

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

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

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	KOEHN 6-11
Doc ID	1362495

Tops

Name	Top	Datum
Anhy.	2155	(+ 869)
Base Anhy.	2242	(+ 782)
Heebner	3915	(- 891)
Lansing	3958	(- 934)
Stark Sh.	4280	(-1256)
BKC	4412	(-1388)
Marmaton	4439	(-1415)
Pawnee	4514	(-1490)
Ft. Scott	4542	(-1518)
Cherokee Sh.	4554	(-1530)
Morrow Sh.	4734	(-1710)
Miss.	4818	(-1794)
LTD	4920	(-1896)



REMIT TO

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



RECEIVED

MAY 25 2017

MAIN OFFICE

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

Invoice

Invoice#

810291

Invoice Date: 05/22/17

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET
NEWTON KS 67114-8827
USA

33961

KOEHN 6-11

Tax: 269.18

Total: 5,631.21



PRESSURE PUMPING

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

WELD TICKET & TREATMENT REPORT CEMENT

KET NUMBER 51787
LOCATION Oakley Ks
FOREMAN Jerry Y

Invoice # 810291 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
5-18-17	6285	Koehn 6-11	11	20s	34w	Scott																
CUSTOMER <u>Palomino Petro.</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>753</td> <td>Dwain W</td> <td></td> <td></td> </tr> <tr> <td>772-T-129</td> <td>Steve O</td> <td></td> <td></td> </tr> <tr> <td>assist 639</td> <td>Seth O</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	753	Dwain W			772-T-129	Steve O			assist 639	Seth O		
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<u>Newton</u>	<u>KS</u>	<u>67114-8829</u>																				

JOB TYPE Plug HOLE SIZE 7/8 HOLE DEPTH 4921 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Softly meeting string up on WW 2 plug as ordered with 270sks 60/40
49 gal 1/4" flow seal
50 sks @ 2300'
80 sks @ 1180'
50 sks @ 650'
40 sks @ 260'
20 sks @ 60'
30 sks Retrak

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	45	MILEAGE	7.15	321.75
CE0710	11.61	ton mileage delivery	1.75	914.29
CC5829	270 sks	1.75 lb/d II	16.00	4320.00
CC6075	68 #	flow seal	3.00	204.00
			Subtotal	7660.04
			-308	2298.01
			Subtotal	5362.03
			SALES TAX	269.18
			ESTIMATED TOTAL	5631.21

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.



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

RECEIVED
 MAY 18 2017

Invoice

Invoice#

810245

Invoice Date: 05/15/17

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET
 NEWTON KS 67114-8827
 USA

KOEHN 6-11

Tax: 225.80

Total: 4,374.53



PRESSURE PUMPING

0154
8027

NET NUMBER 51783
LOCATION Oakley KS
FOREMAN Jerry V

PO BOX 664, Chanute, KS 66720
620-431-9210 or 800-467-8676

...LD TICKET & TREATMENT REPORT

CEMENT

Invoice #810215

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
5-9-17	6285	Koehn 6-11	11	20S	34W	Scott												
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JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 218 CASING SIZE & WEIGHT 8 5/8
 CASING DEPTH 218 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 12 1/2 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on rig up on UG 2 break circulation with rig the max 165 sks surface blend II wash up and's place with 12 1/2 bbl fresh water & shut in circulated approx 4561 to pit

cement did circulate (SA)

Thank you
Jerry + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471		PUMP CHARGE	1150.00	1150.00
CE0002	45	MILEAGE	7.15	321.75
CE0711	7.76	ton mileage delivery	660.00	660.00
CC5871	165 sks	surface blend II	23.00	3795.00
			subtotal	5926.75
			-30%	1778.03
			subtotal	4148.72
			SALES TAX	225.80
			ESTIMATED TOTAL	4374.53

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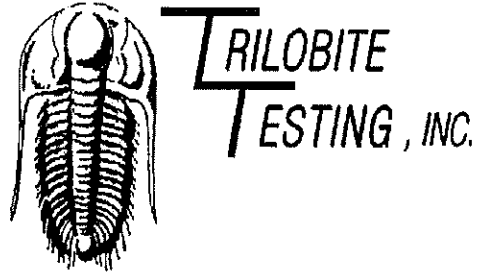
(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will 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.

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



DRILL STEM TEST REPORT

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

4924 SE 84th St.
Newton KS 67114

ATTN: Andrew Stenzel

Koehn #6-11

11 20s 34w Scott,KS

Start Date: 2017.05.13 @ 23:05:00

End Date: 2017.05.14 @ 05:03:00

Job Ticket #: 61360 DST #: 1

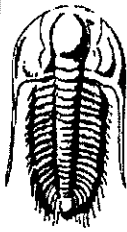
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.05.18 @ 10:56:53

Palomino Petroleum, Inc. 11 20s 34w Scott,KS Koehn #6-11 DST # 1 LKC - H 2017.05.13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61360

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.05.13 @ 23:05:00

GENERAL INFORMATION:

Formation: **LKC - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:19:30

Time Test Ended: 05:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **4167.00 ft (KB) To 4208.00 ft (KB) (TVD)**

Total Depth: **4208.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Good

Reference Elevations: **3924.00 ft (KB)**

3919.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8845

Outside

Press@RunDepth: **28.90 psig @ 4168.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2017.05.13**

End Date:

2017.05.14

Last Calib.: **2017.05.14**

Start Time: **23:05:05**

End Time:

05:02:59

Time On Blm: **2017.05.14 @ 01:19:15**

Time Off Blm: **2017.05.14 @ 03:23:45**

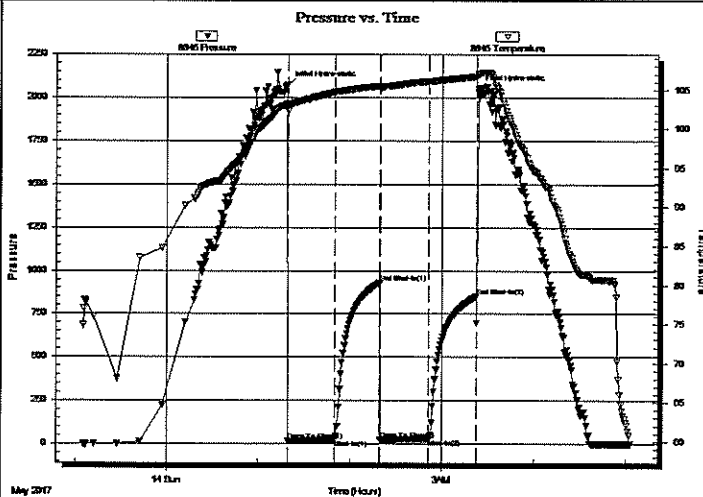
TEST COMMENT:

IF: 1" blow.

ISI: No return

FF: Surface blow.

FSI: No return.



PRESSURE SUMMARY

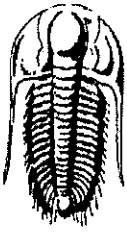
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.77	103.30	Initial Hydro-static
1	15.60	102.20	Open To Flow (1)
31	22.23	104.67	Shut-In(1)
60	931.99	105.48	End Shut-In(1)
60	23.59	104.99	Open To Flow (2)
92	28.90	106.07	Shut-In(2)
124	852.12	106.68	End Shut-In(2)
125	2052.37	106.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m (oil spots)	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61360

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.05.13 @ 23:05:00

GENERAL INFORMATION:

Formation: LKC - H
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:19:30
 Time Test Ended: 05:03:00

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

Interval: 4167.00 ft (KB) To 4208.00 ft (KB) (TVD)
 Total Depth: 4208.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

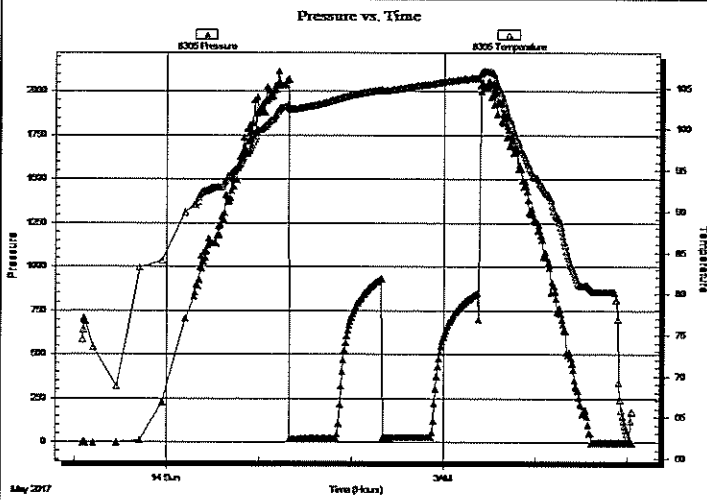
Reference Elevations: 3924.00 ft (KB)
 3919.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4168.00 ft (KB)
 Start Date: 2017.05.13 End Date: 2017.05.14
 Start Time: 23:05:05 End Time: 05:02:59

