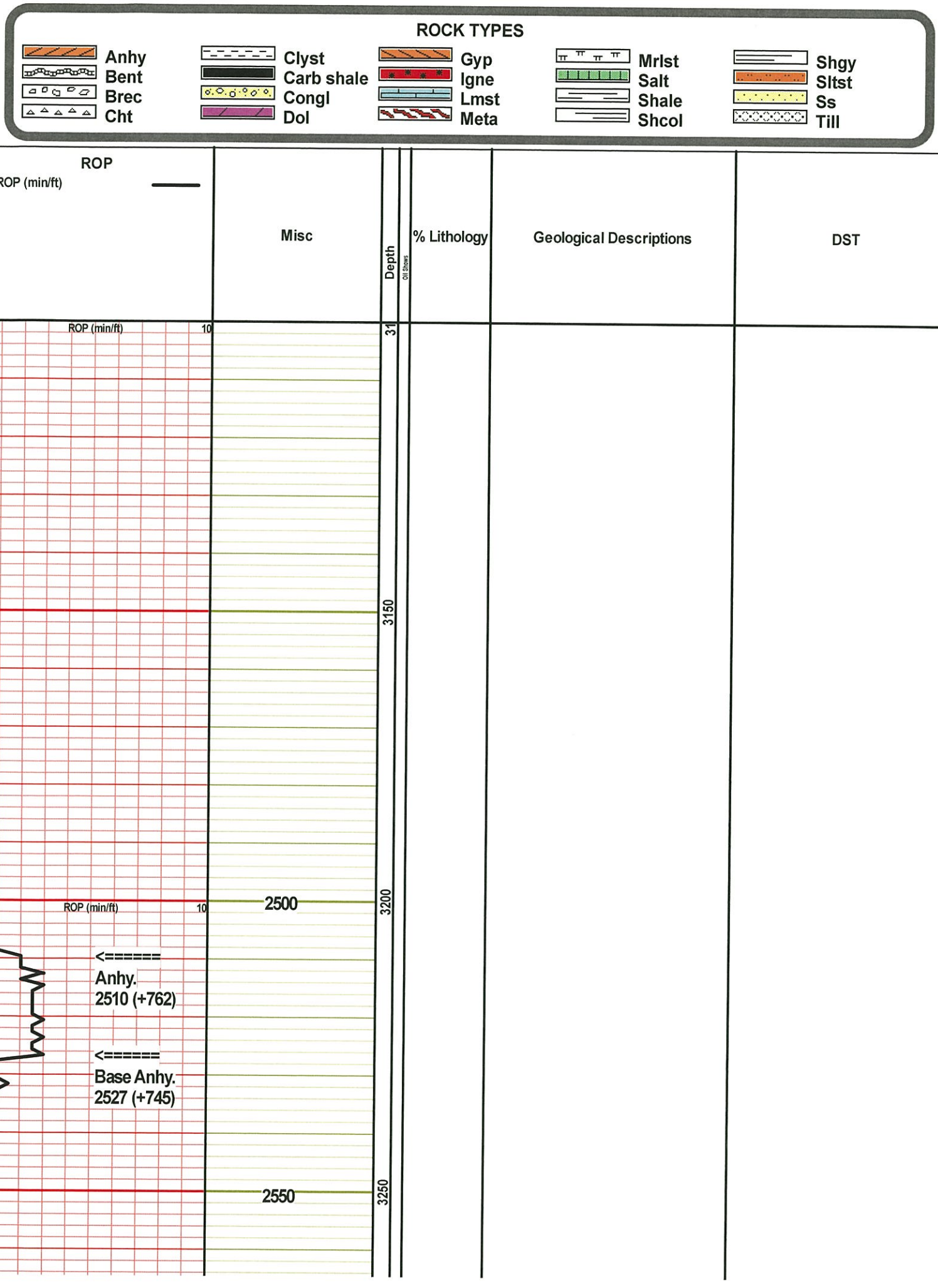
Recovery

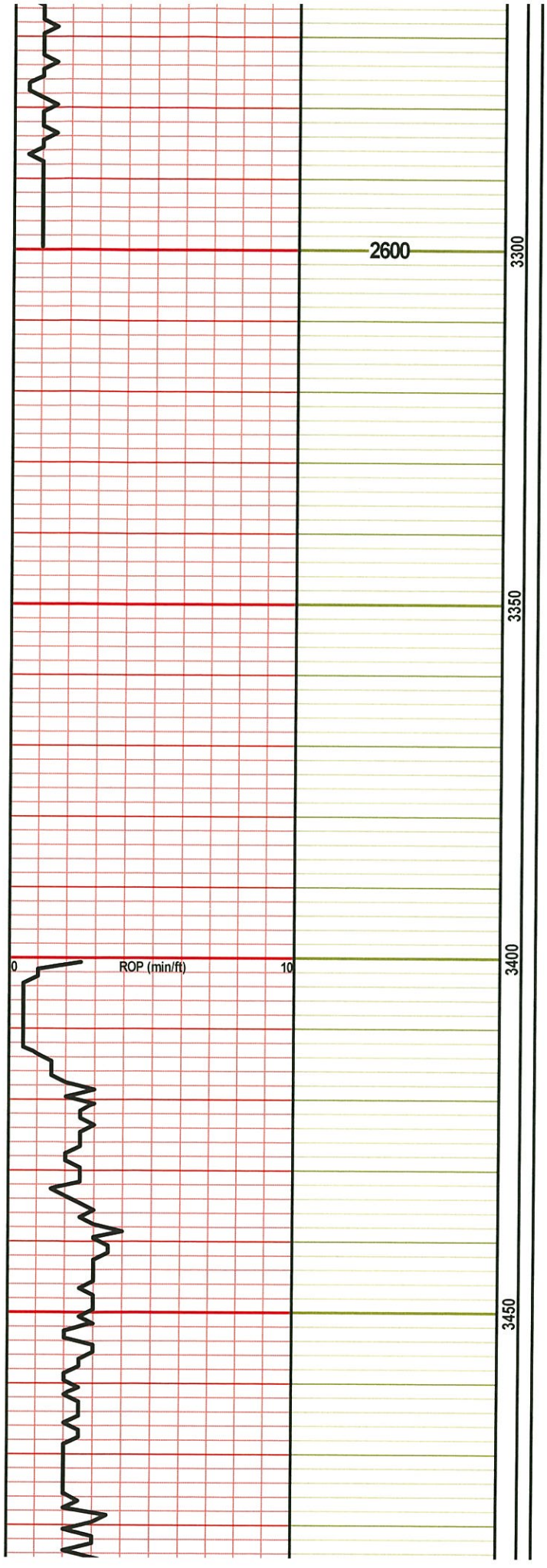
Length (ft)	Description	Volume (bbl)
30.00	mud 100%m	0.15

