

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	FOTOPOULOS UNIT 1
Doc ID	1371775

All Electric Logs Run

Micro
Dual Induction
Borehole Compensated Sonic
Litho Density Neutron

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	FOTOPOULOS UNIT 1
Doc ID	1371775

Tops

Name	Top	Datum
Anhy.	2648	(+ 671)
Base Anhy.	2668	(+ 651)
Topeka	3820	(- 501)
Heebner	4058	(- 739)
Toronto	4074	(- 755)
Lansing	4105	(-786)
Stark Sh.	4380	(-1061)
BKC	4456	(-1137)
Marmaton	4496	(-1177)
Pawnee	4584	(-1265)
Ft. Scott	4644	(-1325)
Cherokee Sh.	4674	(-1355)
Morrow Sh.	4805	(-1486)
Miss.	4872	(-1553)
LTD	4981	(-1662)

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
 RUSSELL, KS 67665

Invoice

Date	Invoice #
9/18/2017	3096

RECEIVED

SEP 20 2017

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

P.O. No.	Terms	Project
FOTOPOLAS#1	Due on receipt	

Quantity	Description	Rate	Amount
144	COMMON CEMENT	16.00	2,304.00
96	POZ	9.50	912.00
9	GEL	21.50	193.50
60	FLO-SEAL	2.00	120.00
309	HANDLING	1.90	587.10
	BULK MILEAGE	500.00	500.00
1	TRI-PLEX PUMP CHARGE FOR PLUG	750.00	750.00
20	PUMP TRUCK MILEAGE	7.00	140.00
20	PICKUP FOR TRANSPORTATION OF GOODS TO JOB SITE	3.00	60.00
1	DRY HOLE PLUG	62.50	62.50
1	25% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE LOGAN CO SALES TAX	8.00%	0.00

Thank you for your business.	Total	\$5,629.10
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GLOBAL OIL FIELD SERVICES, LLC

3096

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>9-13-17</u>	SEC. <u>16</u>	TWP. <u>19S</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Froggala</u>	WELL #. <u>1</u>	LOCATION <u>South of Russell Spring 3/CS</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)		<u>LaKenna Rd 2 E 1/2 Sec 15 Twp 19S Range 36W</u>					

CONTRACTOR W/W Drilling Rig #10
TYPE OF JOB Plug
HOLE SIZE 5 7/8" T.D. 2660'
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX. MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS
DISPLACEMENT

OWNER Palomino Petroleum Inc
CEMENT AMOUNT ORDERED 240 SKS 60/40 P&Z
4 3/4 Gal 1/4" per sec float

EQUIPMENT
PUMP TRUCK # 409 CEMENTER Cody
HELPER Chris
BULK TRUCK # 378 DRIVER Jason
BULK TRUCK # DRIVER

COMMON @
POZMIX @
GEL @
CHLORIDE @
ASC @
HANDLING @
MILEAGE @
TOTAL

REMARKS:
50 SKS 2660'
100 SKS 1480
50' 280'
10 SKS 40' wiper plug
Rat hole 30 SKS

CHARGE TO: Palomino Petroleum
STREET
CITY STATE ZIP

SERVICE
DEPTH OF JOB
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
MILEAGE @
MANIFOLD @
TOTAL

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

PLUG & FLOAT EQUIPMENT
@
@
@
@
@
TOTAL

PRINTED NAME Richy Hillis
SIGNATURE Richy Hillis

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS



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

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

Invoice

Invoice# 811224

Invoice Date: 09/13/17

Terms: Net 30

Page 1

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

RECEIVED

SEP 15 2017

FOTOPOILOS UNIT #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	45.000	7.1500	30.000	225.23
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	30.000	462.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	165.000	23.0000	30.000	2,656.50

Subtotal 5,926.75

Discounted Amount 1,778.03

SubTotal After Discount 4,148.72

Amount Due 6,230.35 If paid after 10/13/17

Tax: 212.52

Total: 4,361.25



9005 / 8847

TICKET NUMBER 53607
 LOCATION Oakley KS
 FOREMAN Jerry Y

**ELD TICKET & TREATMENT REPORT
 CEMENT**

Invoice # 811224 KS

620-431-9210 or 800-467-8676

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-5-17	<u>6285</u>	Fotopoulos Unit #1	16	14S	36W	Logan
CUSTOMER		Palomino Petro				
MAILING ADDRESS		4924 SE 84th Street				
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
Newton	KS	6114-8827	731	Cory D		
			479	Walt D		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220 CASING SIZE & WEIGHT 8 1/8 240
 CASING DEPTH 220 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL 1.29 WATER gal/sk _____ CEMENT LEFT in CASING 20
 DISPLACEMENT 12 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on well 10 circulate casing mix 165 SKS com class A 3% CC 2% ge 10 washes & displace with 12 Yellbl freshwater & shut in found cement to collar

cement came to surface

Thank you
 Jerry Y

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	45	MILEAGE	7.15	321.75
CE0711	7.76	ton mileage deliver	60.00	660.00
CL5871	165 SKS	surface blend II	23.00	3795.00
			Subtotal	5926.75
			-30%	1778.03
			Subtotal	4148.72
			SALES TAX	212.52
			ESTIMATED TOTAL	4361.25

Ravin 3737

AUTHORIZATION [Signature] 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

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a "claim") for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

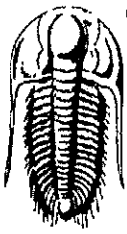
(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment; including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum

16 14s 36w

4924 SE 84th St.
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64220

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.09.10 @ 15:01:00

GENERAL INFORMATION:

Formation: **Marmaton.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:16:45

Time Test Ended: 21:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **4474.00 ft (KB) To 4584.00 ft (KB) (TVD)**

Reference Elevations: 3319.00 ft (KB)

Total Depth: 4584.00 ft (KB) (TVD)

3314.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 20.25 psig @ 4475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.10

End Date: 2017.09.10

Last Calib.: 2017.09.10

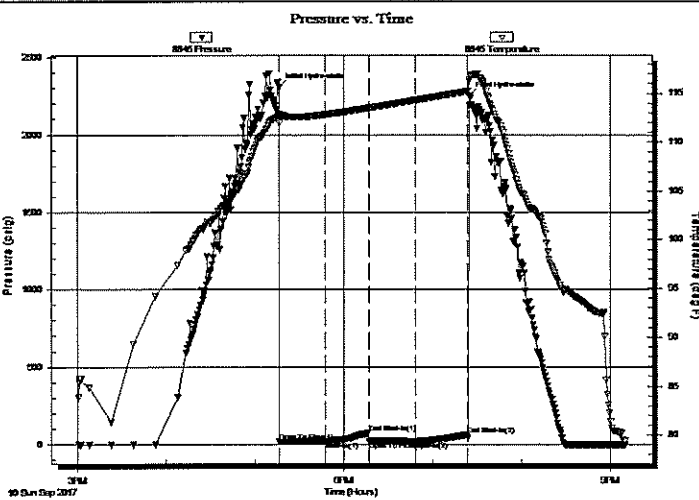
Start Time: 15:01:05

End Time: 21:09:59

Time On Btm: 2017.09.10 @ 17:16:30

Time Off Btm: 2017.09.10 @ 19:25:00

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



PRESSURE SUMMARY

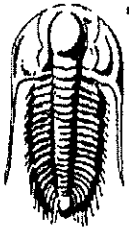
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2305.33	112.85	Initial Hydro-static
1	18.81	112.02	Open To Flow (1)
32	20.68	112.82	Shut-In(1)
61	74.31	113.50	End Shut-In(1)
61	19.52	113.50	Open To Flow (2)
92	20.25	114.30	Shut-In(2)
127	60.73	115.20	End Shut-In(2)
129	2249.76	116.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
10.00	Mud 100m, (oil spots)	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

16 14s 36w

4924 SE 84th St.
New ton, Ks 67114

Fotopoulos Unit #1

ATTN: Andrew Stenzel

Job Ticket: 64220

DST#: 1

Test Start: 2017.09.10 @ 15:01:00

GENERAL INFORMATION:

Formation: Marmaton.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:16:45

Time Test Ended: 21:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4474.00 ft (KB) To 4584.00 ft (KB) (TVD)

Total Depth: 4584.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3319.00 ft (KB)

3314.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.10

End Date: 2017.09.10

Last Calib.: 2017.09.10

Start Time: 15:01:05

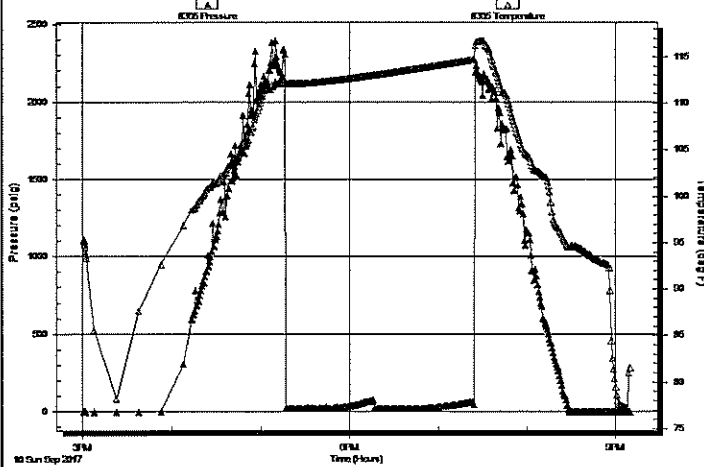
End Time: 21:09:59

Time On Btm:

Time Off Btm:

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

Pressure vs. Time



PRESSURE SUMMARY

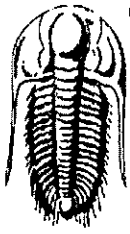
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m, (oil spots)	0.05

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

16 14s 36w

4924 SE 84th St.
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64220

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.09.10 @ 15:01:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m, (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