Capacity: 8000.00 psig
 Last Calib.: 2017.05.14
 Time On Btm:
 Time Off Btm:

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



PRESSURE SUMMARY

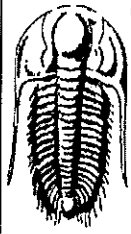
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m (oil spots)	0.20

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61360

DST#: 1

ATTN: Andrew Stenzel

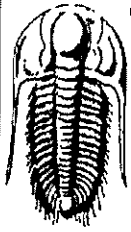
Test Start: 2017.05.13 @ 23:05:00

Tool Information

Drill Pipe:	Length: 4033.00 ft	Diameter: 3.80 inches	Volume: 56.57 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: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4167.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4141.00	
Shut In Tool	5.00			4146.00	
Hydraulic tool	5.00			4151.00	
Jars	5.00			4156.00	
Safety Joint	2.00			4158.00	
Packer	5.00			4163.00	27.00 Bottom Of Top Packer
Packer	4.00			4167.00	
Stubb	1.00			4168.00	
Recorder	0.00	8365	Inside	4168.00	
Recorder	0.00	8845	Outside	4168.00	
Perforations	4.00			4172.00	
Change Over Sub	1.00			4173.00	
Drill Pipe	31.00			4204.00	
Change Over Sub	1.00			4205.00	
Bullnose	3.00			4208.00	41.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61360

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.05.13 @ 23:05:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100m (oil spots)	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

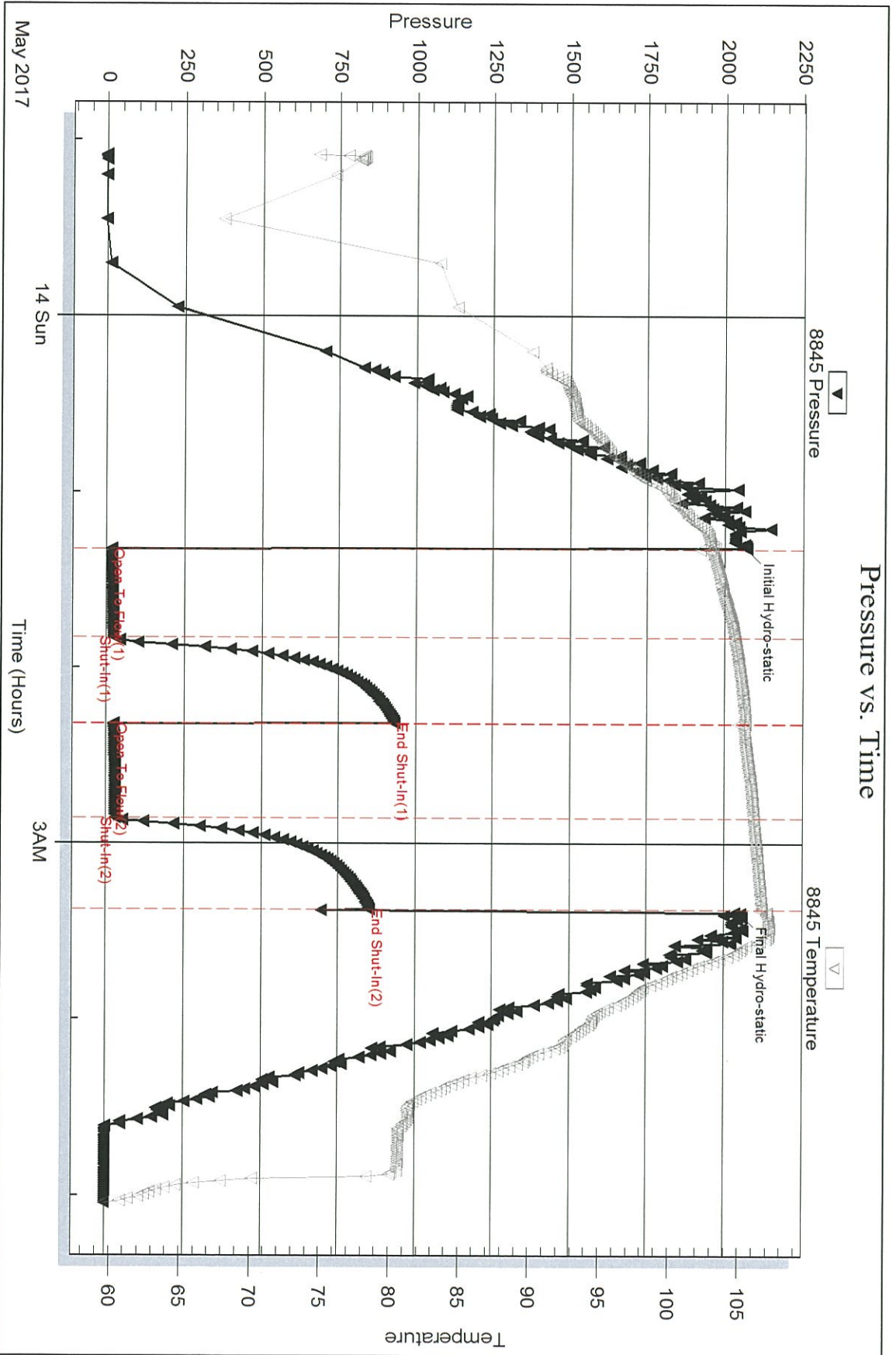
Recovery Comments:

Serial #: 8845

Outside Palomino Petroleum, Inc.

Koehn #6-11

DST Test Number: 1



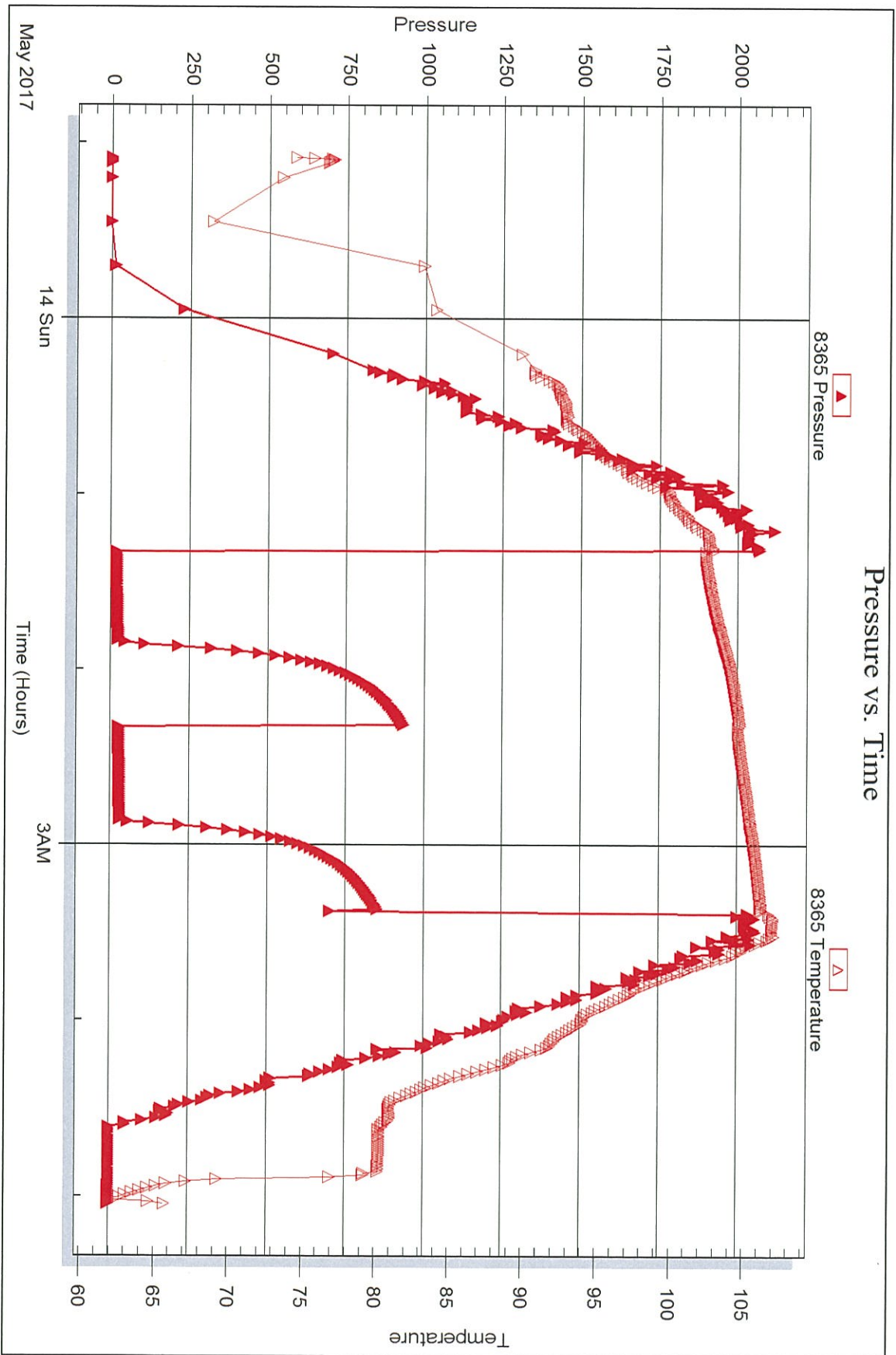
Serial #: 8365

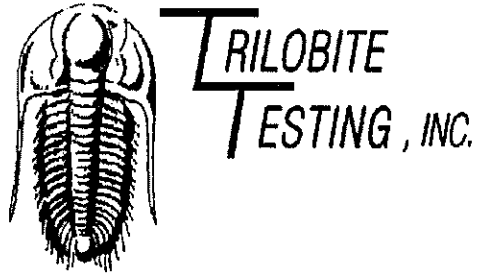
Inside

Palomino Petroleum, Inc.