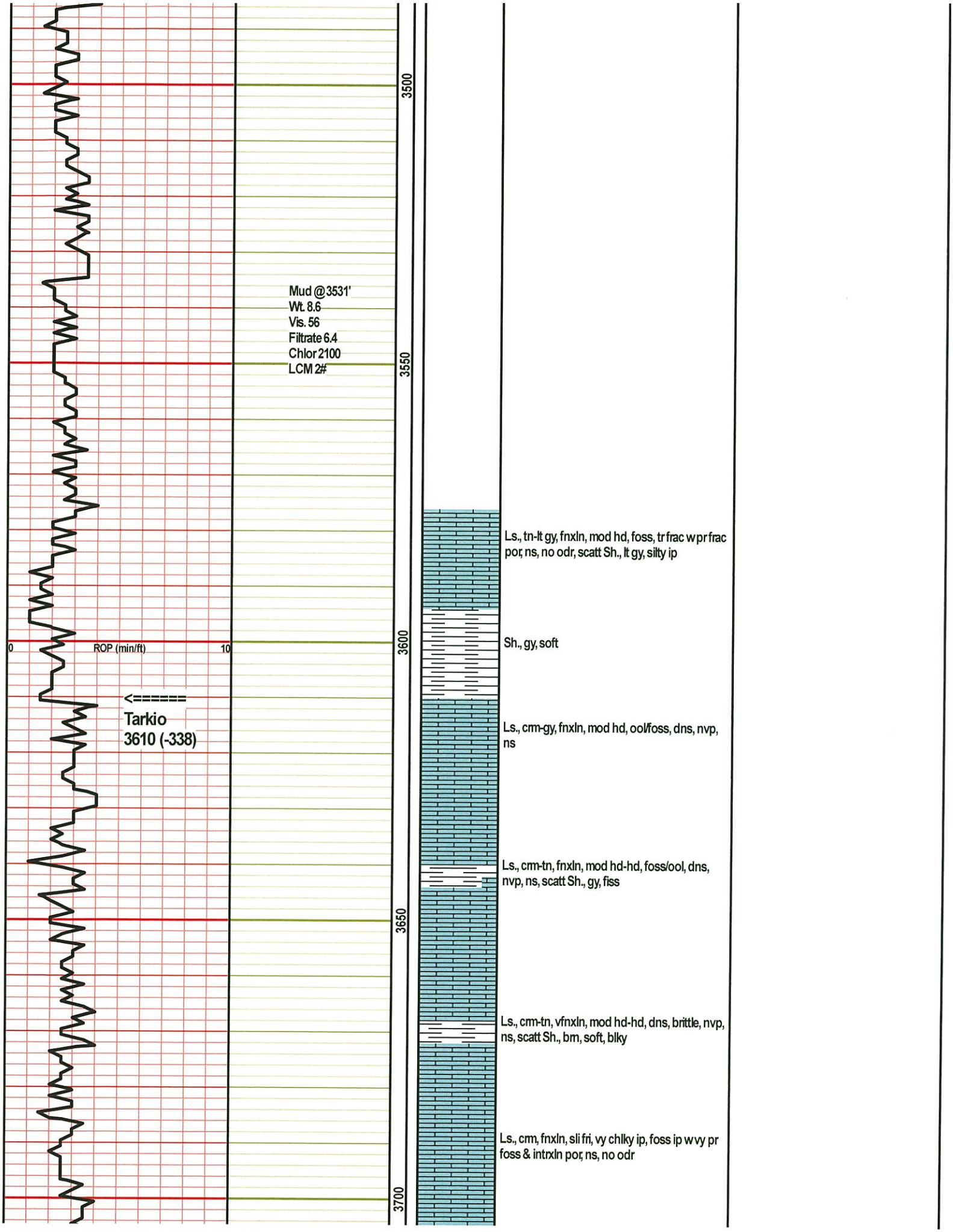
* Recovery from multiple tests

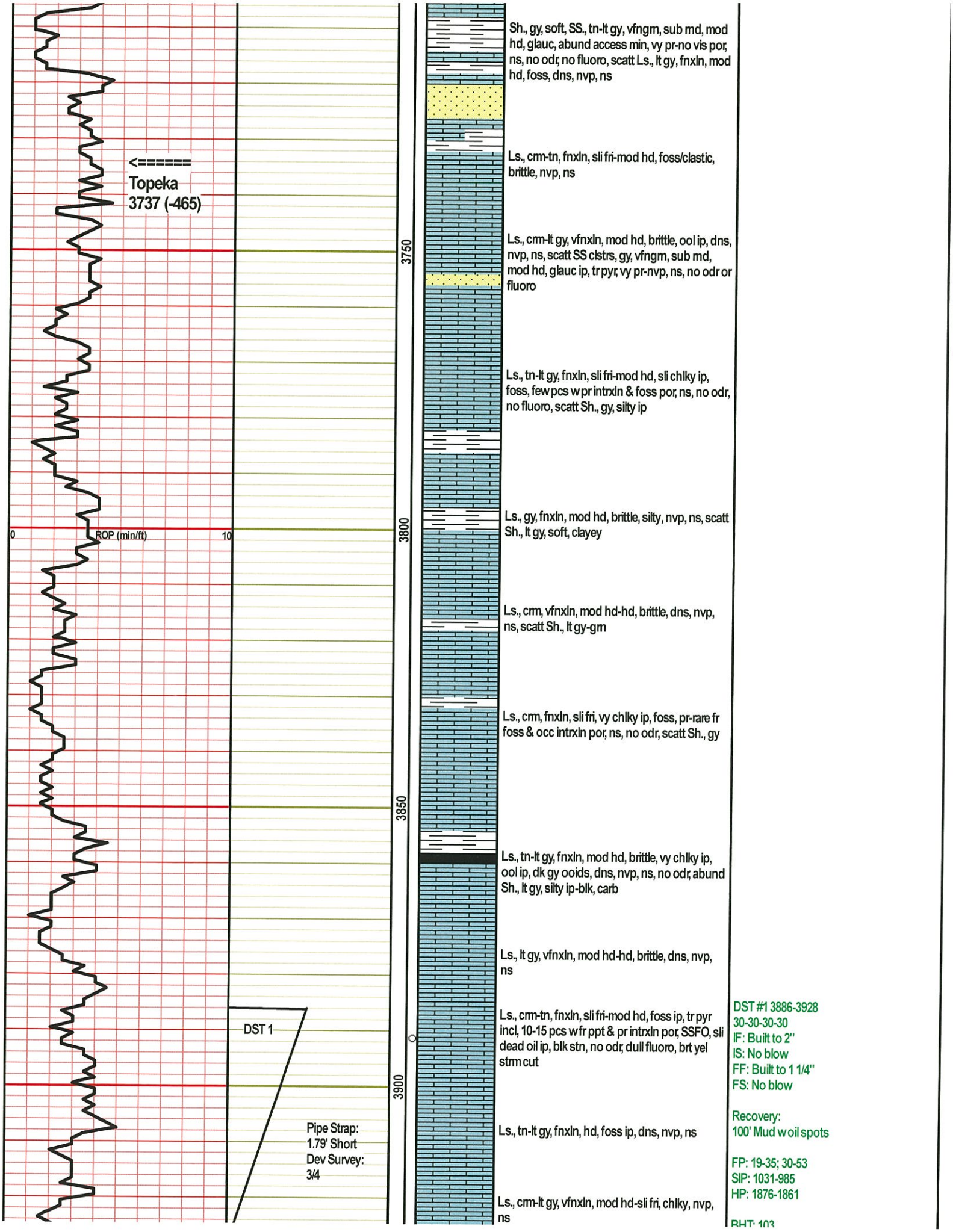
Gas Rates

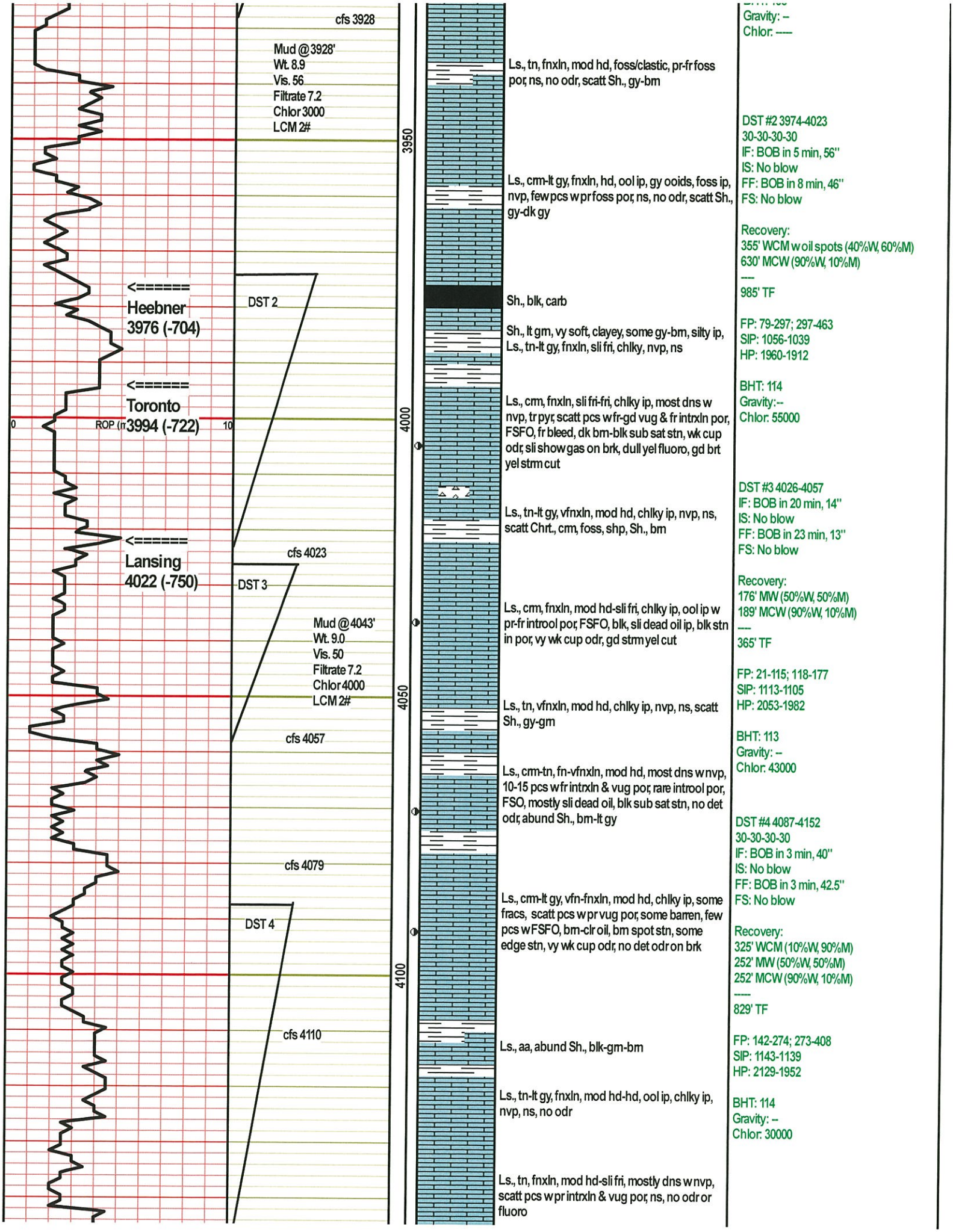
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)


ROCK TYPES
Anhy
Bent
Brec
Cht
Clyst
Carb shale
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
ROP
ROP (min/ft)
Misc
Depth
Oil Shows
% Lithology
Geological Descriptions
DST
0
ROP (min/ft)
10
3150
3200
3250
2500
2550
<======
Anhy.
2510 (+762)
<======
Base Anhy.
2527 (+745)


2600
3300
3350
3400
3450
0
ROP (min/ft)
10


Mud @3531'
Wt. 8.6
Vis. 56
Filtrate 6.4
Chlor 2100
LCM 2#
0
ROP (min/ft)
10
<======
Tarkio
3610 (-338)
3500
3550
3600
3650
3700
Ls., tn-lt gy, fnxln, mod hd, foss, tr frac w pr frac por, ns, no odr, scatt Sh., lt gy, silty ip
Sh., gy, soft
Ls., crm-gy, fnxln, mod hd, ool/foss, dns, nvp, ns
Ls., crm-tn, fnxln, mod hd-hd, foss/ool, dns, nvp, ns, scatt Sh., gy, fiss
Ls., crm-tn, vfnxln, mod hd-hd, dns, brittle, nvp, ns, scatt Sh., bm, soft, blky
Ls., crm, fnxln, sli fri, vy chlky ip, foss ip w vy pr foss & intrxln por, ns, no odr