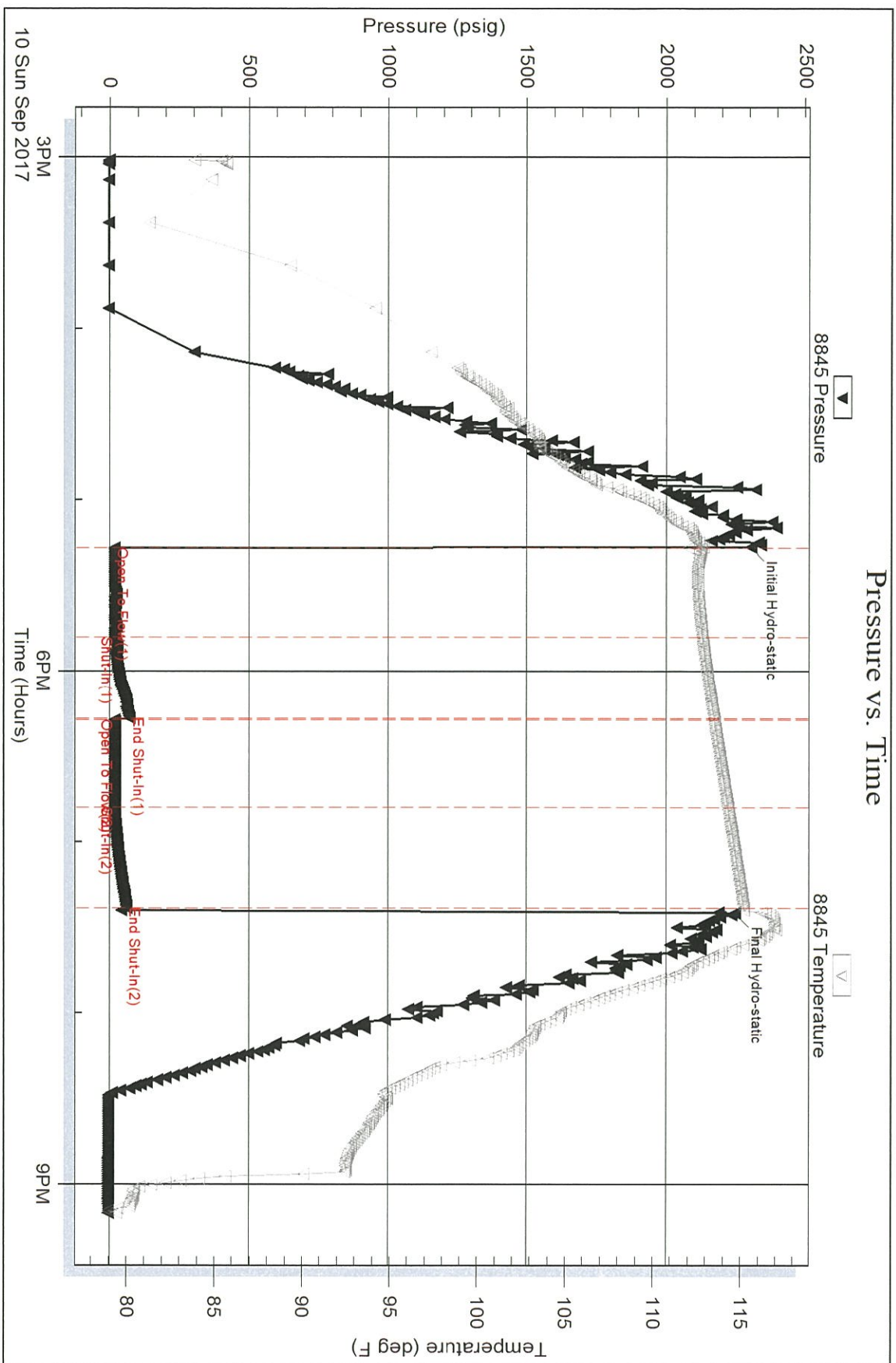
Recovery Comments:

Serial #: 8845

Outside Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64220

Printed: 2017.09.11 @ 07:23:38

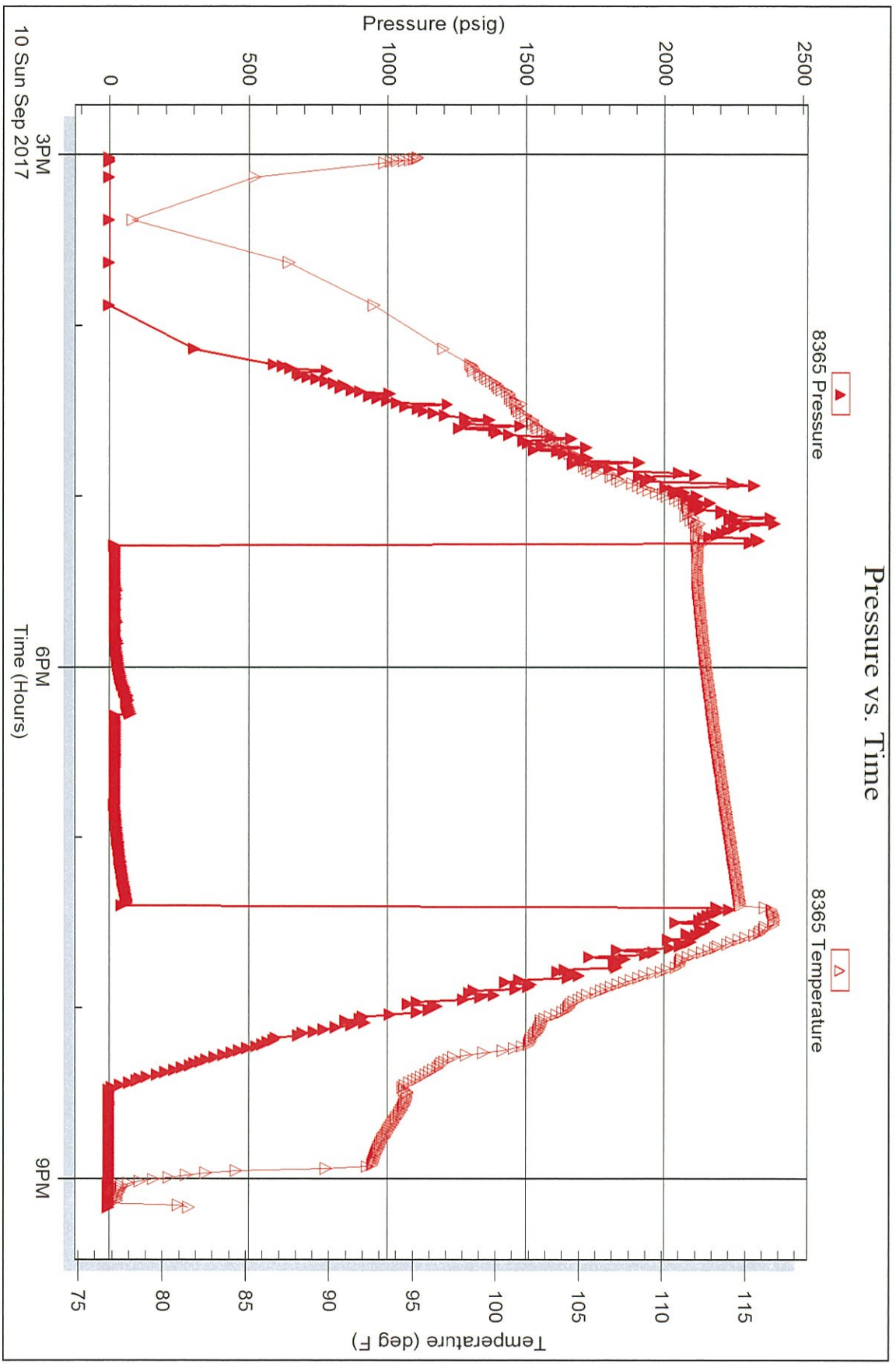
Serial #: 8365

Inside

Palomino Petroleum

Fotopoulos Unit #1

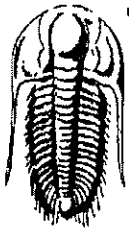
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64220

Printed: 2017.09.11 @ 07:23:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

16-14s-36w

4924 SE 84th St.
Newton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64222

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.09.11 @ 08:26:00

GENERAL INFORMATION:

Formation: **Ft Scott, Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:29:45

Time Test Ended: 14:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4613.00 ft (KB) To 4682.00 ft (KB) (TVD)**

Total Depth: 4682.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3319.00 ft (KB)

3314.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8845** Outside

Press@RunDepth: 22.24 psig @ 4614.00 ft (KB)

Start Date: 2017.09.11

End Date:

2017.09.11

Start Time: 08:26:05

End Time:

14:09:59

Capacity: 8000.00 psig

Last Calib.: 2017.09.11

Time On Btm: 2017.09.11 @ 10:29:30

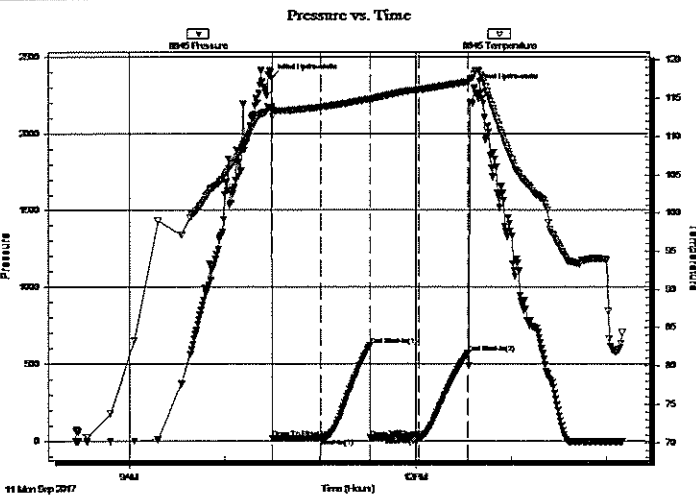
Time Off Btm: 2017.09.11 @ 12:36:15

TEST COMMENT: IF: 1/2" blow, Receded to surface.

ISI: No return.

FF: Surface blow, died @ 15 min.

FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2361.53	113.87	Initial Hydro-static
1	18.16	112.56	Open To Flow (1)
31	21.19	113.84	Shut-In(1)
62	619.17	114.93	End Shut-In(1)
62	21.70	114.63	Open To Flow (2)
93	22.24	116.14	Shut-In(2)
124	569.50	117.17	End Shut-In(2)
127	2296.75	118.12	Final Hydro-static

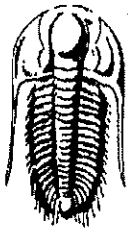
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m, (oil spots in tool)	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

16-14s-36w

4924 SE 84th St.
Newton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64222

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.09.11 @ 08:26:00

GENERAL INFORMATION:

Formation: **Ft Scott, Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:29:45

Time Test Ended: 14:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4613.00 ft (KB) To 4682.00 ft (KB) (TVD)**

Total Depth: 4682.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3319.00 ft (KB)

3314.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4614.00 ft (KB)

Start Date: 2017.09.11

End Date: 2017.09.11

Start Time: 08:26:05

End Time: 14:09:59

Capacity: 8000.00 psig

Last Calib.: 2017.09.11

Time On Btm:

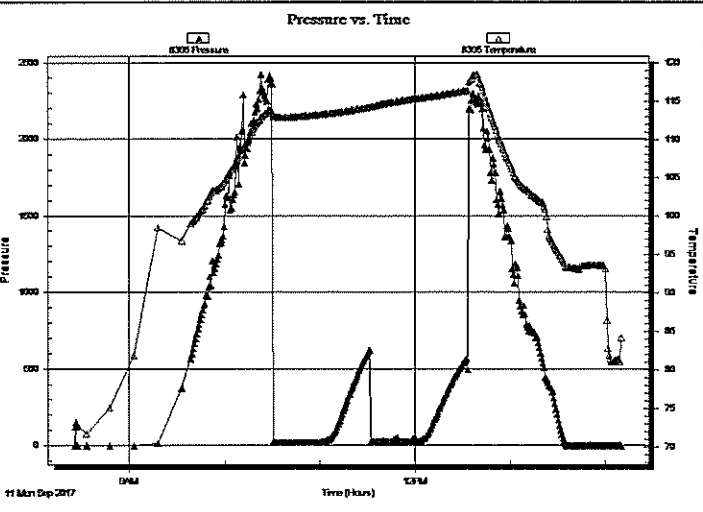
Time Off Btm:

TEST COMMENT: IF: 1/2" blow , Receded to surface.

ISI: No return.

FF: Surface blow , died @ 15 min.

FSI: No return.



PRESSURE SUMMARY

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

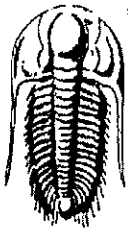
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m, (oil spots in tool)	0.05

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

16-14s-36w

4924 SE 84th St.
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64222

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.09.11 @ 08:26:00

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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m, (oil spots in tool)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

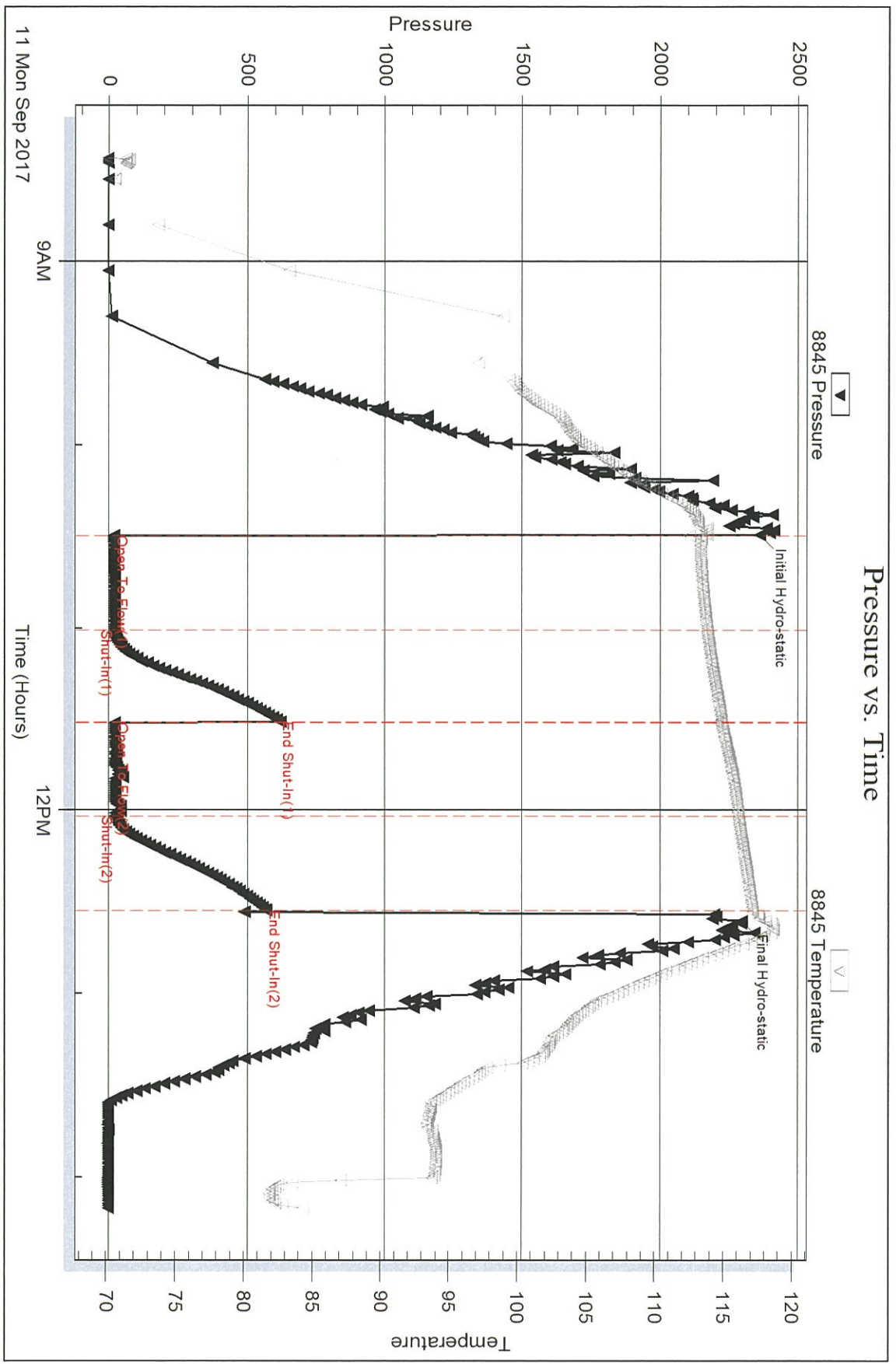
Recovery Comments:

Serial #: 8845

Outside Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64222

Printed: 2017.09.11 @ 14:36:20

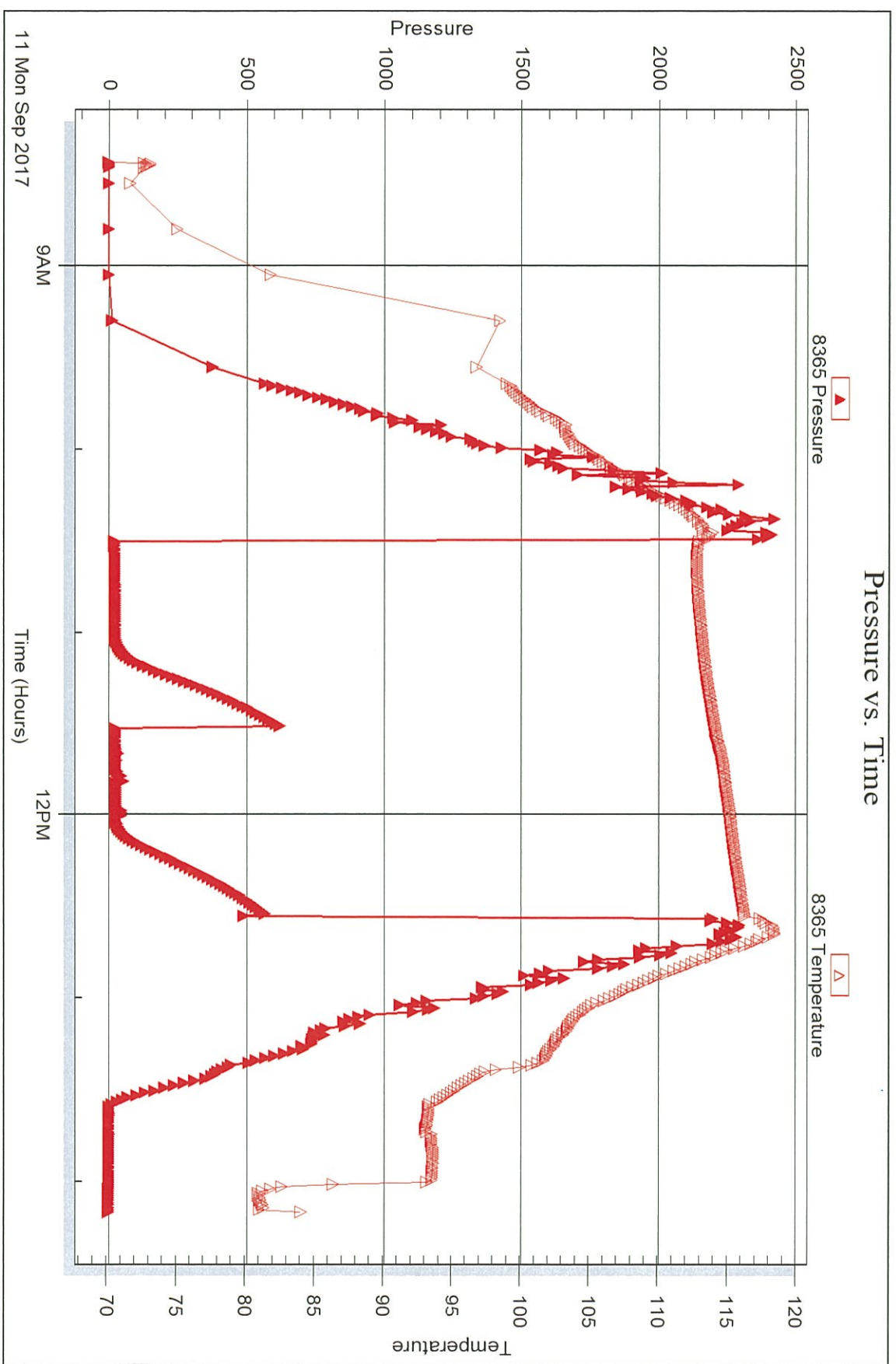
Serial #: 8365

Inside

Palomino Petroleum

Fotopoulos Unit #1

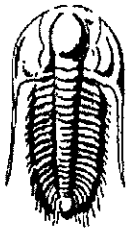
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64222

Printed: 2017.09.11 @ 14:36:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

16 14s 36w

4924 SE 84th St.
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64223

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.09.12 @ 03:46:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:30

Time Test Ended: 09:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4668.00 ft (KB) To 4803.00 ft (KB) (TVD)**

Reference Elevations: 3319.00 ft (KB)

Total Depth: 4803.00 ft (KB) (TVD)

3314.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 35.48 psig @ 4669.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.12