Koehn #-6-11

DST Test Number: 1





DRILL STEM TEST REPORT

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

4924 SE 84th St.
Newton KS 67114

ATTN: Andrew Stenzel

Koehn #6-11

11 20s 34w Scott,KS

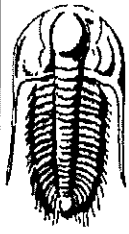
Start Date: 2017.05.14 @ 12:05:00

End Date: 2017.05.14 @ 18:27:00

Job Ticket #: 61361 DST #: 2

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

Printed: 2017.05.18 @ 10:56:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61361

DST#: 2

ATTN: Andrew Stenzel

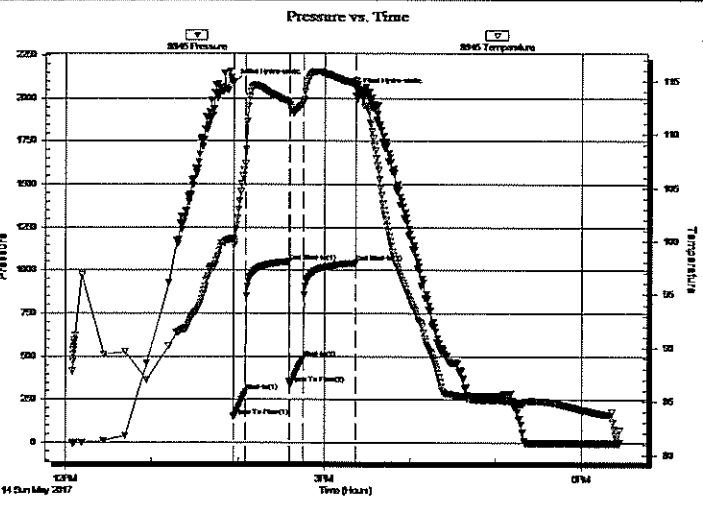
Test Start: 2017.05.14 @ 12:05:00

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:57:00
 Time Test Ended: 18:27:00
 Interval: **4201.00 ft (KB) To 4240.00 ft (KB) (TVD)**
 Total Depth: **4240.00 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: **3924.00 ft (KB)**
3919.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8845 Outside
 Press@RunDepth: **486.93 psig @ 4202.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2017.05.14** End Date: **2017.05.14** Last Calib.: **2017.05.14**
 Start Time: **12:05:05** End Time: **18:26:59** Time On Btm: **2017.05.14 @ 13:56:30**
 Time Off Btm: **2017.05.14 @ 15:22:15**

TEST COMMENT: IF: BOB @ 45 sec.
 IS: No return.
 FF: BOB @ 75 sec.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2090.36	100.14	Initial Hydro-static
1	150.59	99.64	Open To Flow (1)
9	295.41	107.27	Shut-In(1)
39	1049.94	113.06	End Shut-In(1)
40	341.12	112.83	Open To Flow (2)
49	486.93	112.95	Shut-In(2)
86	1044.52	114.69	End Shut-In(2)
86	2040.25	114.94	Final Hydro-static

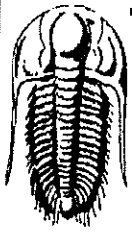
Recovery

Length (ft)	Description	Volume (bbl)
1010.00	mcw 5m 95w w/H2S <40ppm	13.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

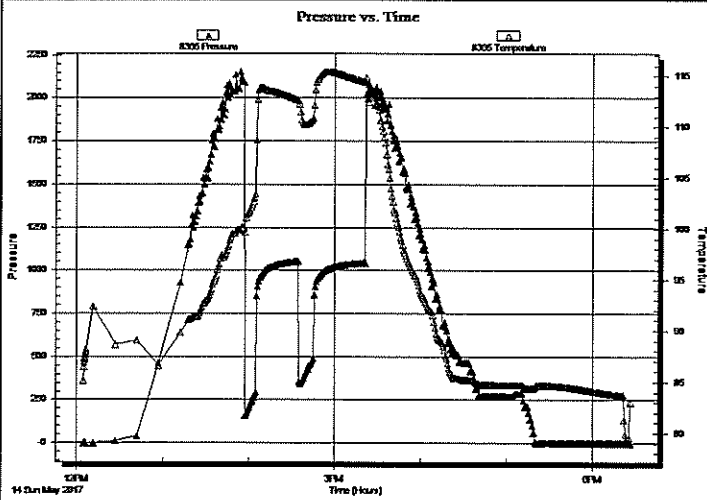
11 20s 34w Scott,KS
Koehn #6-11
Job Ticket: 61361 DST#: 2
Test Start: 2017.05.14 @ 12:05:00

GENERAL INFORMATION:

Formation:	LKC I	Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:		
Time Tool Opened:	13:57:00	Tester:	Bradley Walter
Time Test Ended:	18:27:00	Unit No:	78
Interval:	4201.00 ft (KB) To 4240.00 ft (KB) (TVD)	Reference Elevations:	3924.00 ft (KB)
Total Depth:	4240.00 ft (KB) (TVD)		3919.00 ft (CF)
Hole Diameter:	7.88 inchesHole Condition: Good	KB to GR/CF:	5.00 ft

Serial #:	8365	Inside	
Press@RunDepth:	psig @	4202.00 ft (KB)	Capacity:
			8000.00 psig
Start Date:	2017.05.14	End Date:	2017.05.14
Start Time:	12:05:05	End Time:	18:26:59
			Last Calib.:
			2017.05.14
			Time On Btm:
			Time Off Btm:

TEST COMMENT: IF: BOB @ 45 sec.
IS: No return.
FF: BOB @ 75 sec.
FS: No return.



PRESSURE SUMMARY

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

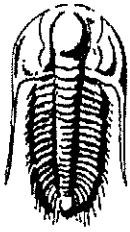
Recovery

Length (ft)	Description	Volume (bbl)
1010.00	mcw 5m 95w w/H2S <40ppm	13.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61361

DST#: 2

ATTN: Andrew Stenzel

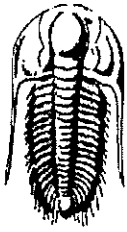
Test Start: 2017.05.14 @ 12:05:00

Tool Information

Drill Pipe:	Length: 4064.00 ft	Diameter: 3.80 inches	Volume: 57.01 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: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4201.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4175.00	
Shut In Tool	5.00			4180.00	
Hydraulic tool	5.00			4185.00	
Jars	5.00			4190.00	
Safety Joint	2.00			4192.00	
Packer	5.00			4197.00	27.00 Bottom Of Top Packer
Packer	4.00			4201.00	
Stubb	1.00			4202.00	
Recorder	0.00	8365	Inside	4202.00	
Recorder	0.00	8845	Outside	4202.00	
Perforations	2.00			4204.00	
Change Over Sub	1.00			4205.00	
Drill Pipe	31.00			4236.00	
Change Over Sub	1.00			4237.00	
Bullnose	3.00			4240.00	39.00 Bottom Packers & Anchor
Total Tool Length:	66.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61361

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.05.14 @ 12:05:00

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:

51000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

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
1010.00	mcw 5m 95w w/H2S <40ppm	13.075

Total Length: 1010.00 ft Total Volume: 13.075 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