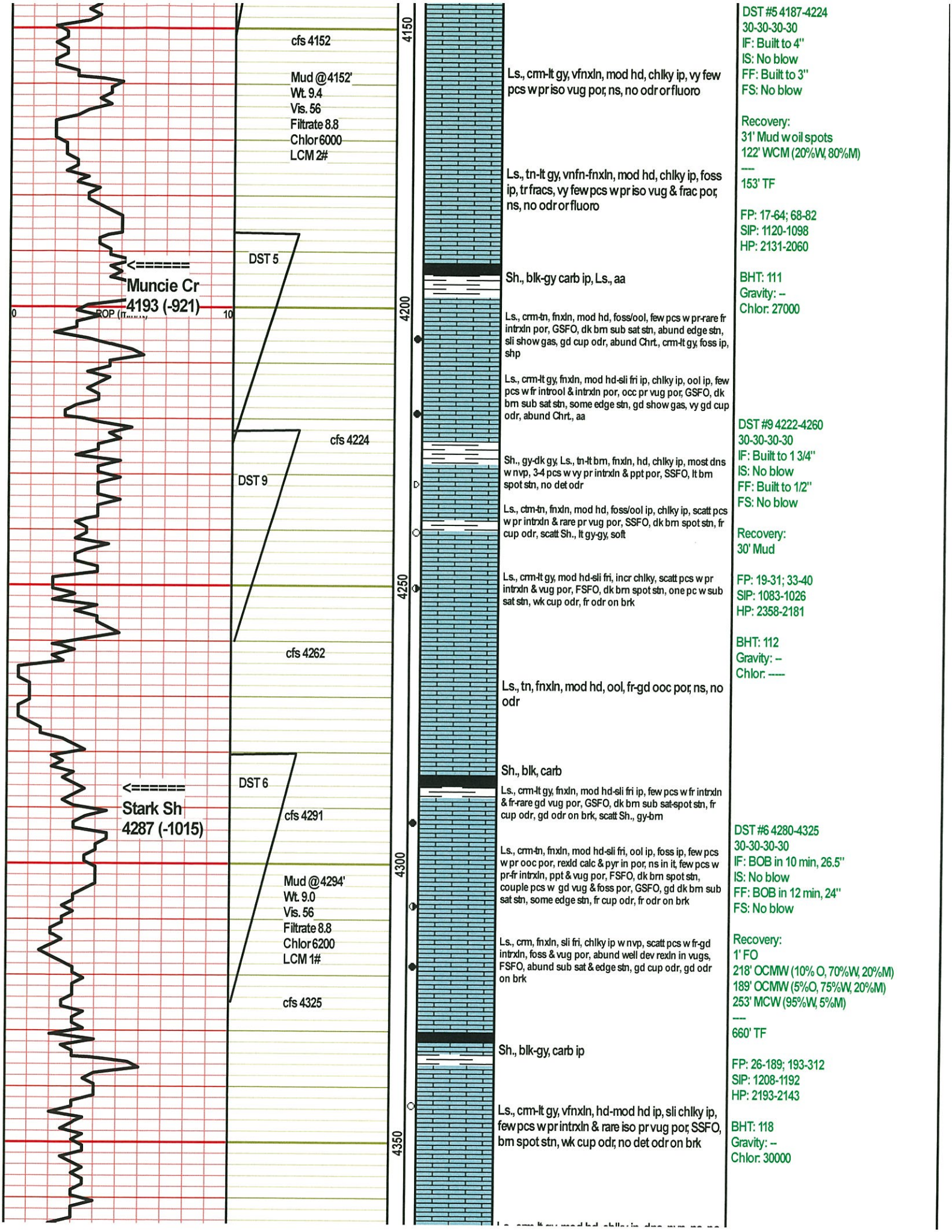

<======
Topeka
3737 (-465)
0
ROP (min/ft)
10
3750
3800
3850
3900
DST 1
Pipe Strap:
1.79' Short
Dev Survey:
3/4
Sh., gy, soft, SS., tn-lt gy, vfngm, sub md, mod hd, glauc, abund access min, vy pr-no vis por, ns, no odr, no fluoro, scatt Ls., lt gy, fnxln, mod hd, foss, dns, nvp, ns
Ls., crm-tn, fnxln, sli fri-mod hd, foss/clastic, brittle, nvp, ns
Ls., crm-lt gy, vfnxln, mod hd, brittle, ool ip, dns, nvp, ns, scatt SS clstrs, gy, vfngm, sub md, mod hd, glauc ip, tr pyr, vy pr-nvp, ns, no odr or fluoro
Ls., tn-lt gy, fnxln, sli fri-mod hd, sli chlky ip, foss, few pcs w pr intrxln & foss por, ns, no odr, no fluoro, scatt Sh., gy, silty ip
Ls., gy, fnxln, mod hd, brittle, silty, nvp, ns, scatt Sh., lt gy, soft, clayey
Ls., crm, vfnxln, mod hd-hd, brittle, dns, nvp, ns, scatt Sh., lt gy-gm
Ls., crm, fnxln, sli fri, vy chlky ip, foss, pr-rare fr foss & occ intrxln por, ns, no odr, scatt Sh., gy
Ls., tn-lt gy, fnxln, mod hd, brittle, vy chlky ip, ool ip, dk gy ooids, dns, nvp, ns, no odr, abund Sh., lt gy, silty ip-blk, carb
Ls., lt gy, vfnxln, mod hd-hd, brittle, dns, nvp, ns
Ls., crm-tn, fnxln, sli fri-mod hd, foss ip, tr pyr incl, 10-15 pcs w fr ppt & pr intrxln por, SSFO, sli dead oil ip, blk stn, no odr, dull fluoro, brt yel strm cut
Ls., tn-lt gy, fnxln, hd, foss ip, dns, nvp, ns
Ls., crm-lt gy, vfnxln, mod hd-sli fri, chlky, nvp, ns
DST #1 3886-3928
30-30-30-30
IF: Built to 2"
IS: No blow
FF: Built to 1 1/4"
FS: No blow
Recovery:
100' Mud w oil spots
FP: 19-35; 30-53
SIP: 1031-985
HP: 1876-1861
BHT: 103


cfs 3928
Mud @ 3928'
Wt. 8.9
Vis. 56
Filtrate 7.2
Chlor 3000
LCM 2#
3950
Ls., tn, fnxln, mod hd, foss/clastic, pr-fr foss por, ns, no odr, scatt Sh., gy-brn
Gravity: --
Chlor: -----
DST #2 3974-4023
30-30-30-30
IF: BOB in 5 min, 56"
IS: No blow
FF: BOB in 8 min, 46"
FS: No blow
Recovery:
355' WCM w oil spots (40%W, 60%M)
630' MCW (90%W, 10%M)

985' TF
<======
Heebner
3976 (-704)
DST 2
Ls., crm-lt gy, fnxln, hd, ool ip, gy ooids, foss ip, nvp, few pcs w pr foss por, ns, no odr, scatt Sh., gy-dk gy
Sh., blk, carb
Sh., lt gm, vy soft, clayey, some gy-brn, silty ip, Ls., tn-lt gy, fnxln, sli fri, chlky, nvp, ns
FP: 79-297; 297-463
SIP: 1056-1039
HP: 1960-1912
BHT: 114
Gravity:--
Chlor: 55000
<======
Toronto
0
ROP (m
3994 (-722)
10
4000
Ls., crm, fnxln, sli fri-fri, chlky ip, most dns w nvp, tr pyr, scatt pcs w fr-gd vug & fr intrxln por, FSFO, fr bleed, dk brn-blk sub sat stn, wk cup odr, sli show gas on brk, dull yel fluoro, gd brt yel strm cut
DST #3 4026-4057
IF: BOB in 20 min, 14"
IS: No blow
FF: BOB in 23 min, 13"
FS: No blow
Ls., tn-lt gy, vfnxln, mod hd, chlky ip, nvp, ns, scatt Chrt., crm, foss, shp, Sh., brn
Recovery:
176' MW (50%W, 50%M)
189' MCW (90%W, 10%M)