End Date: 2017.09.12

Last Calib.: 2017.09.12

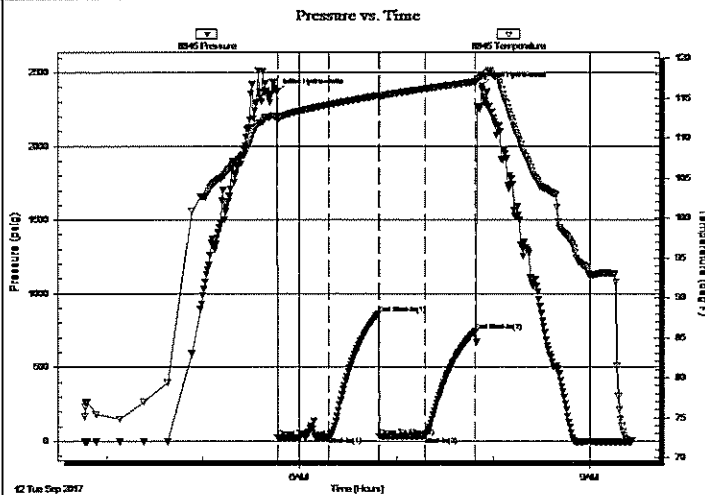
Start Time: 03:46:05

End Time: 09:26:29

Time On Btm: 2017.09.12 @ 05:46:00

Time Off Btm: 2017.09.12 @ 07:53:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2364.64	112.73	Initial Hydro-static
1	24.11	112.19	Open To Flow (1)
33	30.20	114.15	Shut-In(1)
63	863.40	115.32	End Shut-In(1)
63	32.02	114.94	Open To Flow (2)
92	35.48	116.16	Shut-In(2)
123	744.57	117.04	End Shut-In(2)
127	2409.87	117.93	Final Hydro-static

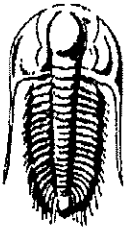
Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m, (oil spots in tool)	0.12

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

16 14s 36w
Fotopoulos Unit #1
 Job Ticket: 64223 **DST#: 3**
 Test Start: 2017.09.12 @ 03:46:00

GENERAL INFORMATION:

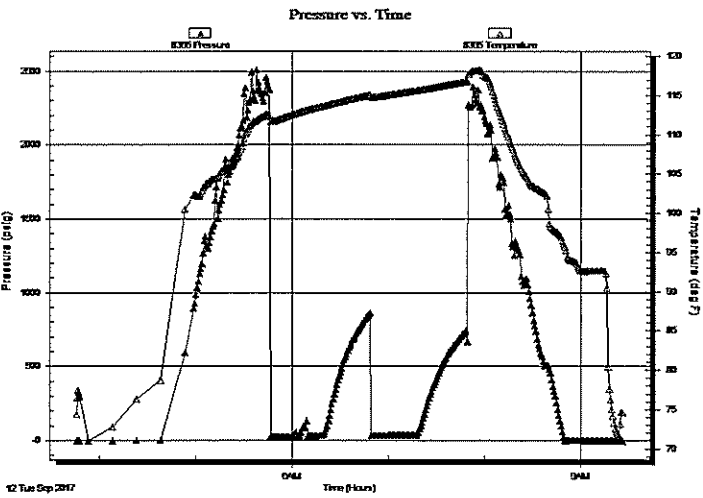
Formation: **Johnson**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 05:46:30
 Time Test Ended: 09:26:30
 Interval: **4668.00 ft (KB) To 4803.00 ft (KB) (TVD)**
 Total Depth: **4803.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Bradley Walter**
 Unit No: **78**
 Reference Elevations: **3319.00 ft (KB)**
 3314.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8365 **Inside**

Press@RunDepth: **psig @ 4669.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2017.09.12** End Date: **2017.09.12** Last Calib.: **2017.09.12**
 Start Time: **03:46:05** End Time: **09:26:29** Time On Btm: **Time On Btm:**
 Time Off Btm:

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



PRESSURE SUMMARY

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

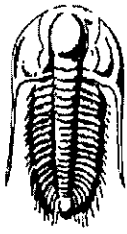
Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m, (oil spots in tool)	0.12

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

16 14s 36w

4924 SE 84th St.
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64223

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.09.12 @ 03:46:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
25.00	Mud 100m, (oil spots in tool)	0.123

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

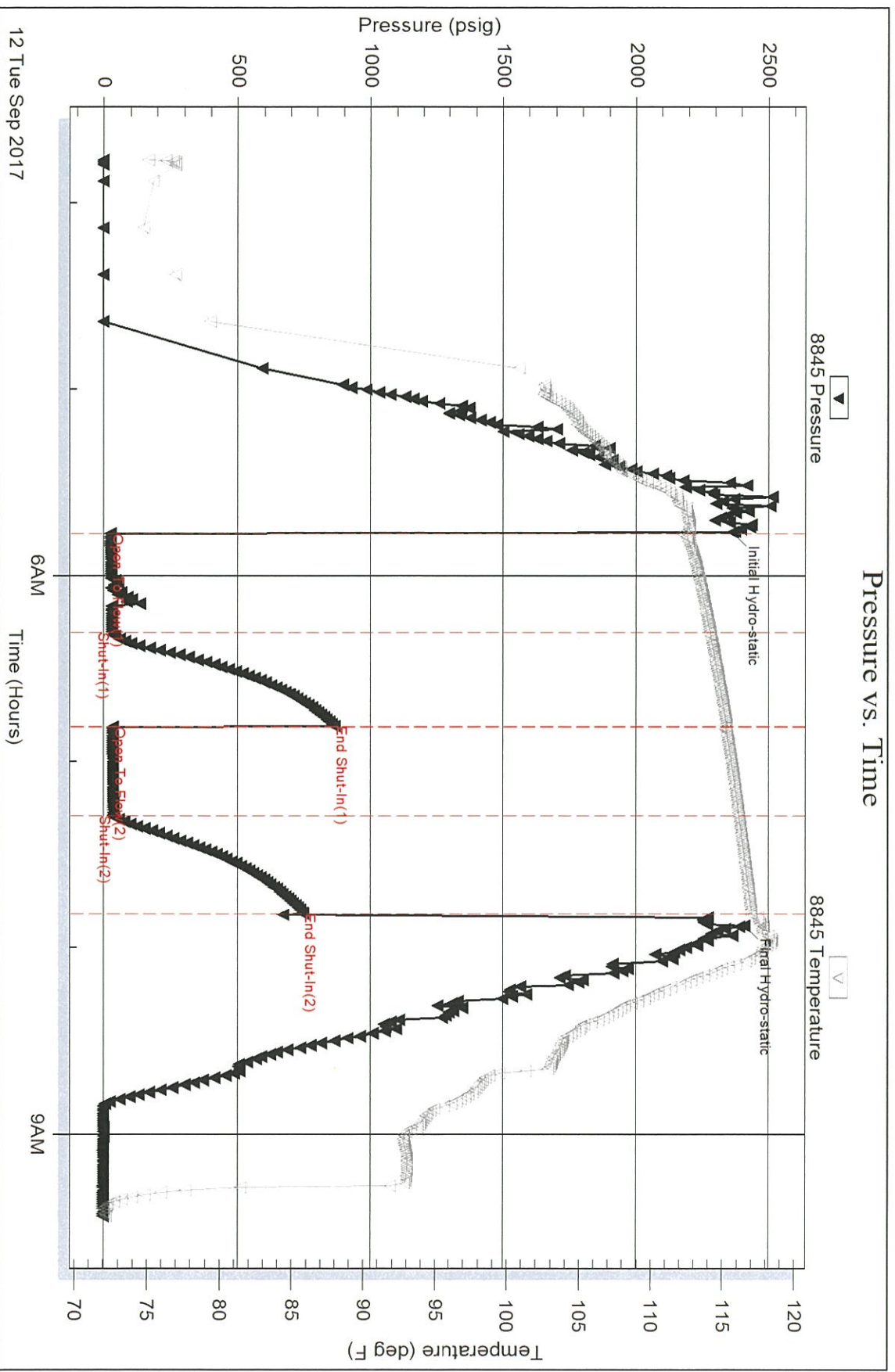
Recovery Comments:

Serial #: 8845

Outside Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64223

Printed: 2017.09.12 @ 09:50:44

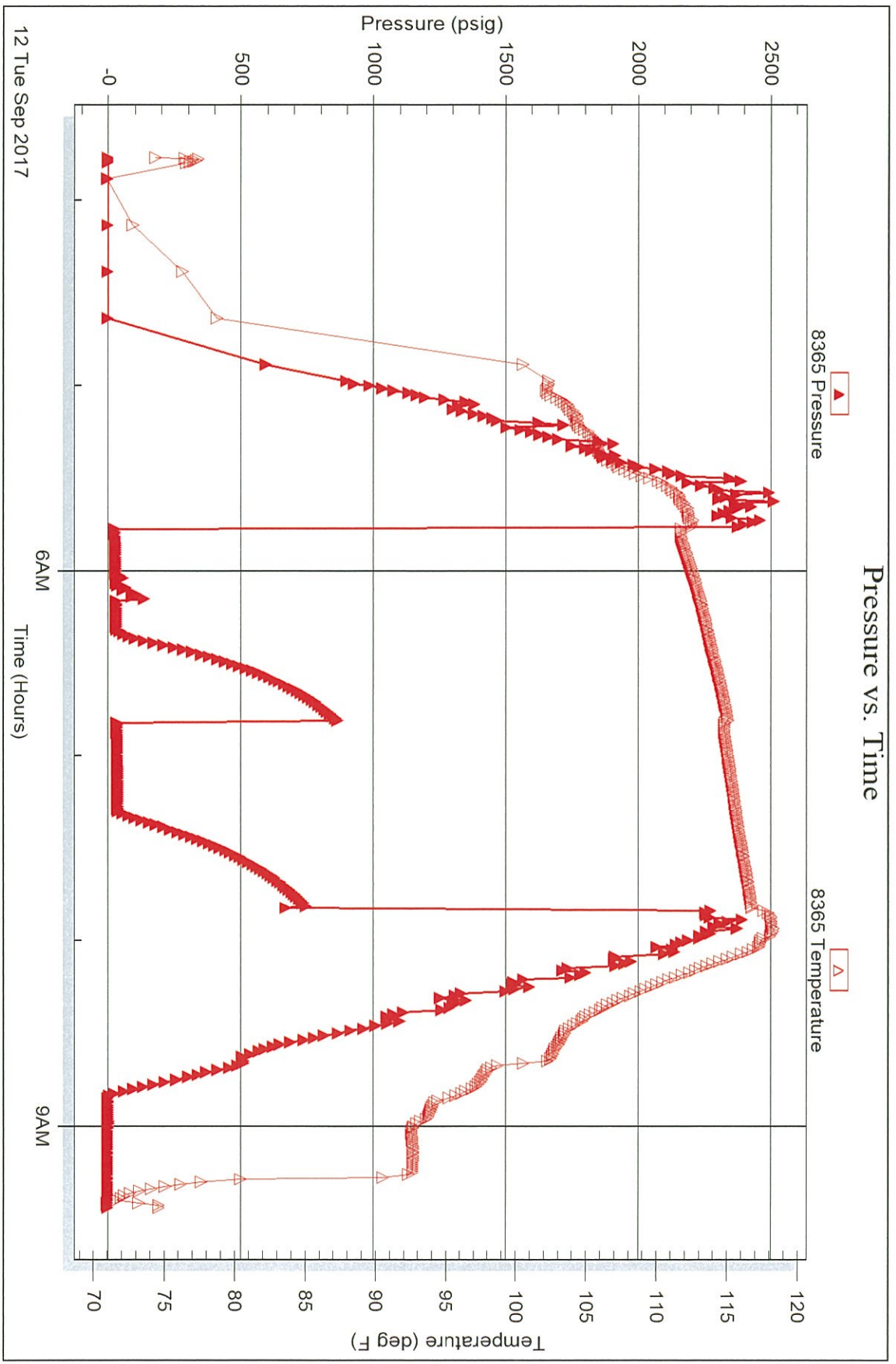
Serial #: 8365

Inside

Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64223

Printed: 2017.09.12 @ 09:50:44



Home
(785) 798-3400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-5977

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

Well Name: Fotopoulos Unit #1
Well Id:
Location: Sec. 16-14S-36W (Logan Co)
License Number: 15-109-21523
Spud Date: 9/5/17
Surface Coordinates: 599' FSL & 2571' FEL