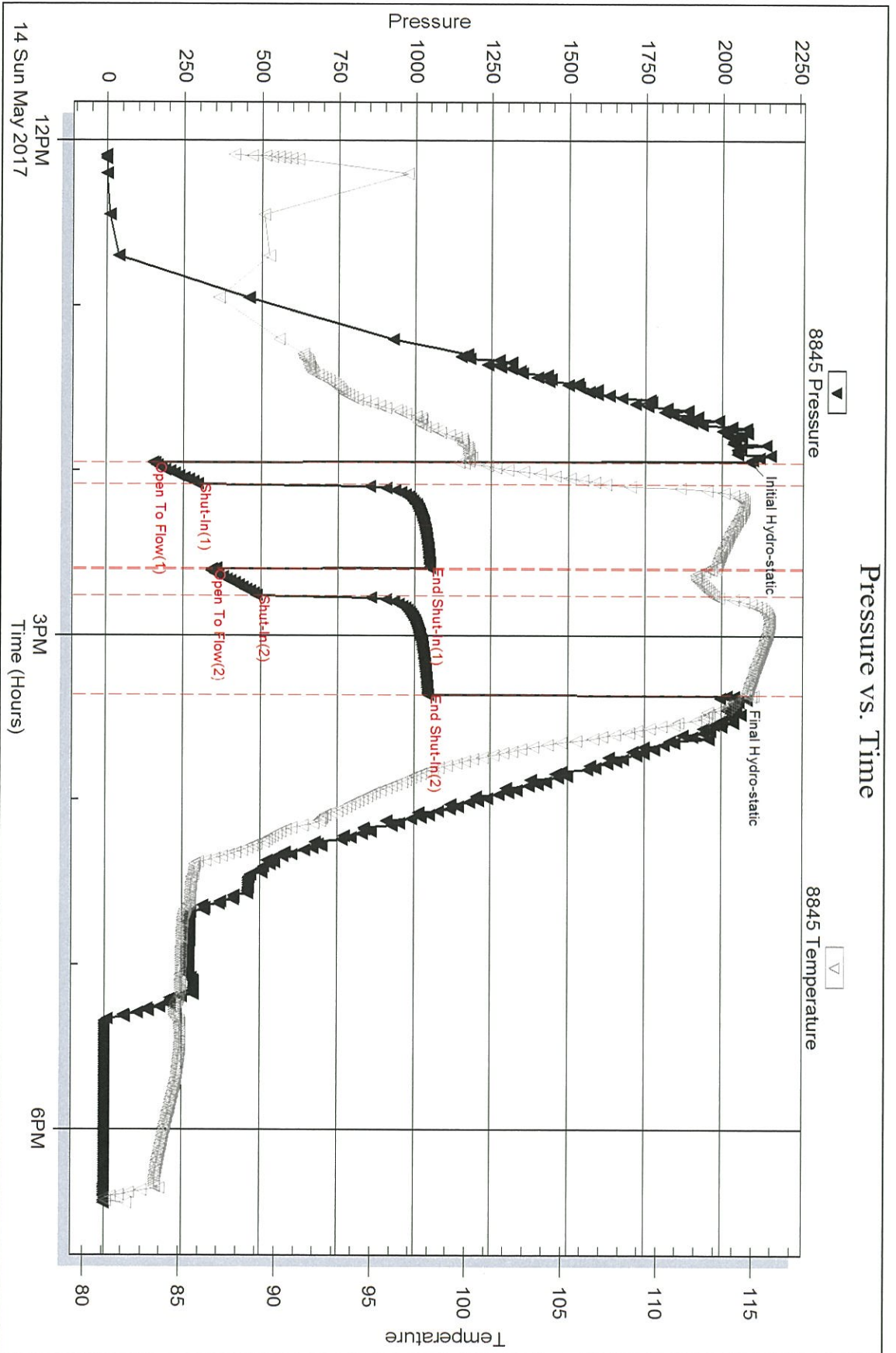
Recovery Comments: rw is .161 @ 76f = 51000ppm
dropped bar

Serial #: 8845

Outside Palomino Petroleum, Inc.

Koehn #-11

DST Test Number: 2



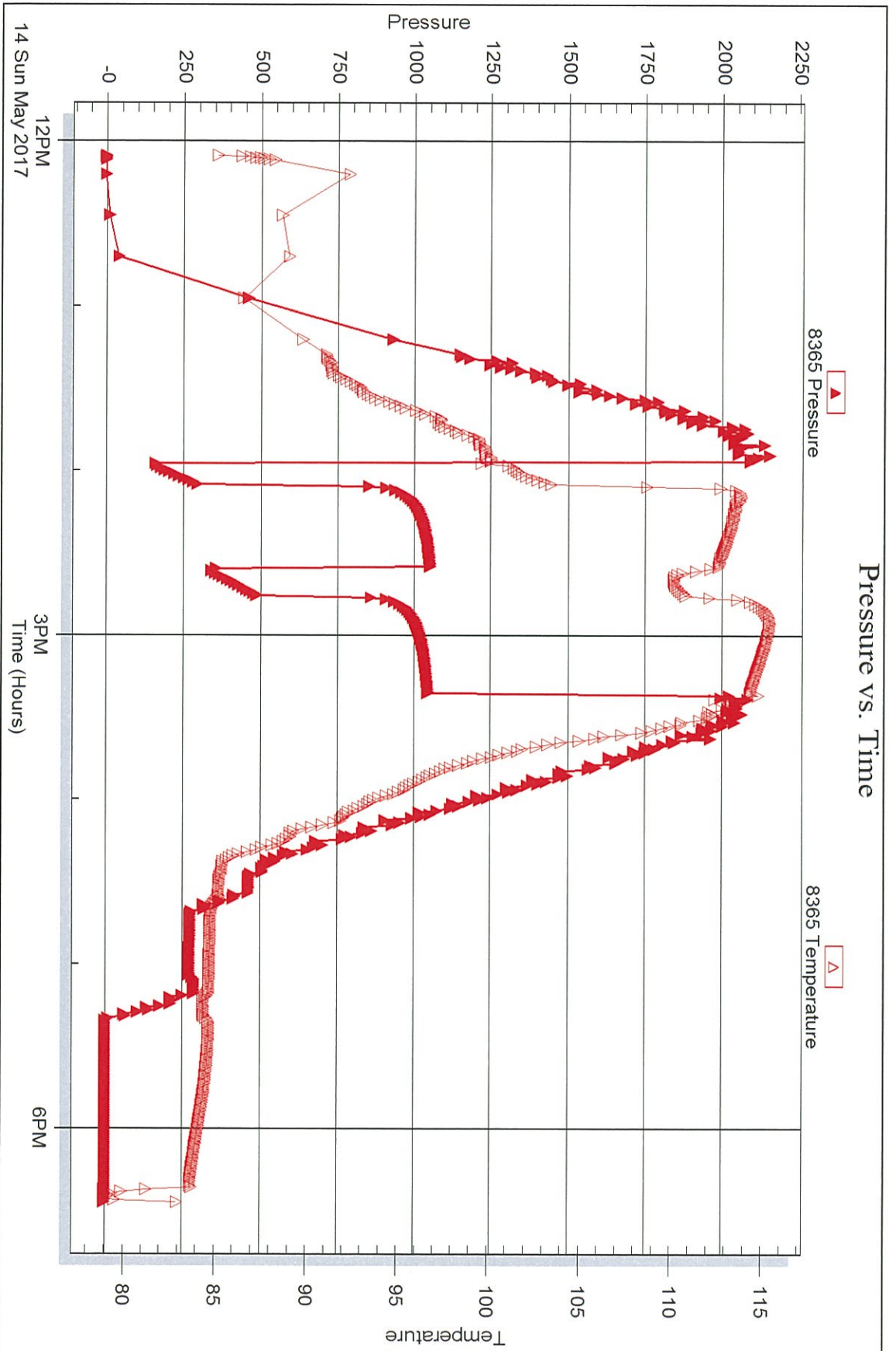
Serial #: 8365

Inside

Palomino Petroleum, Inc.

Koehn #6-11

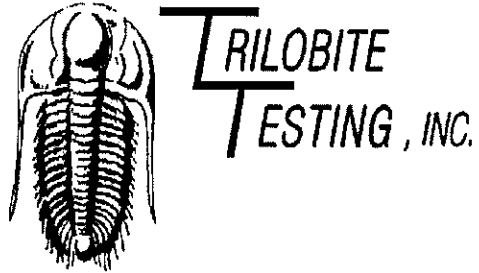
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 61361

Printed: 2017.05.18 @ 10:56:25



DRILL STEM TEST REPORT

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

4924 SE 84th St.
Newton KS 67114

ATTN: Andrew Stenzel

Koehn #6-11

11 20s 34w Scott,KS

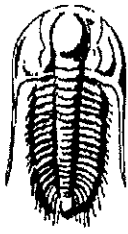
Start Date: 2017.05.15 @ 19:38:00

End Date: 2017.05.16 @ 02:42:15

Job Ticket #: 61362 DST #: 3

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

Printed: 2017.05.18 @ 10:55:51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

4924 SE 84th St.
Newton KS 67114

ATTN: Andrew Stenzel

11 20s 34w Scott,KS

Koehn #6-11

Job Ticket: 61362

DST#: 3

Test Start: 2017.05.15 @ 19:38:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:37:00