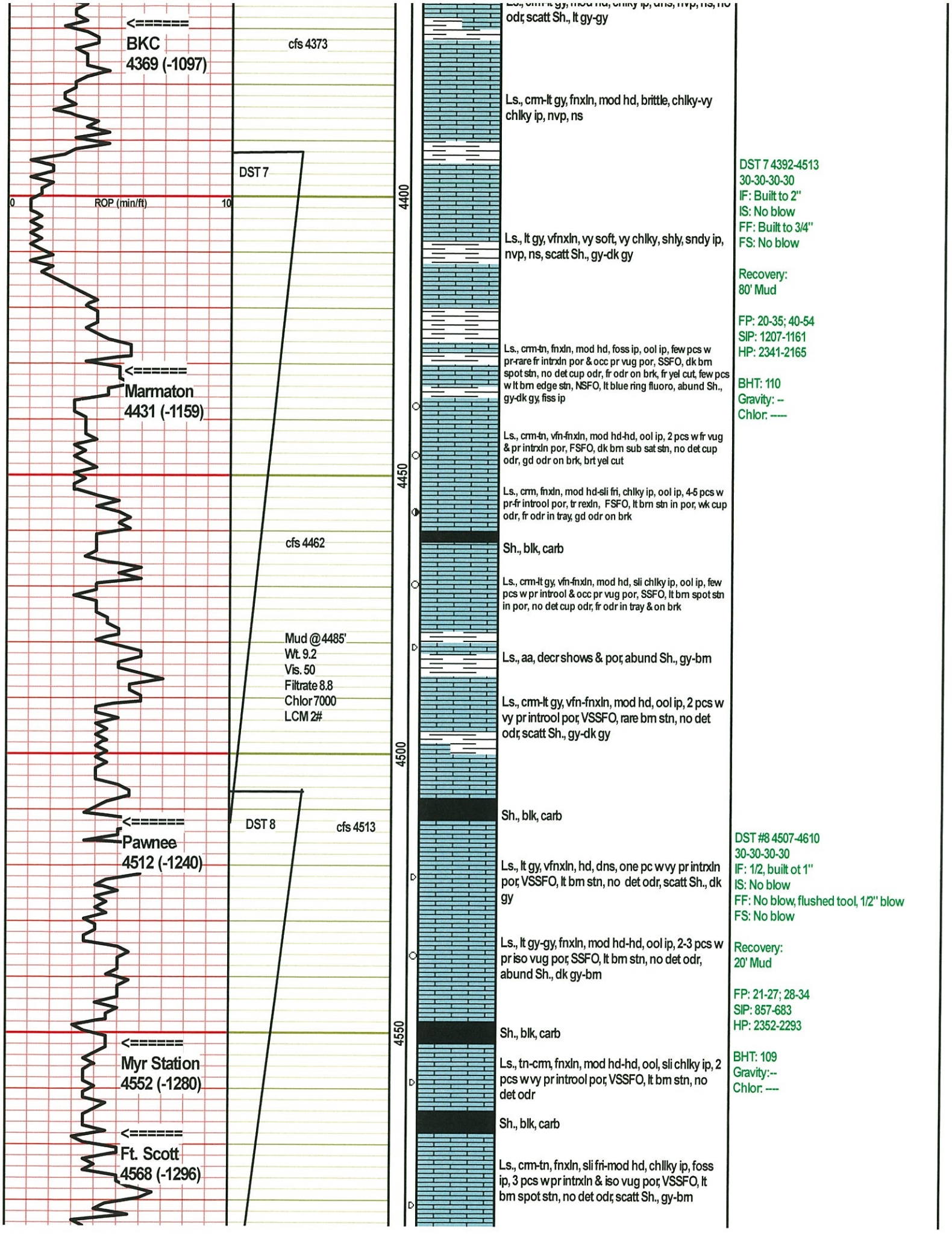
365' TF
<======
Lansing
4022 (-750)
cfs 4023
DST 3
Mud @ 4043'
Wt. 9.0
Vis. 50
Filtrate 7.2
Chlor 4000
LCM 2#
4050
Ls., crm, fnxln, mod hd-sli fri, chlky ip, ool ip w pr-fr introol por, FSFO, blk, sli dead oil ip, blk stn in por, vy wk cup odr, gd strm yel cut
FP: 21-115; 118-177
SIP: 1113-1105
HP: 2053-1982
Ls., tn, vfnxln, mod hd, chlky ip, nvp, ns, scatt Sh., gy-grn
BHT: 113
Gravity: --
Chlor: 43000
cfs 4057
Ls., crm-tn, fn-vfnxln, mod hd, most dns w nvp, 10-15 pcs w fr intrxln & vug por, rare introol por, FSO, mostly sli dead oil, blk sub sat stn, no det odr, abund Sh., brn-lt gy
DST #4 4087-4152
30-30-30-30
IF: BOB in 3 min, 40"
IS: No blow
FF: BOB in 3 min, 42.5"
FS: No blow
cfs 4079
Ls., crm-lt gy, vfn-fnxln, mod hd, chlky ip, some fracs, scatt pcs w pr vug por, some barren, few pcs w FSFO, brn-clr oil, brn spot stn, some edge stn, vy wk cup odr, no det odr on brk
DST 4
Recovery:
325' WCM (10%W, 90%M)
252' MW (50%W, 50%M)
252' MCW (90%W, 10%M)