Region: KANSAS
Drilling Completed: 9/13/17

Bottom Hole Coordinates:
Ground Elevation (ft): 3314 **K.B. Elevation (ft):** 3319
Logged Interval (ft): 3500 **To:** TD **Total Depth (ft):** 4980
Formation:
Type of Drilling Fluid: Mud-Co Chemical

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

OPERATOR

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

GEOLOGIST

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

Drilling Report

9/5/17 MIRU, ran surface casing
9/6/17 Drilling @ 815'
9/7/17 Drilling @ 2997'
9/8/17 Drilling @ 3755'
9/9/17 Drilling @ 4185'
9/10/17 Drilling @ 4550', DST #1
9/11/17 Circulating @ 4682', DST #2
9/12/17 DST #3
9/13/17 Ran electric logs, plugged & abandoned

Services

RIG: WW Drilling, Rig #10

MUD: MUDCO

LOGS: Gemini: CND, DIL, ML, PE, SL

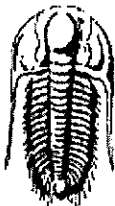
Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing @ 220', cemented with 165sx common. Cement did circulate, plug down at 6:15pm

PRODUCTION Casing: None

Formation Tops

Sample Tops		LogTops	
Anhy.	2650 (+669)	Anhy.	2648 (+671)
Base Anhy.	2670 (+649)	Base Anhy.	2668 (+651)
Topeka	3824 (-505)	Topeka	3820 (-501)
Heebner	4053 (-734)	Heebner	4058 (-739)
Toronto	4074 (-755)	Toronto	4074 (-755)
Lansing	4107 (-788)	Lansing	4105 (-786)
Stark Sh	4378 (-1059)	Stark Sh	4380 (-1061)
BKC	4454 (-1135)	BKC	4456 (-1137)
Marmaton	4498 (-1179)	Marmaton	4496 (-1177)
Pawnee	4570 (-1251)	Pawnee	4584 (-1265)
Ft. Scott	4639 (-1320)	Ft. Scott	4644 (-1325)
Cher. Sh	4676 (-1357)	Cher. Sh.	4674 (-1355)
Morrow Sh	4804 (-1485)	Morrow Sh	4805 (-1486)
Miss.	4863 (-1544)	Miss.	4872 (-1553)
RTD	4980 (-1661)	LTD	4981 (-1662)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum

16 14s 36w

4924 SE 84th St.
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64220 DST#: 1

ATTN: Andrew Stenzel

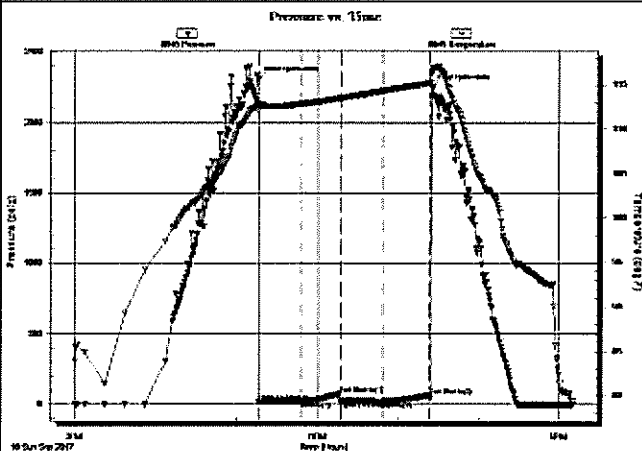
Test Start: 2017.09.10 @ 15:01:00

GENERAL INFORMATION:

Formation: **Marmaton.**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 17:16:45
 Time Test Ended: 21:10:00
 Interval: **4474.00 ft (KB) To 4584.00 ft (KB) (TVD)**
 Total Depth: **4584.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3319.00 ft (KB)
 3314.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845 Outside
 Press@RunDepth: 20.25 psig @ 4475.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.09.10 End Date: 2017.09.10 Last Callb.: 2017.09.10
 Start Time: 15:01:05 End Time: 21:09:59 Time On Blmt: 2017.09.10 @ 17:16:30
 Time Off Blmt: 2017.09.10 @ 19:25:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2305.33	112.85	Initial Hydro-static
1	18.81	112.02	Open To Flow (1)
32	20.68	112.82	Shut-In(1)
61	74.31	113.50	End Shut-In(1)
61	19.52	113.50	Open To Flow (2)
92	20.25	114.30	Shut-In(2)
127	60.73	115.20	End Shut-In(2)
129	2249.76	116.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (oil spots)	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

16-14s-36w

4924 SE 84th St.
Newton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64222 DST#:2

ATTN: Andrew Stenzel

Test Start: 2017.09.11 @ 08:26:00

GENERAL INFORMATION:

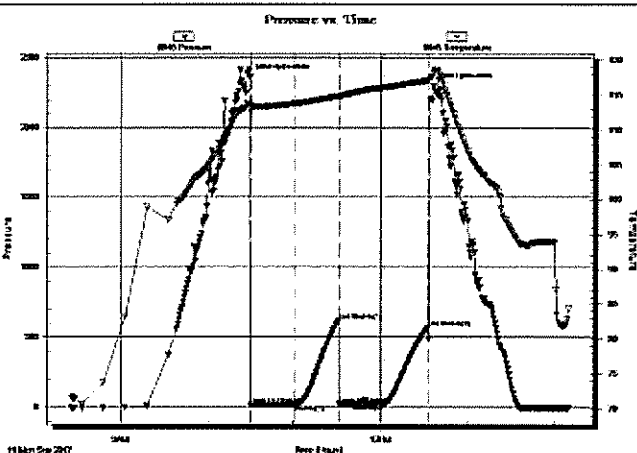
Formation: **Ft Scott, Pawnee**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 10:29:45
 Time Test Ended: 14:10:00
 Interval: **4613.00 ft (KB) To 4682.00 ft (KB) (TVD)**
 Total Depth: **4682.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Bradley Walter**
 Unit No: **78**
 Reference Elevations: **3319.00 ft (KB)**
3314.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: **8845**

Outside

Press@RunDepth: **22.24 psig @ 4614.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2017.09.11** End Date: **2017.09.11** Last Calib.: **2017.09.11**
 Start Time: **08:26:05** End Time: **14:09:59** Time On Blmt **2017.09.11 @ 10:29:30**
 Time Off Blmt **2017.09.11 @ 12:36:15**

TEST COMMENT: IF: 1/2" blow, Receded to surface.
 IS: No return.
 FF: Surface blow, died @ 15 min.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2381.53	113.87	Initial Hydro-static
1	18.16	112.56	Open To Flow (1)
31	21.19	113.84	Shut-In(1)
62	619.17	114.93	End Shut-In(1)
62	21.70	114.63	Open To Flow (2)
93	22.24	116.14	Shut-In(2)
124	569.50	117.17	End Shut-In(2)
127	2296.75	118.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (oil spots in tool)	0.05

* Recovery from multiple tests

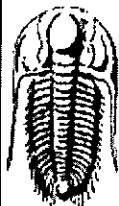
Gas Rates

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

Trilobite Testing, Inc

Ref. No: 64222

Printed: 2017.09.11 @ 14:36:18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

16 14s 36w

4924 SE 84th St.
Newton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64223

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.09.12 @ 03:46:00

GENERAL INFORMATION:

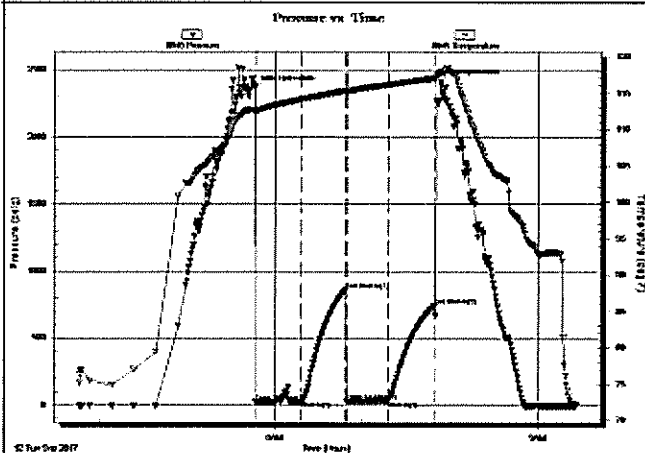
Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:46:30
 Time Test Ended: 09:28:30
 Interval: 4668.00 ft (KB) To 4803.00 ft (KB) (TVD)
 Total Depth: 4803.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3319.00 ft (KB)
 3314.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845

Outside

Press@RunDepth: 35.48 psig @ 4669.00 ft (KB)
 Start Date: 2017.09.12 End Date: 2017.09.12
 Start Time: 03:46:05 End Time: 09:28:29
 Capacity: 8000.00 psig
 Last Callb.: 2017.09.12
 Time On Blm: 2017.09.12 @ 05:46:00
 Time Off Blm: 2017.09.12 @ 07:53:00