Time Test Ended: 02:42:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4410.00 ft (KB) To 4520.00 ft (KB) (TVD)**

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3924.00 ft (KB)

3919.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 165.50 psig @ 4411.00 ft (KB)

Start Date: 2017.05.15

End Date:

2017.05.16

Start Time: 19:38:05

End Time:

02:42:14

Capacity: 8000.00 psig

Last Calib.: 2017.05.16

Time On Btm: 2017.05.15 @ 21:36:45

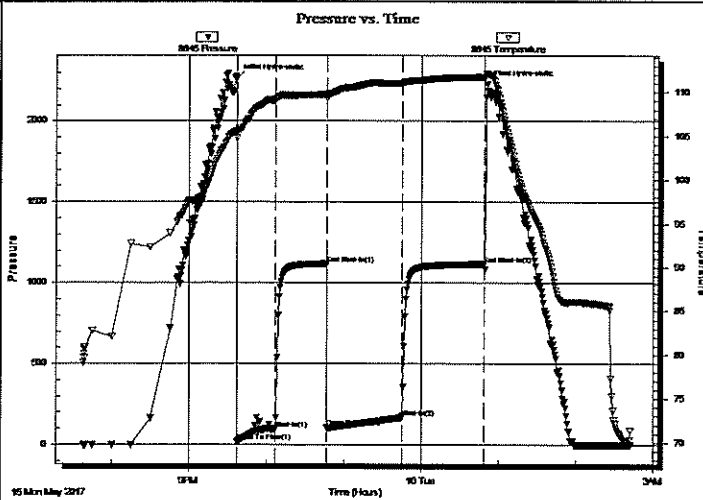
Time Off Btm: 2017.05.16 @ 00:51:00

TEST COMMENT: IF: 7 1/2" blow.

ISI: No return.

FF: BOB @ 50 min.

FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.66	105.51	Initial Hydro-static
1	19.76	104.72	Open To Flow (1)
31	98.15	109.24	Shut-In(1)
70	1117.37	109.78	End Shut-In(1)
71	109.02	109.36	Open To Flow (2)
129	165.50	111.05	Shut-In(2)
193	1117.36	111.76	End Shut-In(2)
195	2229.66	112.15	Final Hydro-static

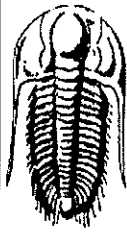
Recovery

Length (ft)	Description	Volume (bbl)
285.00	w cm 40w 60m (oil spots)	2.90

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

11 20s 34w Scott,KS

4924 SE 84th St.
Newton KS 67114

Koehn #6-11

Job Ticket: 61362

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.05.15 @ 19:38:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:37:00
Time Test Ended: 02:42:15

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

Interval: **4410.00 ft (KB) To 4520.00 ft (KB) (TVD)**
Total Depth: 4520.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

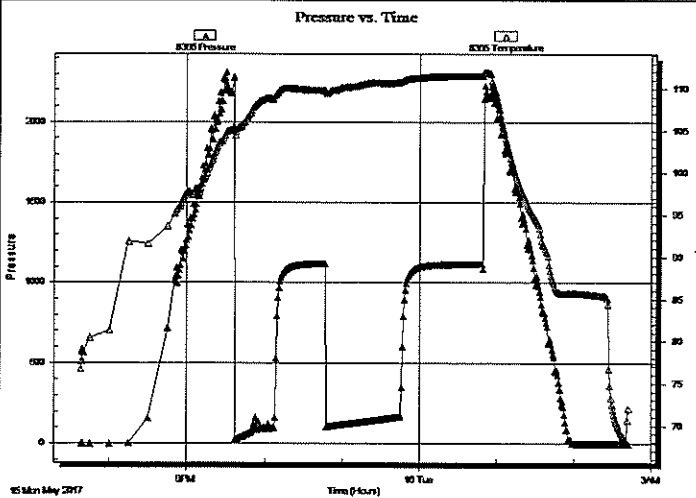
Reference Elevations: 3924.00 ft (KB)
3919.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4411.00 ft (KB)
Start Date: 2017.05.15 End Date: 2017.05.16
Start Time: 19:38:05 End Time: 02:42:14

Capacity: 8000.00 psig
Last Calib.: 2017.05.16
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 7 1/2" blow.
ISI: No return.
FF: BOB @ 50 min.
FSI: No return.



PRESSURE SUMMARY

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

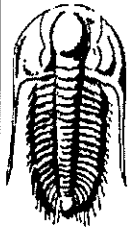
Recovery

Length (ft)	Description	Volume (bbl)
285.00	w cm 40w 60m (oil spots)	2.90

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61362

DST#: 3

ATTN: Andrew Stenzel

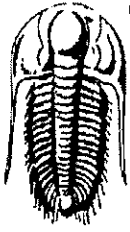
Test Start: 2017.05.15 @ 19:38:00

Tool Information

Drill Pipe:	Length: 4285.00 ft	Diameter: 3.80 inches	Volume: 60.11 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: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4410.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	137.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4384.00	
Shut In Tool	5.00			4389.00	
Hydraulic tool	5.00			4394.00	
Jars	5.00			4399.00	
Safety Joint	2.00			4401.00	
Packer	5.00			4406.00	27.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	8365	Inside	4411.00	
Recorder	0.00	8845	Outside	4411.00	
Perforations	9.00			4420.00	
Change Over Sub	1.00			4421.00	
Drill Pipe	95.00			4516.00	
Change Over Sub	1.00			4517.00	
Bullnose	3.00			4520.00	110.00 Bottom Packers & Anchor
Total Tool Length:	137.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61362

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.05.15 @ 19:38:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

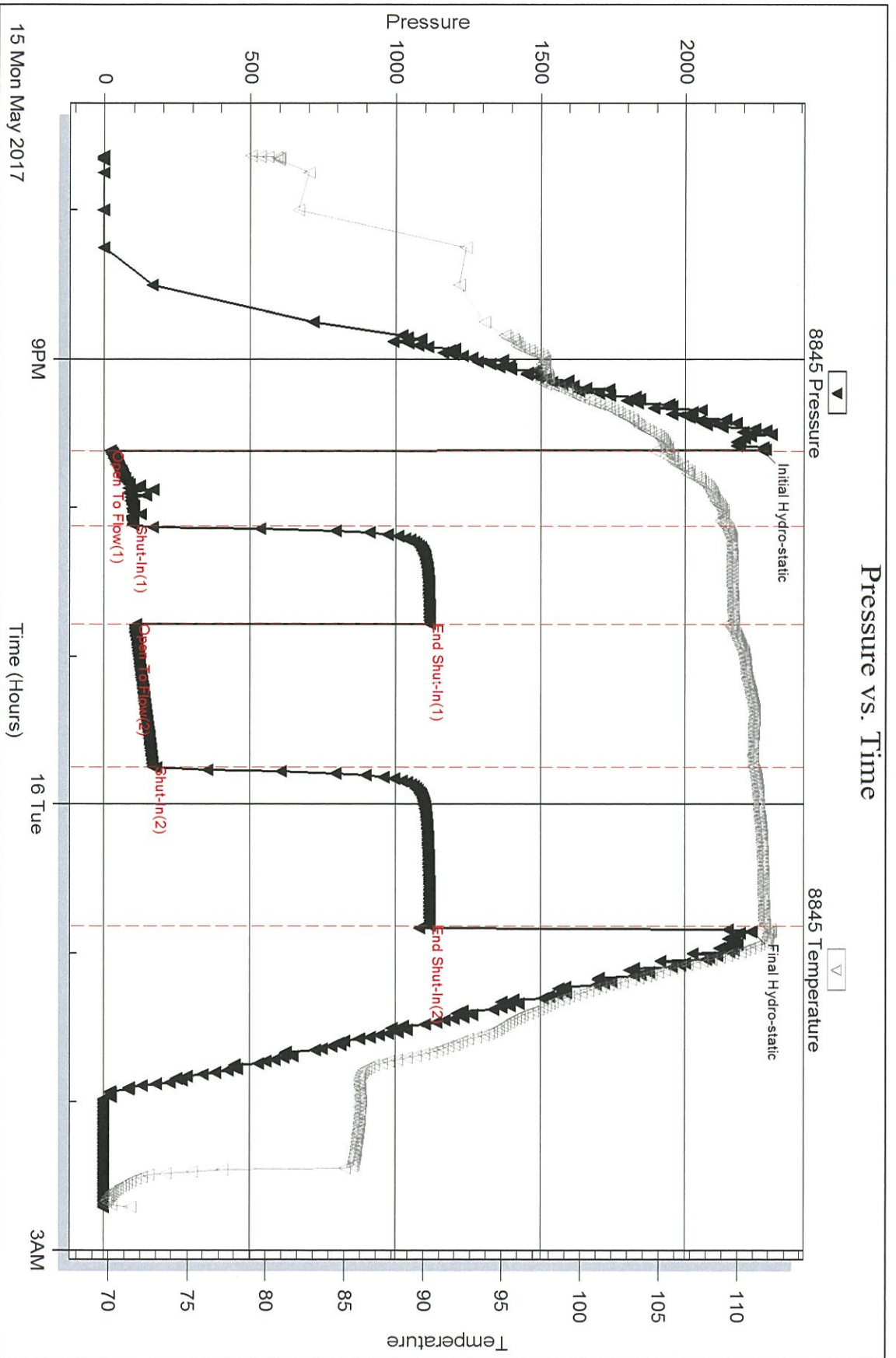
Length ft	Description	Volume bbl
285.00	w cm 40w 60m (oil spots)	2.905