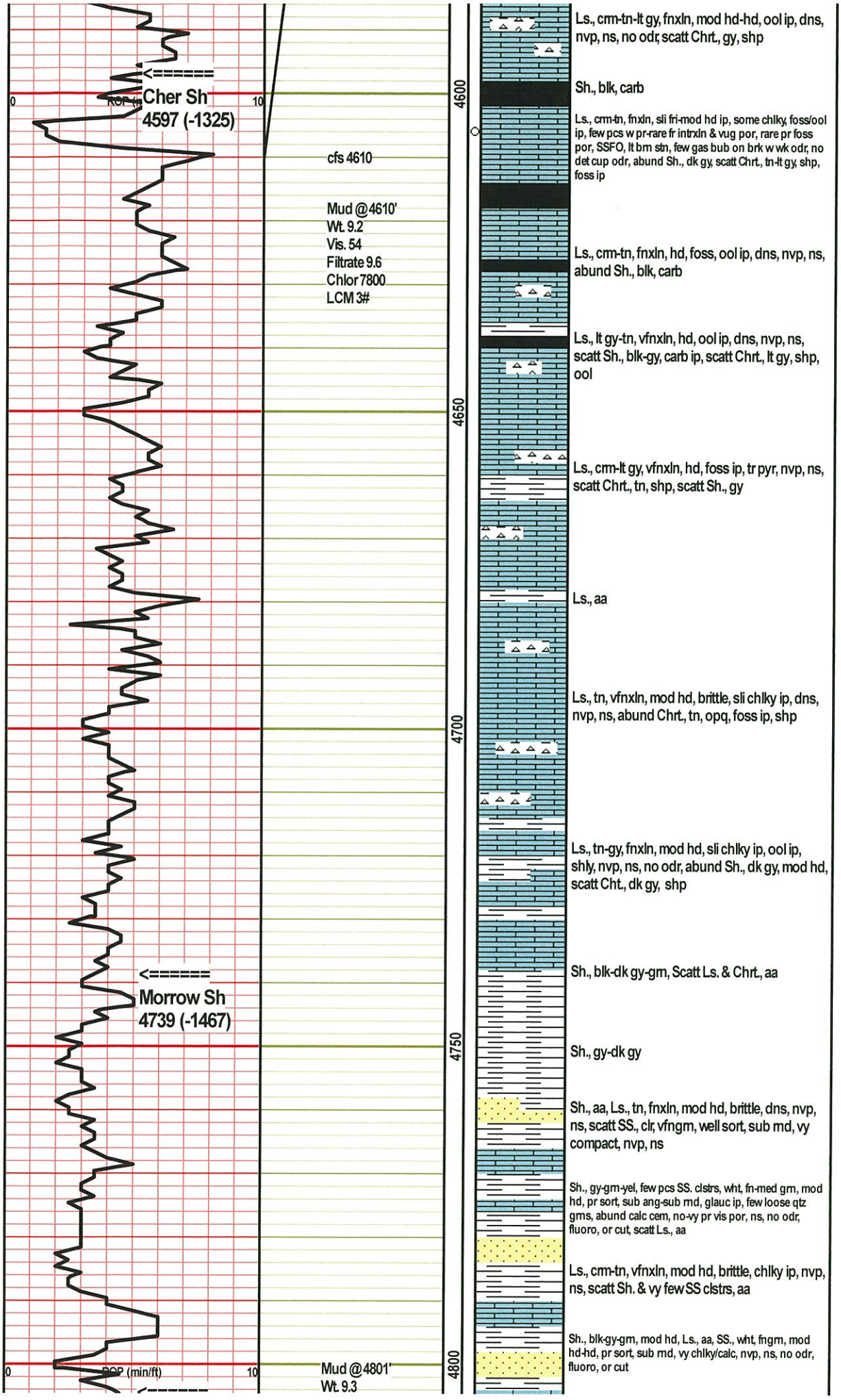
829' TF
4100
cfs 4110
Ls., aa, abund Sh., blk-gm-brn
FP: 142-274; 273-408
SIP: 1143-1139
HP: 2129-1952
Ls., tn-lt gy, fnxln, mod hd-hd, ool ip, chlky ip, nvp, ns, no odr
BHT: 114
Gravity: --
Chlor: 30000
Ls., tn, fnxln, mod hd-sli fri, mostly dns w nvp, scatt pcs w pr intrxln & vug por, ns, no odr or fluoro