TEST COMMENT: IF: 1" blow.
 IS: No return.
 FF: No blow.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2364.64	112.73	Initial Hydro-static
1	24.11	112.19	Open To Flow (1)
33	30.20	114.15	Shut-in(1)
63	863.40	115.32	End Shut-in(1)
63	32.02	114.94	Open To Flow (2)
92	35.48	116.16	Shut-in(2)
123	744.57	117.04	End Shut-in(2)
127	2403.87	117.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m (oil spots in tool)	0.12

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 64223

Printed: 2017.09.12 @ 09:50:40

<=====
Base Anhy.
2670 (+649)

ROP (min/ft) 100 100 2700

3400

3450

3500

3550

Sh., brn-rd

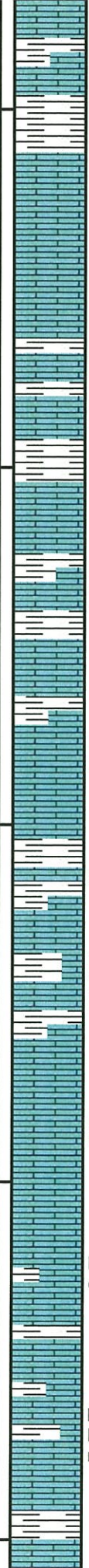
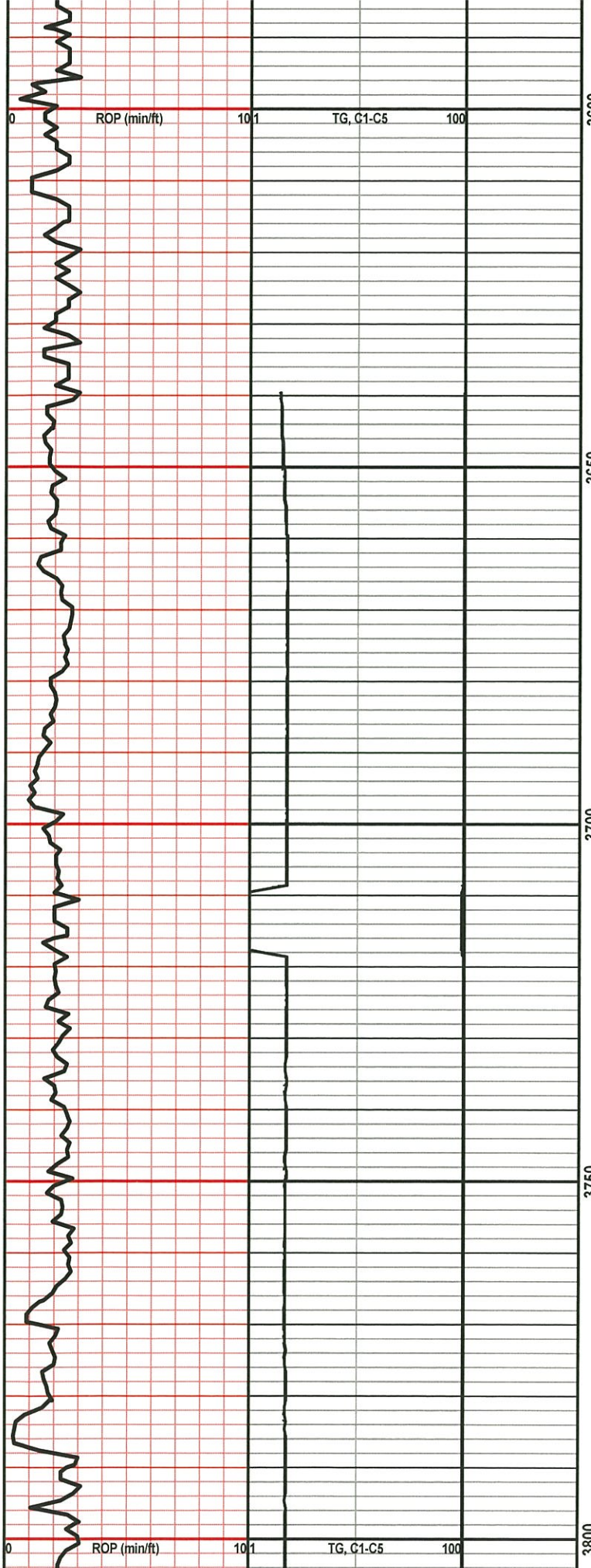
Ls., crm, fnxln, sli fri/soft, ool
ip, foss, pr introol & foss por,
ns, no odr, scatt Sh., gy

Ls., lt gy-gy, vfnxln, mod hd,
foss ip, nvp, ns

Sh., dk gy

Ls., gy-buff, vnxln, mod hd,
dns, nvp, ns, scatt Sh., dk
gy-gy

Ls., crm-lt gy, vfnxln, micr ip,
foss, few pcs w vy pr foss por,
scatt Sh., gy



Sh., brn-lt grn, scatt Ls., crm, vfnxln, soft, chlky, nvp, ns

Ls., crm-lt gy, fn-vfnxln, mod hd, foss, ool ip, nvp, ns, no odr

Ls., crm-tn, fnxln, mod hd, sub chlky-chlky, foss ip, nvp, ns, scatt Sh., brn, soft

Ls., buff-lt gy, fnxln, sli fri/soft, chlky ip, micr ip, nvp, ns, scatt Sh., gy

Ls., lt gy-gy, vfnxln, mod hd, brittle ip, sub chlky ip, nvp, ns

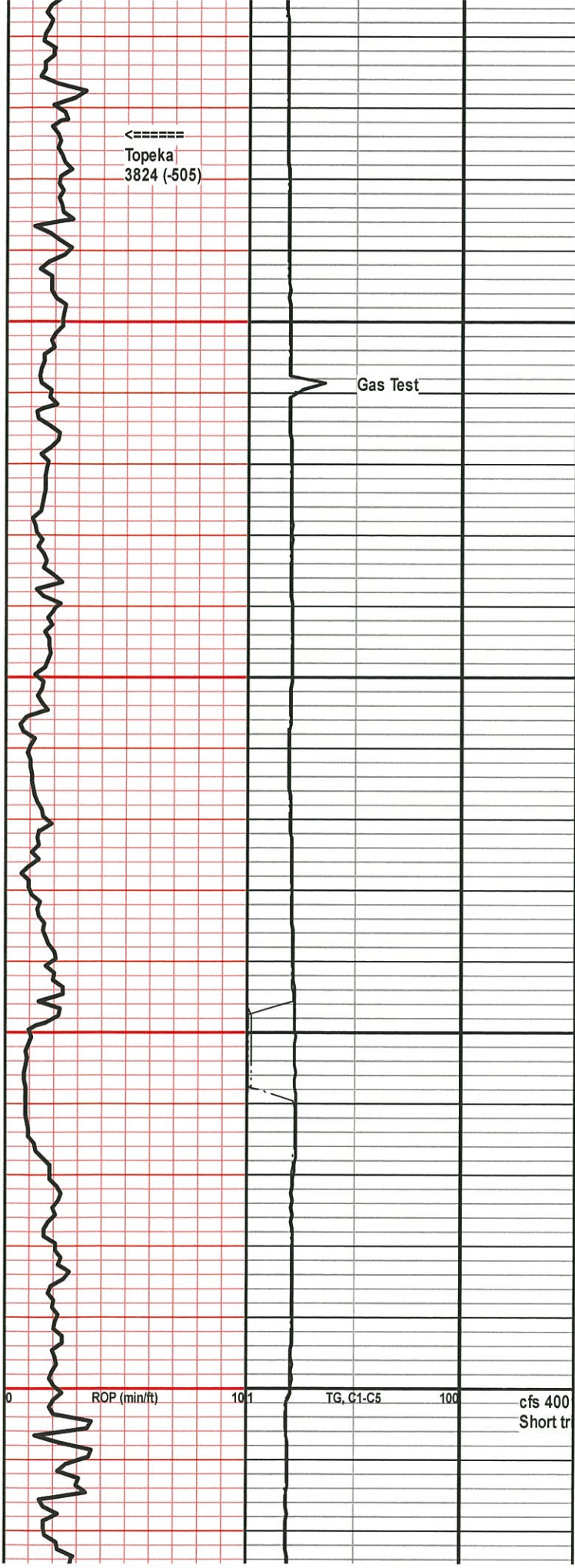
Sh., dk gy

Ls., crm-tn, fnxln, mod hd, foss ip, few pcs w pr intrxln & foss por, ns, no odr, scatt Sh., aa

Ls., crm-lt gy, vfnxln, mod hd, dns, nvp, ns

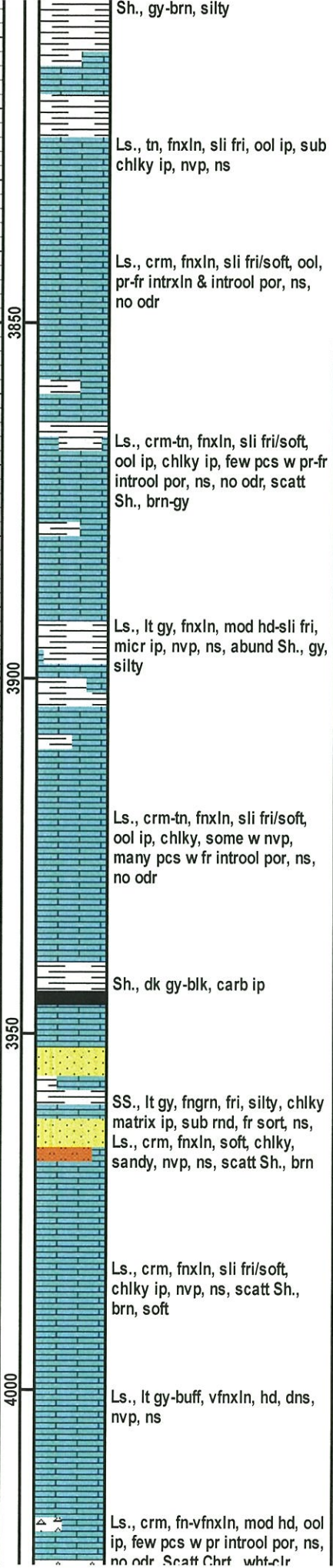
Ls., crm-tn, vfnxln, mod hd-hd, dns, nvp, ns, scatt Sh., gy

Ls., crm-lt gy, fn-vfnxln, mod hd-hd, foss, vy pr iso vug por, ns, no odr, Scatt Sh., brn, soft



<=====
 Topeka
 3824 (-505)