Total Length: 285.00 ft Total Volume: 2.905 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



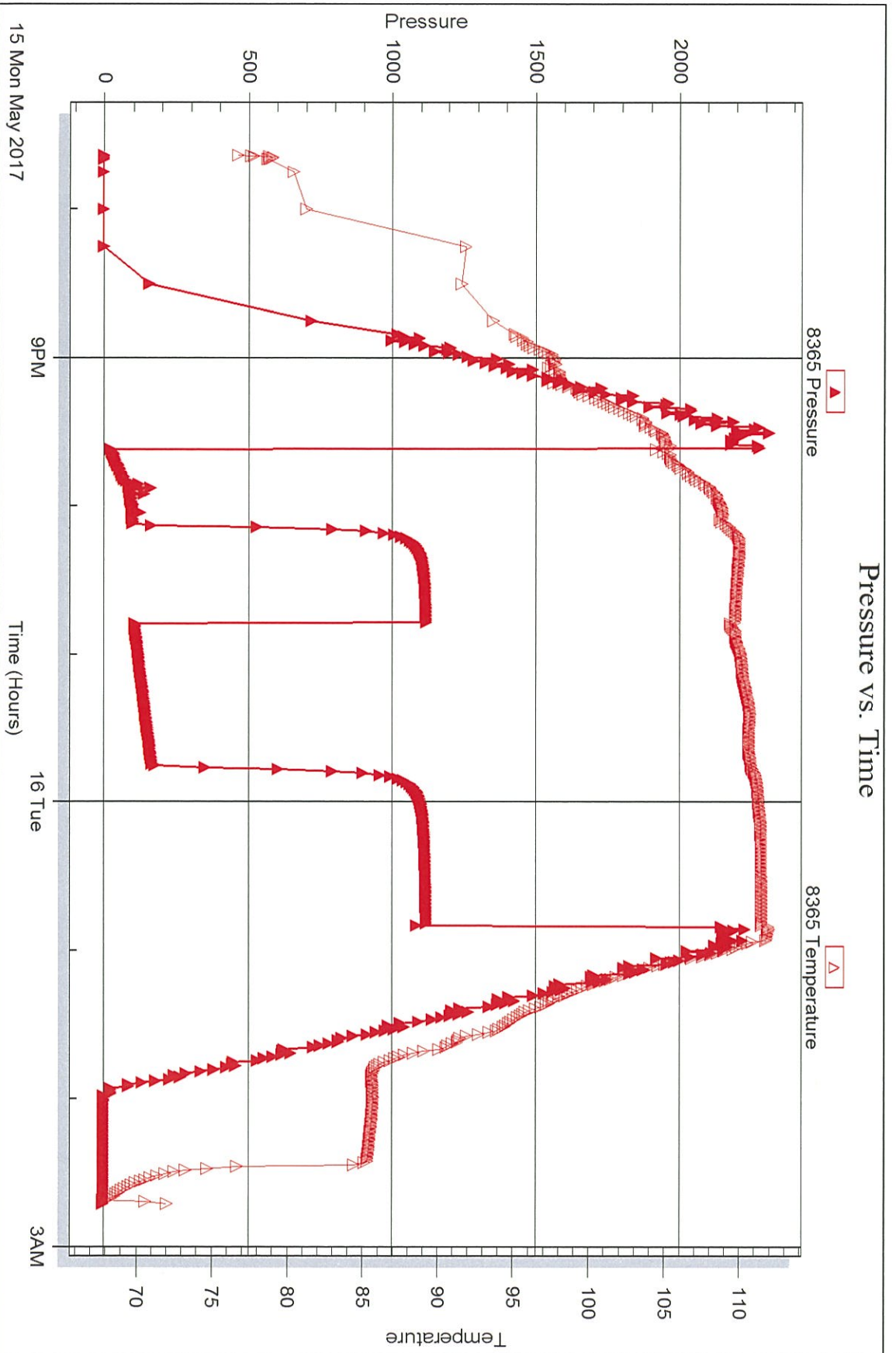
Serial #: 8365

Inside

Palomino Petroleum, Inc.

Koehn #-6-11

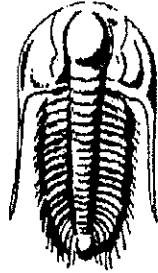
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61362

Printed: 2017.05.18 @ 10:55:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

4924 SE 84th St.
Newton KS 67114

ATTN: Andrew Stenzel

Koehn #6-11

11 20s 34w Scott,KS

Start Date: 2017.05.16 @ 12:45:00

End Date: 2017.05.16 @ 19:46:45

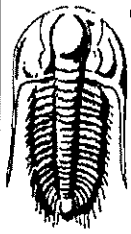
Job Ticket #: 61363 DST #: 4

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.05.18 @ 10:49:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
Newton KS 67114

Koehn #6-11

Job Ticket: 61363

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2017.05.16 @ 12:45:00

GENERAL INFORMATION:

Formation: Pawnee - Ft Scott

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:20:15

Time Test Ended: 19:46:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Waller

Unit No: 78

Interval: 4514.00 ft (KB) To 4585.00 ft (KB) (TVD)

Total Depth: 4585.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3924.00 ft (KB)

3919.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 459.56 psig @ 4515.00 ft (KB)

Start Date: 2017.05.16

End Date:

2017.05.16

Start Time: 12:45:05

End Time:

19:46:44

Capacity: 8000.00 psig

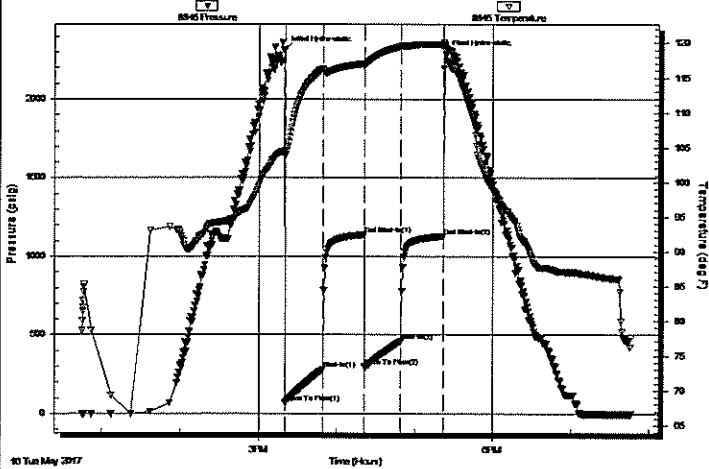
Last Calib.: 2017.05.16

Time On Btm: 2017.05.16 @ 15:20:00

Time Off Btm: 2017.05.16 @ 17:23:15

TEST COMMENT: IF: BOB @ 4 min.
IS: 1/4" return.
FF: BOB @ 4 1/2 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.53	104.50	Initial Hydro-static
1	66.32	103.66	Open To Flow (1)
30	280.74	116.34	Shut-In(1)
61	1139.83	117.02	End Shut-In(1)
61	300.79	116.56	Open To Flow (2)
90	459.56	119.49	Shut-In(2)
122	1129.81	119.73	End Shut-In(2)
124	2288.68	119.42	Final Hydro-static

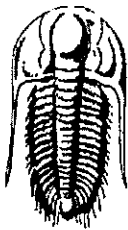
Recovery

Length (ft)	Description	Volume (bbl)
975.00	mcw 3m 97w (oil spots)	12.58

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

11 20s 34w Scott,KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61363

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2017.05.16 @ 12:45:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:20:15

Time Test Ended: 19:46:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Waiter

Unit No: 78

Interval: 4514.00 ft (KB) To 4585.00 ft (KB) (TVD)

Reference Elevations: 3924.00 ft (KB)

Total Depth: 4585.00 ft (KB) (TVD)

3919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: psig @ 4515.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.05.16 End Date: 2017.05.16