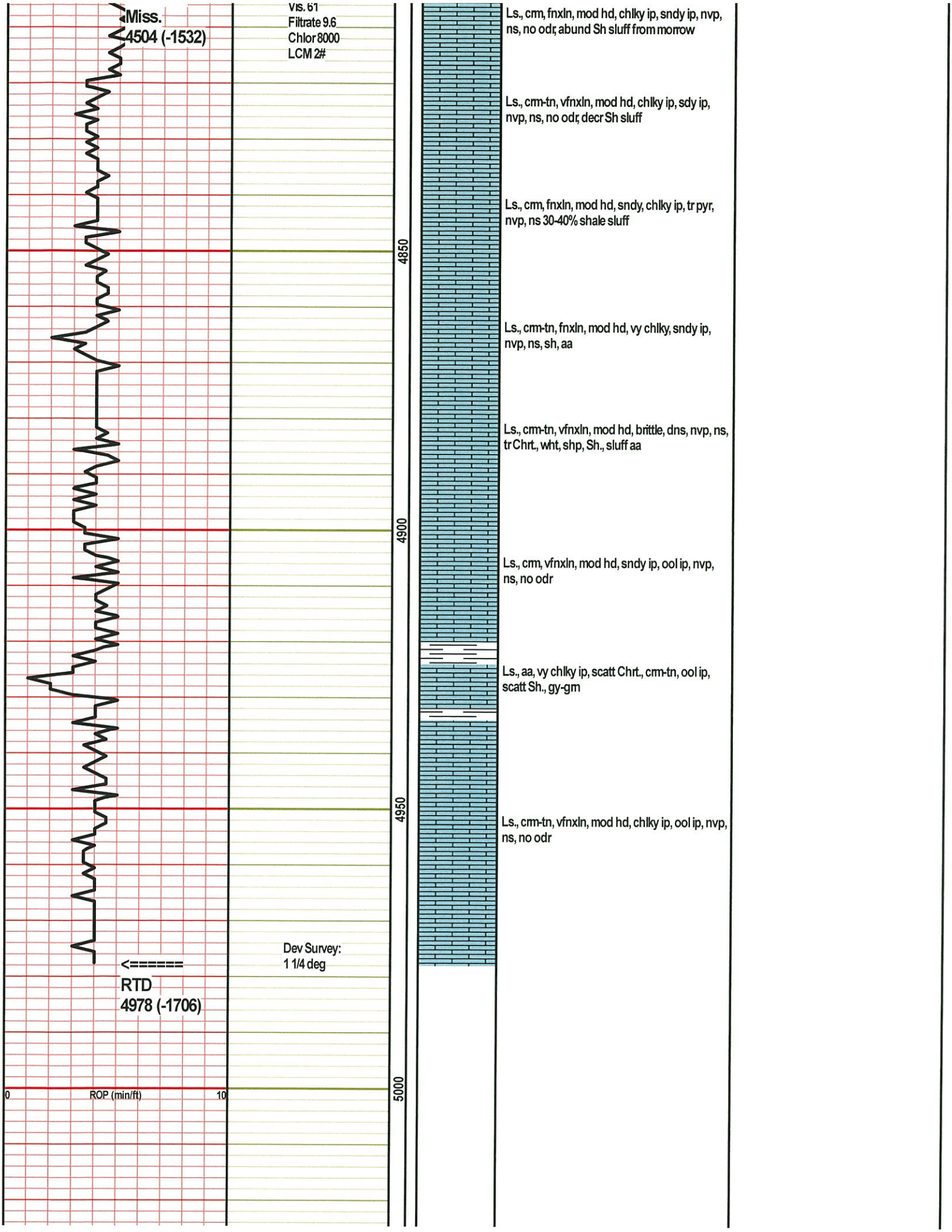

cfs 4152
Mud @4152'
Wt. 9.4
Vis. 56
Filtrate 8.8
Chlor 6000
LCM 2#
DST 5
<======
Muncie Cr
4193 (-921)
0
ROP (m
10
cfs 4224
DST 9
cfs 4262
DST 6
<======
Stark Sh
4287 (-1015)
cfs 4291
Mud @4294'
Wt. 9.0
Vis. 56
Filtrate 8.8
Chlor 6200
LCM 1#
cfs 4325
4150
4200
4250
4300
4350
Ls., crm-lt gy, vfnxln, mod hd, chlky ip, vy few pcs w pr iso vug por, ns, no odr or fluoro
Ls., tn-lt gy, vnfn-fnxln, mod hd, chlky ip, foss ip, tr fracs, vy few pcs w pr iso vug & frac por, ns, no odr or fluoro
Sh., blk-gy carb ip, Ls., aa
Ls., crm-tn, fnxln, mod hd, foss/ool, few pcs w pr-rare fr intrxln por, GSFO, dk brn sub sat stn, abund edge stn, sli show gas, gd cup odr, abund Chrt., crm-lt gy, foss ip, shp
Ls., crm-lt gy, fnxln, mod hd-sli fri ip, chlky ip, ool ip, few pcs w fr introol & intrxln por, occ pr vug por, GSFO, dk brn sub sat stn, some edge stn, gd show gas, vy gd cup odr, abund Chrt., aa
Sh., gy-dk gy, Ls., tn-lt brn, fnxln, hd, chlky ip, most dns w nvp, 3-4 pcs w vy pr intrxln & ppt por, SSFO, lt brn spot stn, no det odr
Ls., crm-tn, fnxln, mod hd, foss/ool ip, chlky ip, scatt pcs w pr intrxln & rare pr vug por, SSFO, dk brn spot stn, fr cup odr, scatt Sh., lt gy-gy, soft
Ls., crm-lt gy, mod hd-sli fri, incr chlky, scatt pcs w pr intrxln & vug por, FSFO, dk brn spot stn, one pc w sub sat stn, wk cup odr, fr odr on brk
Ls., tn, fnxln, mod hd, ool, fr-gd ooc por, ns, no odr
Sh., blk, carb
Ls., crm-lt gy, fnxln, mod hd-sli fri ip, few pcs w fr intrxln & fr-rare gd vug por, GSFO, dk brn sub sat-spot stn, fr cup odr, gd odr on brk, scatt Sh., gy-brn
Ls., crm-tn, fnxln, mod hd-sli fri, ool ip, foss ip, few pcs w pr ooc por, rexld calc & pyr in por, ns in it, few pcs w pr-fr intrxln, ppt & vug por, FSFO, dk brn spot stn, couple pcs w gd vug & foss por, GSFO, gd dk brn sub sat stn, some edge stn, fr cup odr, fr odr on brk
Ls., crm, fnxln, sli fri, chlky ip w nvp, scatt pcs w fr-gd intrxln, foss & vug por, abund well dev rexln in vugs, FSFO, abund sub sat & edge stn, gd cup odr, gd odr on brk
Sh., blk-gy, carb ip
Ls., crm-lt gy, vfnxln, hd-mod hd ip, sli chlky ip, few pcs w pr intrxln & rare iso pr vug por, SSFO, brn spot stn, wk cup odr, no det odr on brk
DST #5 4187-4224
30-30-30-30
IF: Built to 4"
IS: No blow
FF: Built to 3"
FS: No blow
Recovery:
31' Mud w oil spots
122' WCM (20%W, 80%M)

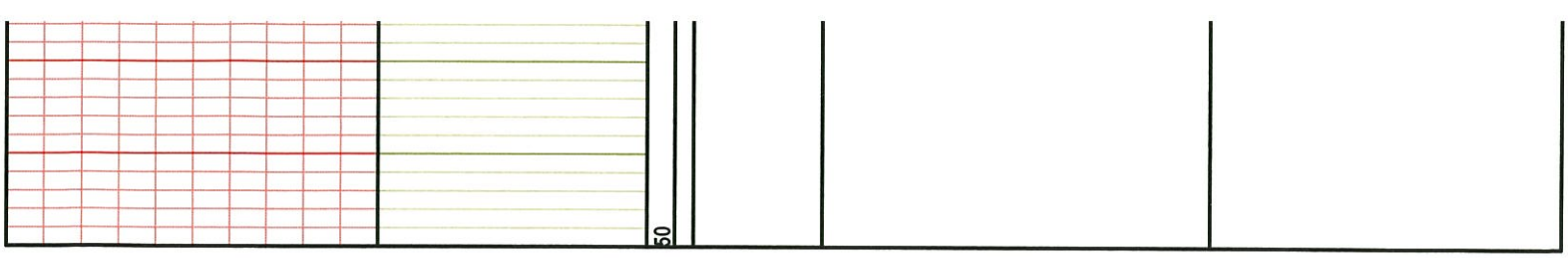
153' TF
FP: 17-64; 68-82
SIP: 1120-1098
HP: 2131-2060
BHT: 111
Gravity: --
Chlor: 27000
DST #9 4222-4260
30-30-30-30
IF: Built to 1 3/4"
IS: No blow
FF: Built to 1/2"
FS: No blow
Recovery:
30' Mud
FP: 19-31; 33-40
SIP: 1083-1026
HP: 2358-2181
BHT: 112
Gravity: --
Chlor: ----
DST #6 4280-4325
30-30-30-30
IF: BOB in 10 min, 26.5"
IS: No blow
FF: BOB in 12 min, 24"
FS: No blow
Recovery:
1' FO
218' OCMW (10% O, 70%W, 20%M)
189' OCMW (5%O, 75%W, 20%M)
253' MCW (95%W, 5%M)

660' TF
FP: 26-189; 193-312
SIP: 1208-1192
HP: 2193-2143
BHT: 118
Gravity: --
Chlor: 30000