Gas Test



3850

3900

3950

4000

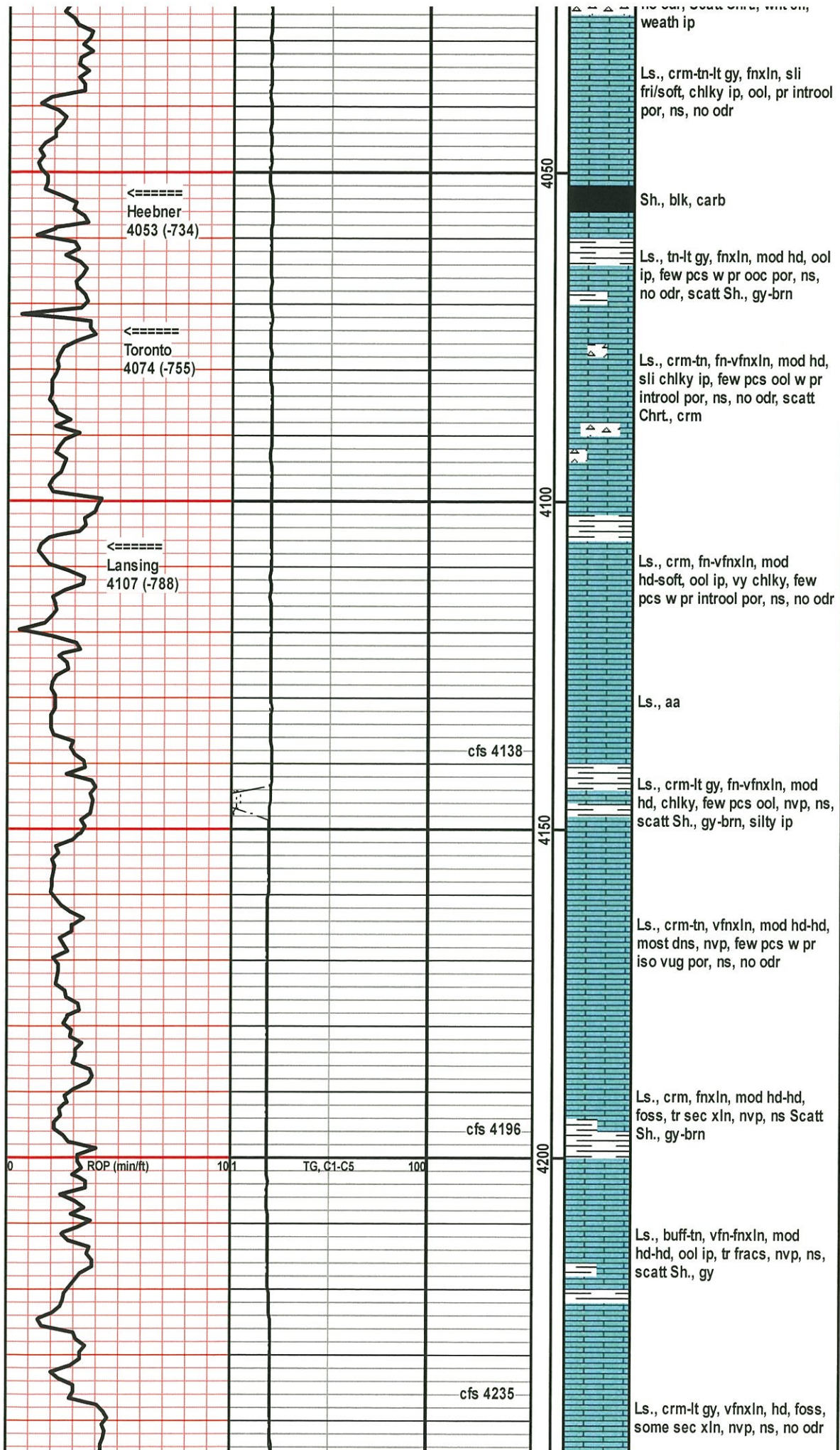
ROP (min/ft)

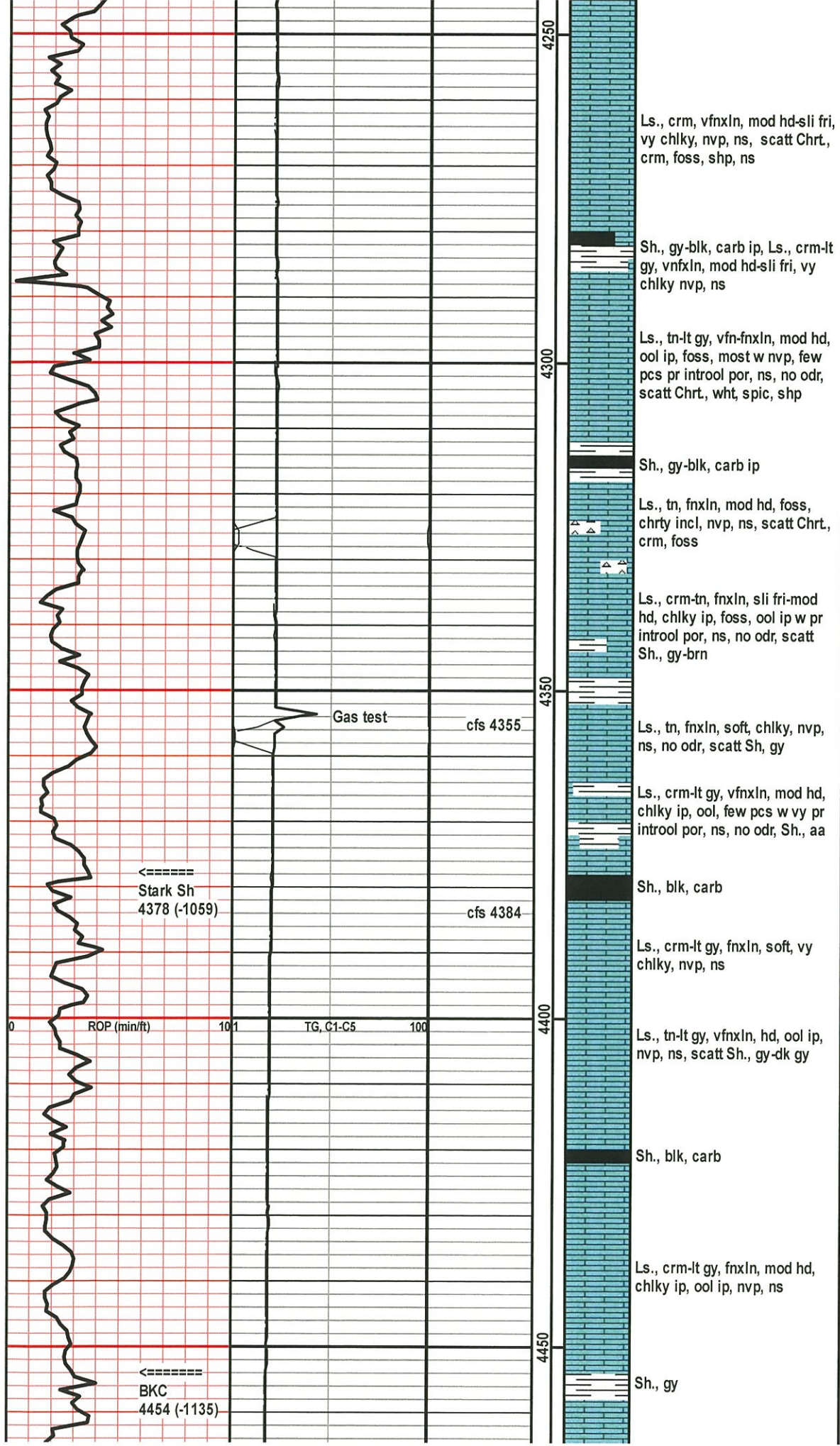
10 1

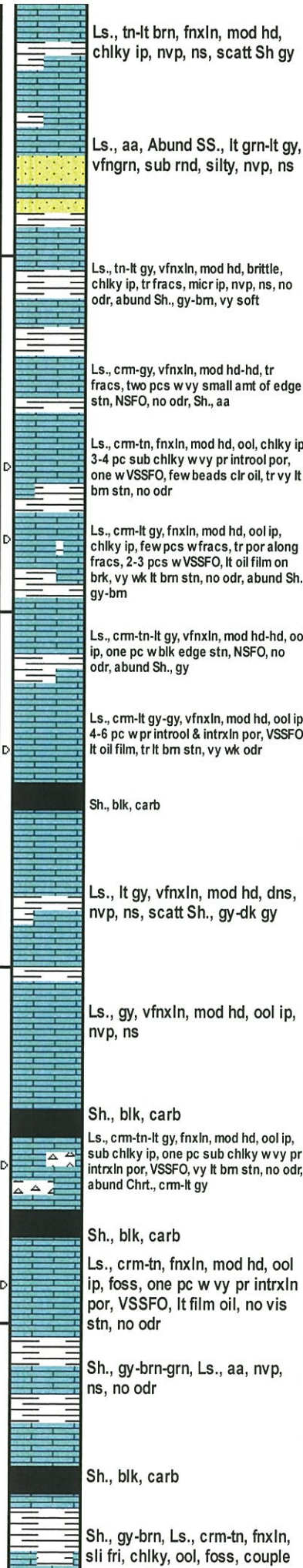
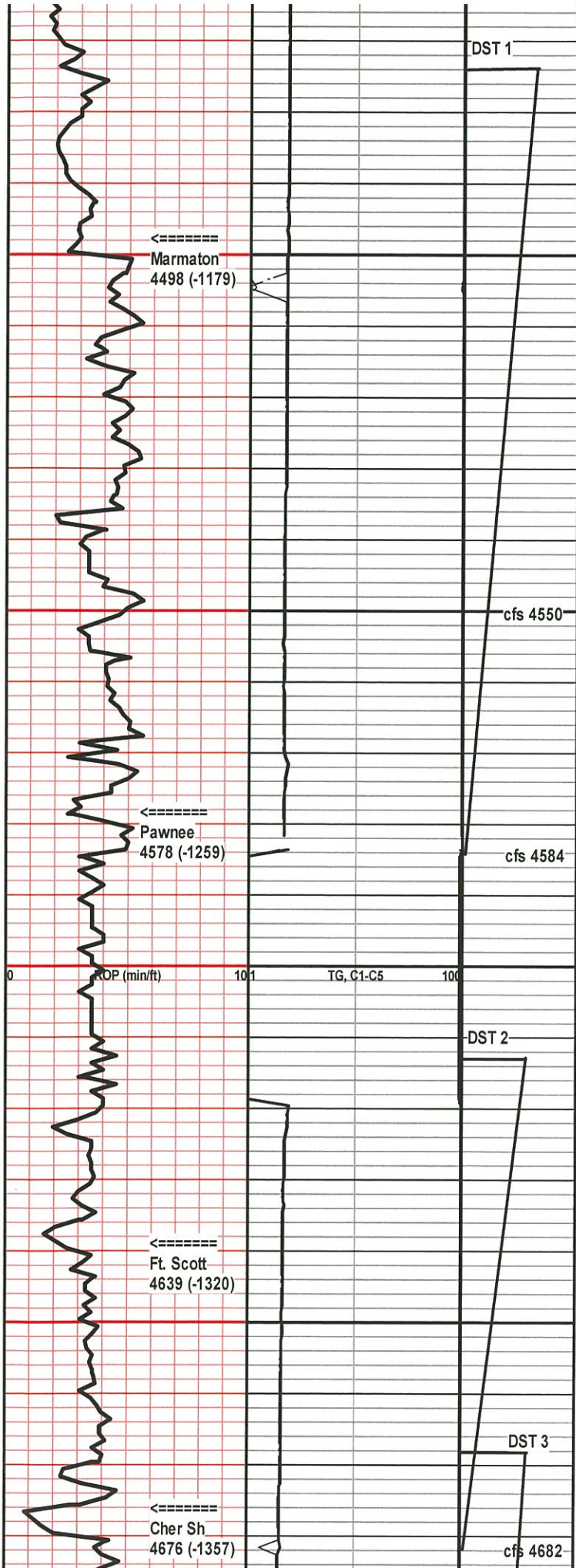
TG, C1-C5