Last Calib.: 2017.05.16

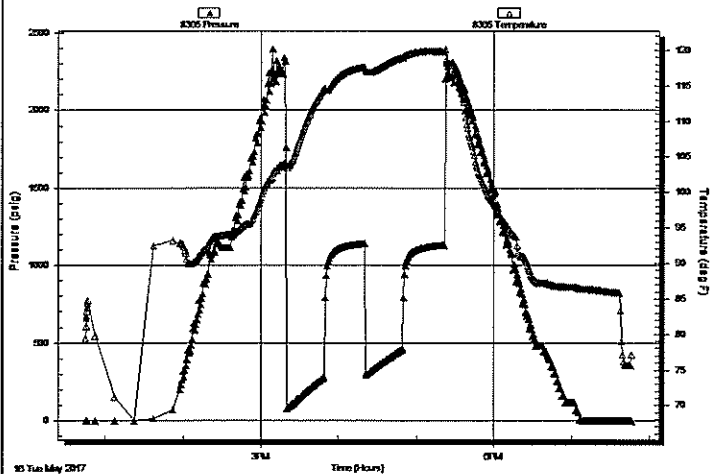
Start Time: 12:45:05 End Time: 19:46:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 4 min.
IS: 1/4" return.
FF: BOB @ 4 1/2 min.
FSI: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

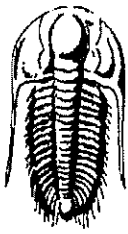
Recovery

Length (ft)	Description	Volume (bbl)
975.00	mcw 3m 97w (oil spots)	12.58

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61363

DST#: 4

ATTN: Andrew Stenzel

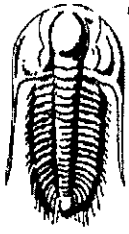
Test Start: 2017.05.16 @ 12:45:00

Tool Information

Drill Pipe:	Length: 4375.00 ft	Diameter: 3.80 inches	Volume: 61.37 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: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4514.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4488.00	
Shut In Tool	5.00			4493.00	
Hydraulic tool	5.00			4498.00	
Jars	5.00			4503.00	
Safety Joint	2.00			4505.00	
Packer	5.00			4510.00	27.00 Bottom Of Top Packer
Packer	4.00			4514.00	
Stubb	1.00			4515.00	
Recorder	0.00	8365	Inside	4515.00	
Recorder	0.00	8845	Outside	4515.00	
Perforations	2.00			4517.00	
Change Over Sub	1.00			4518.00	
Drill Pipe	63.00			4581.00	
Change Over Sub	1.00			4582.00	
Bullnose	3.00			4585.00	71.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

11 20s 34w Scott, KS

4924 SE 84th St.
New ton KS 67114

Koehn #6-11

Job Ticket: 61363

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2017.05.16 @ 12:45:00

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: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
975.00	mcw 3m 97w (oil spots)	12.584

Total Length: 975.00 ft Total Volume: 12.584 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .195 @ 73F = 38000 ppm

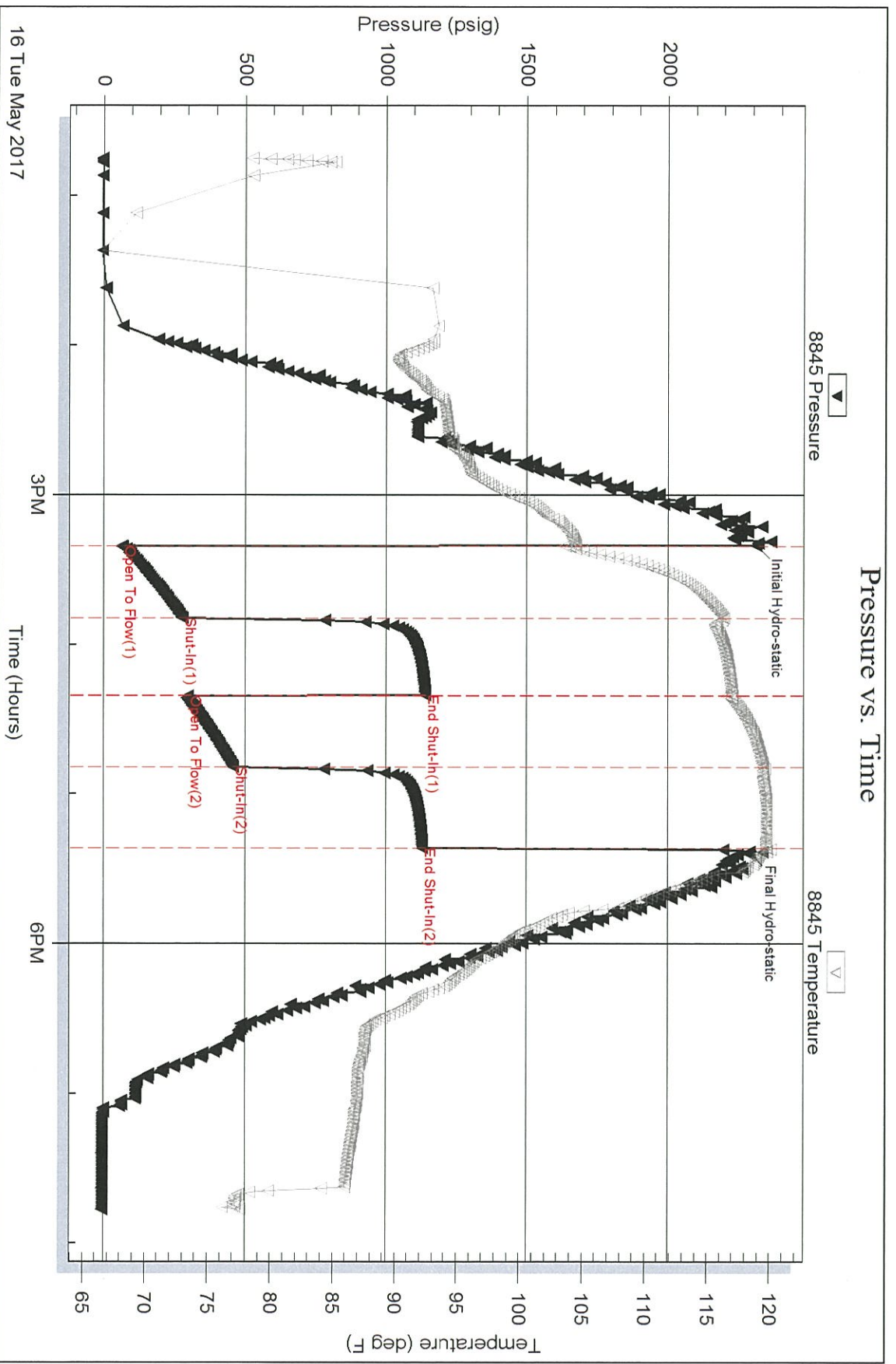
Serial #: 8845

Outside

Palomino Petroleum, Inc.