<======
BKC
4369 (-1097)
cfs 4373
DST 7
0
ROP (min/ft)
10
4400
<======
Marmaton
4431 (-1159)
4450
cfs 4462
Mud @4485'
Wt. 9.2
Vis. 50
Filtrate 8.8
Chlor 7000
LCM 2#
4500
<======
Pawnee
4512 (-1240)
DST 8
cfs 4513
<======
Myr Station
4552 (-1280)
4550
<======
Ft. Scott
4568 (-1296)
odr, scatt Sh., lt gy-gy
Ls., crm-lt gy, fnxln, mod hd, brittle, chlky-vy chlky ip, nvp, ns
Ls., lt gy, vfnxln, vy soft, vy chlky, shly, sndy ip, nvp, ns, scatt Sh., gy-dk gy
Ls., crm-tn, fnxln, mod hd, foss ip, ool ip, few pcs w pr-rare fr intrxln por & occ pr vug por, SSFO, dk brn spot stn, no det cup odr, fr odr on brk, fr yel cut, few pcs w lt brn edge stn, NSFO, lt blue ring fluoro, abund Sh., gy-dk gy, fiss ip
Ls., crm-tn, vfn-fnxln, mod hd-hd, ool ip, 2 pcs w fr vug & pr intrxln por, FSFO, dk brn sub sat stn, no det cup odr, gd odr on brk, brt yel cut
Ls., crm, fnxln, mod hd-sli fri, chlky ip, ool ip, 4-5 pcs w pr-fr introol por, tr rexln, FSFO, lt brn stn in por, wk cup odr, fr odr in tray, gd odr on brk
Sh., blk, carb
Ls., crm-lt gy, vfn-fnxln, mod hd, sli chlky ip, ool ip, few pcs w pr introol & occ pr vug por, SSFO, lt brn spot stn in por, no det cup odr, fr odr in tray & on brk
Ls., aa, decr shows & por, abund Sh., gy-brn
Ls., crm-lt gy, vfn-fnxln, mod hd, ool ip, 2 pcs w vy pr introol por, VSSFO, rare brn stn, no det odr, scatt Sh., gy-dk gy
Sh., blk, carb
Ls., lt gy, vfnxln, hd, dns, one pc w vy pr intrxln por, VSSFO, lt brn stn, no det odr, scatt Sh., dk gy
Ls., lt gy-gy, fnxln, mod hd-hd, ool ip, 2-3 pcs w pr iso vug por, SSFO, lt brn stn, no det odr, abund Sh., dk gy-brn
Sh., blk, carb
Ls., tn-crm, fnxln, mod hd-hd, ool, sli chlky ip, 2 pcs w vy pr introol por, VSSFO, lt brn stn, no det odr
Sh., blk, carb
Ls., crm-tn, fnxln, sli fri-mod hd, chlky ip, foss ip, 3 pcs w pr intrxln & iso vug por, VSSFO, lt brn spot stn, no det odr, scatt Sh., gy-brn
DST 7 4392-4513
30-30-30-30
IF: Built to 2"
IS: No blow
FF: Built to 3/4"
FS: No blow
Recovery:
80' Mud
FP: 20-35; 40-54
SIP: 1207-1161
HP: 2341-2165
BHT: 110
Gravity: --
Chlor: ----
DST #8 4507-4610
30-30-30-30
IF: 1/2, built ot 1"
IS: No blow
FF: No blow, flushed tool, 1/2" blow
FS: No blow
Recovery:
20' Mud
FP: 21-27; 28-34
SIP: 857-683
HP: 2352-2293
BHT: 109
Gravity:--
Chlor: ----


0
ROP (min/ft)
10
<======
Cher Sh
4597 (-1325)
cfs 4610
Mud @4610'
Wt. 9.2
Vis. 54
Filtrate 9.6
Chlor 7800
LCM 3#
<======
Morrow Sh
4739 (-1467)
0
ROP (min/ft)
10
<------
Mud @4801'
Wt. 9.3
4600
4650
4700
4750
4800
Ls., crm-tn-lt gy, fnxln, mod hd-hd, ool ip, dns, nvp, ns, no odr, scatt Chrt., gy, shp
Sh., blk, carb
Ls., crm-tn, fnxln, sli fri-mod hd ip, some chlky, foss/ool ip, few pcs w pr-rare fr intrxln & vug por, rare pr foss por, SSFO, lt brn stn, few gas bub on brk w wk odr, no det cup odr, abund Sh., dk gy, scatt Chrt., tn-lt gy, shp, foss ip
Ls., crm-tn, fnxln, hd, foss, ool ip, dns, nvp, ns, abund Sh., blk, carb
Ls., lt gy-tn, vfnxln, hd, ool ip, dns, nvp, ns, scatt Sh., blk-gy, carb ip, scatt Chrt., lt gy, shp, ool
Ls., crm-lt gy, vfnxln, hd, foss ip, tr pyr, nvp, ns, scatt Chrt., tn, shp, scatt Sh., gy
Ls., aa
Ls., tn, vfnxln, mod hd, brittle, sli chlky ip, dns, nvp, ns, abund Chrt., tn, opq, foss ip, shp
Ls., tn-gy, fnxln, mod hd, sli chlky ip, ool ip, shly, nvp, ns, no odr, abund Sh., dk gy, mod hd, scatt Cht., dk gy, shp
Sh., blk-dk gy-gm, Scatt Ls. & Chrt., aa
Sh., gy-dk gy
Sh., aa, Ls., tn, fnxln, mod hd, brittle, dns, nvp, ns, scatt SS., clr, vfngm, well sort, sub rnd, vy compact, nvp, ns
Sh., gy-grn-yel, few pcs SS. clstrs, wht, fn-med grn, mod hd, pr sort, sub ang-sub rnd, glauc ip, few loose qtz grns, abund calc cem, no-vy pr vis por, ns, no odr, fluoro, or cut, scatt Ls., aa
Ls., crm-tn, vfnxln, mod hd, brittle, chlky ip, nvp, ns, scatt Sh. & vy few SS clstrs, aa
Sh., blk-gy-gm, mod hd, Ls., aa, SS., wht, fngm, mod hd-hd, pr sort, sub rnd, vy chlky/calc, nvp, ns, no odr, fluoro, or cut


Miss.
4504 (-1532)
Vis. 61
Filtrate 9.6
Chlor 8000
LCM 2#
4850
4900
4950
5000
Ls., crm, fnxln, mod hd, chlky ip, sndy ip, nvp, ns, no odr, abund Sh sluff from morrow
Ls., crm-tn, vfnxln, mod hd, chlky ip, sdy ip, nvp, ns, no odr, decr Sh sluff
Ls., crm, fnxln, mod hd, sndy, chlky ip, tr pyr, nvp, ns 30-40% shale sluff
Ls., crm-tn, fnxln, mod hd, vy chlky, sndy ip, nvp, ns, sh, aa
Ls., crm-tn, vfnxln, mod hd, brittle, dns, nvp, ns, tr Chrt., wht, shp, Sh., sluff aa
Ls., crm, vfnxln, mod hd, sndy ip, ool ip, nvp, ns, no odr
Ls., aa, vy chlky ip, scatt Chrt., crm-tn, ool ip, scatt Sh., gy-gm
Ls., crm-tn, vfnxln, mod hd, chlky ip, ool ip, nvp, ns, no odr
Dev Survey:
1 1/4 deg
<======
RTD
4978 (-1706)
0
ROP (min/ft)
10


50