100

cfs 400
 Short tr

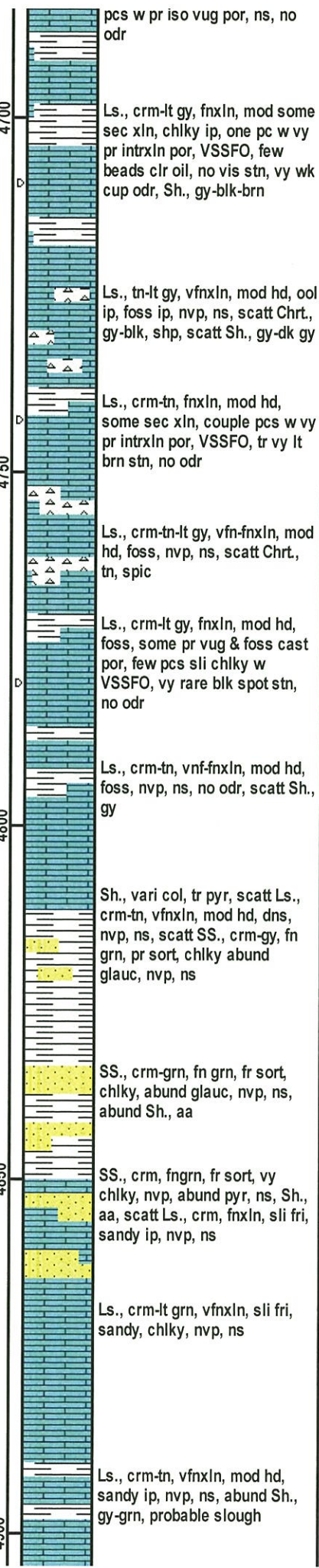
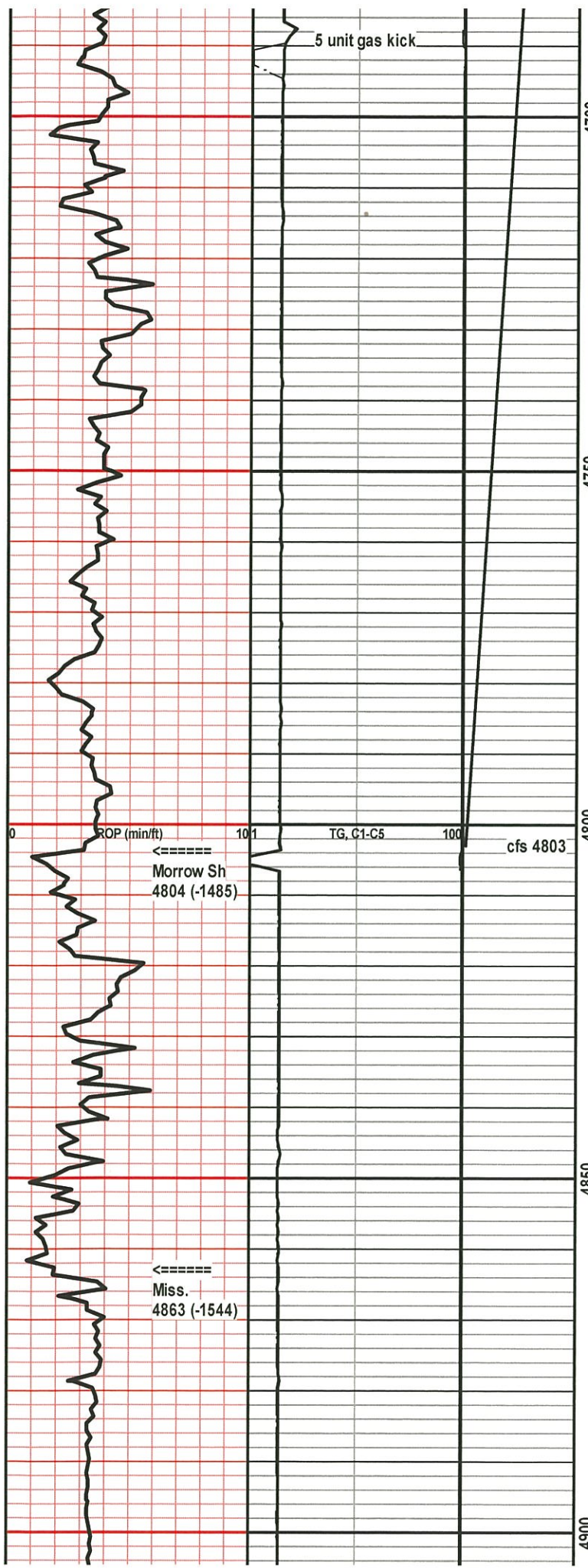






DST 1 4474-4584
 30-30-30-30
 IF: 1/4" blow, died in 20 min
 IS: No blow
 FF: No blow
 FS: No blow
 Recovery: 10' mud w oil spots
 FP: 19-21; 20-20
 SIP: 74-61
 HP: 2305-2250

DST 2 4613-4682
 30-30-30-30
 IF: 1/2" blow, receded to surface
 IS: No blow
 FF: SB, died in 15 min
 FS: No blow
 Recovery: 10' Mud w oil spots
 FP: 18-21; 22-22
 SIP: 619-570
 HP: 2362-2297



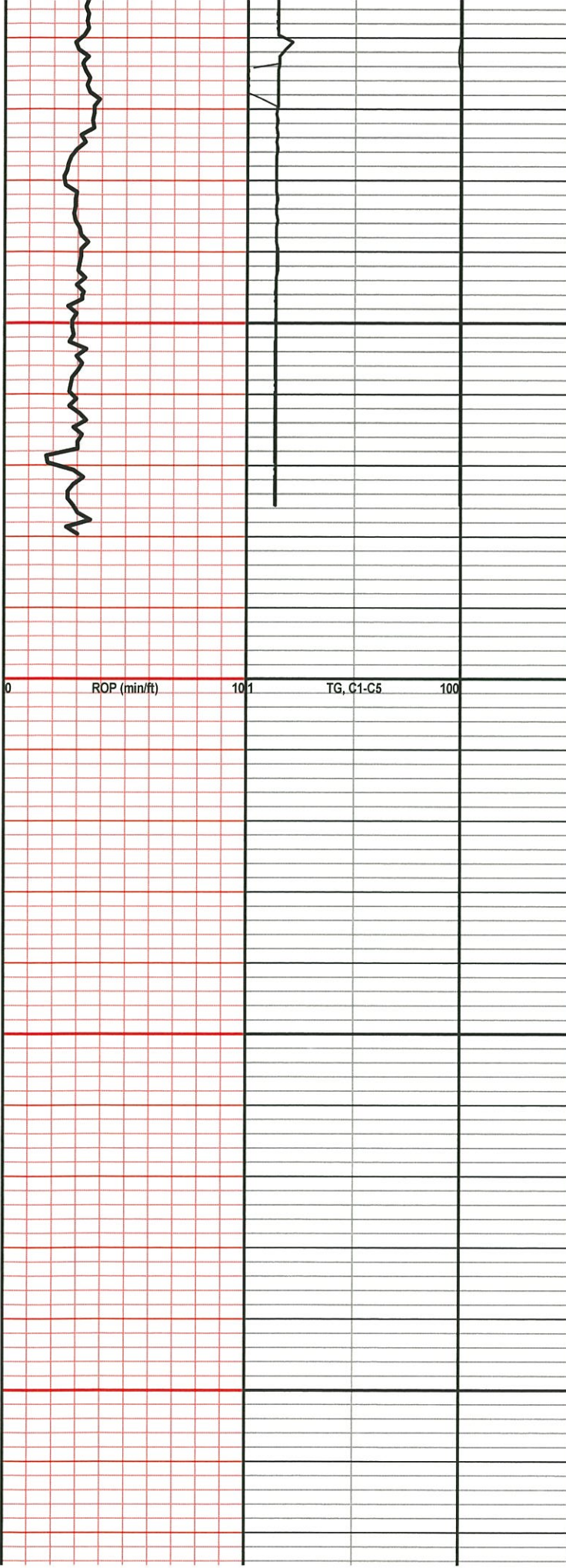
DST #3 4668-4803
 30-30-30-30
 IF: Built to 1"
 IS: No blow
 FF: No blow
 FS: No blow

Recovery: 25' Mud w oil spots in tool

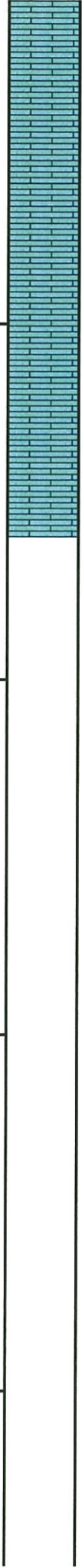
FP: 24-30; 32-35
 SIP: 863-745
 HP: 2365-2410

cfs 4803

4700
4750
4800
4850
4900



4950
5000
5050
5100



Ls. & Sh., aa

Ls., crm, fn-vfnxn, sli fri, chlky ip, nvp, ns, scatt Sh., aa

Ls., aa, incr amt of Sh., aa

Graph area with red grid lines.			

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5150

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