Koehn #-6-11

DST Test Number: 4



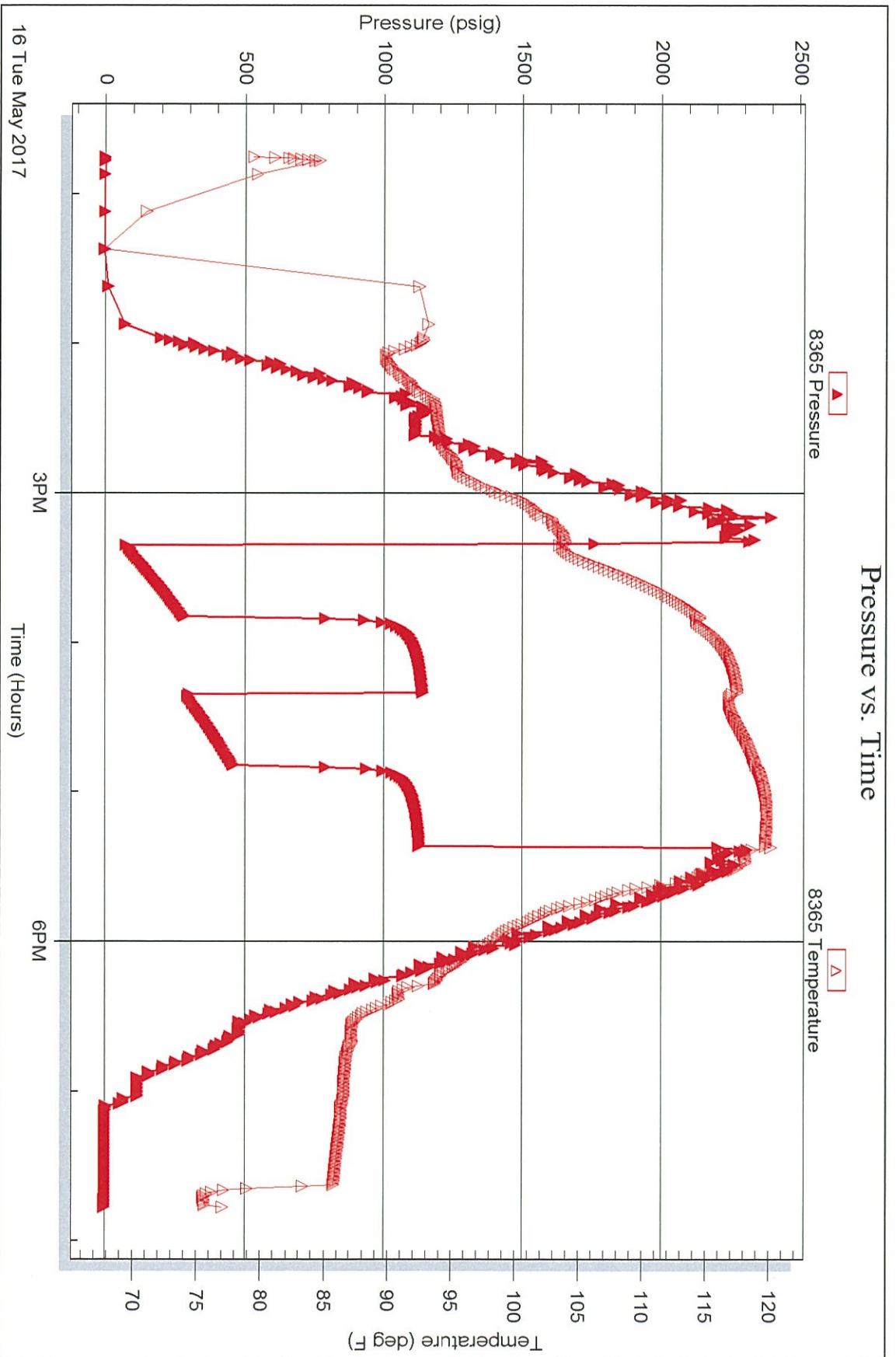
Serial #: 8365

Inside

Palomino Petroleum, Inc.

Koehn #6-11

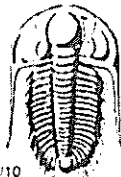
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 61363

Printed: 2017.05.18 @ 10:49:17



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

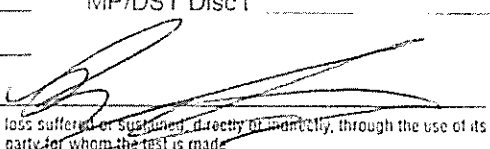
NO. 61360

Well Name & No. #1 Koehn 6-11 Test No. 1 Date 5/14/2017
 Company Palomino Petroleum Inc Elevation 3024 KB 3019 GL
 Address 4924 SE 84th St. Newton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW#2
 Location: Sec. 11 Twp. 20S Rge. 34W Co. Scott State KS

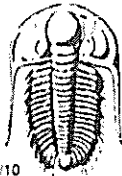
Interval Tested 4167 - 4208 Zone Tested LKC H
 Anchor Length 41 Drill Pipe Run 4033 Mud Wt. 9.8
 Top Packer Depth 4162 Drill Collars Run 120 Vis 5.3
 Bottom Packer Depth 4167 Wt. Pipe Run 0 WL 7.2
 Total Depth 4208 Chlorides 3500 ppm System LCM 1st
 Blow Description IF 1" b/w
ISI No return
FF Surface blow
FST No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>mod</u>			<u>100</u>	
	<u>OIL SPOTS</u>				

Rec Total 40 BHT 107 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2071 Test 1150 T-On Location 2100
 (B) First Initial Flow 16 Jars 250 T-Started 2305
 (C) First Final Flow 22 Safety Joint 75 T-Open 0120
 (D) Initial Shut-In 932 Circ Sub NC T-Pulled 0320
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 0503
 (F) Second Final Flow 29 Mileage 39 RT 29.25 Comments _____
 (G) Final Shut-In 852 Sampler _____
 (H) Final Hydrostatic 2052 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1504.25

Approved By _____ Our Representative 

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61361

Well Name & No. Koehn 6-11 Test No. 2 Date 5/14/2017
 Company Palermo Petroleum, Inc Elevation 3024 KB 3019 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Stanzel Rig WW #2
 Location: Sec. 11 Twp. 20S Rge. 54W Co. Scott State KS

Interval Tested LKC F 4201-4240 Zone Tested LKC F
 Anchor Length 39 Drill Pipe Run 4064 Mud Wt. 9.0
 Top Packer Depth 496 Drill Collars Run 120 Vis 54
 Bottom Packer Depth 4201 Wt. Pipe Run 0 WL 8.0
 Total Depth 4240 Chlorides 4000 ppm System LCM #


Blow Description IF BOB @ 45 sec
ISI No return.
FF BOB @ 75 sec
PSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1010</u>	<u>mcw w/H2S <40ppm</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1010 BHT 114 Gravity — API RW 161 @ 76 °F Chlorides 51000 ppm

(A) Initial Hydrostatic 2090 Test 1150 T-On Location _____
 (B) First Initial Flow 151 Jars 250 T-Started 1205
 (C) First Final Flow 295 Safety Joint 75 T-Open 1400
 (D) Initial Shut-In 1050 Circ Sub used 50 T-Pulled 1515
 (E) Second Initial Flow 241 Hourly Standby _____ T-Out 1927
 (F) Second Final Flow 457 Mileage 39 AT 29.25 Comments _____
 (G) Final Shut-In 1045 Sampler _____
 (H) Final Hydrostatic 2040 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Extra Copies _____
 Day Standby _____
 Accessibility _____

Initial Open 5
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In 30
 Sub Total 0
 Total 1554.25
 MP/DST Disc't _____
 Sub Total 1554.25

Approved By _____ Our Representative 

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61362

Well Name & No. Koehn 6-11 Test No. 3 Date 5/15/2017
 Company Palomino Petroleum, Inc Elevation 3024 KB 3019 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW # 2
 Location: Sec. 11 Twp. 20s Rge. 34w Co. Scott State KS

Interval Tested 4410 - 4520 Zone Tested Marmaton
 Anchor Length 110 Drill Pipe Run 4285 Mud Wt. 9.4
 Top Packer Depth 4405 Drill Collars Run 120 Vis 50
 Bottom Packer Depth 4410 Wt. Pipe Run Ø WL 5.0
 Total Depth 4520 Chlorides 5,000 ppm System LCM 1 #

Blow Description IF 7 1/2" blow
JSS No return.
FF BOB @ 50 min.
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>285</u>	<u>WCM OIL SPOTS</u>			<u>40%</u>	<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 285 BHT 111 Gravity — API RW — @ — F Chlorides — ppm
 (A) Initial Hydrostatic 2265 Test 1150 T-On Location 1630
 (B) First Initial Flow 20 Jars 250 T-Started 1438
 (C) First Final Flow 98 Safety Joint 75 T-Open 2138
 (D) Initial Shut-In 1117 Circ Sub N/C T-Pulled 0045 5/16
 (E) Second Initial Flow 169 Hourly Standby _____ T-Out 0242
 (F) Second Final Flow 166 Mileage 39.25 29.25 Comments _____
 (G) Final Shut-In 1117 Sampler _____
 (H) Final Hydrostatic 2230 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Sub Total 1504.25
 Total 1504.25
 MP/DST Disc't _____

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61363

Well Name & No. Kahn 6-11 Test No. 4 Date 5/16/2019
 Company Palomino Petroleum, Inc Elevation 3074 KB 3019 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Steunzel Rig WW #2
 Location: Sec. 11 Twp. 20S Rge. 34W Co. Scott State KS

Interval Tested 4514 4585 Zone Tested Pawnee, Ft Scott
 Anchor Length 71 Drill Pipe Run 4375 Mud Wt. 9.3
 Top Packer Depth 4509 Drill Collars Run 120 Vis 51
 Bottom Packer Depth 4514 Wt. Pipe Run 0 WL 5.8
 Total Depth 4585 Chlorides 5600 ppm System LCM 1"

Blow Description IF BOB@ 4 min
ISI 24" return.
FF BOB@ 4 1/2 min
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>475</u>	<u>MCW</u>			<u>97</u>	<u>3</u>
	<u>OIL spots</u>				

Rec Total 975 BHT 120 Gravity — API RW — @ 73.95 F Chlorides 38000 ppm
 (A) Initial Hydrostatic 23.12 Test 1150 T-On Location 1234
 (B) First Initial Flow 66 Jars 250 T-Started 1234
 (C) First Final Flow 251 Safety Joint 75 T-Open 1524
 (D) Initial Shut-In 1140 Circ Sub N/C T-Pulled 1724
 (E) Second Initial Flow 301 Hourly Standby _____ T-Out 1947
 (F) Second Final Flow 460 Mileage 31 RT x 2 58.50 Comments 1/2 Tool
 (G) Final Shut-In 1130 Sampler _____ 1000 5/18
 (H) Final Hydrostatic 2289 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1533.50
 Total 1533.50
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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



Home
(785) 798-3400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-5977

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

Well Name: #1 Koehn 6-11
 Well Id:
 Location: Sec. 11-20S-34W (Scott Co)
 License Number: 15-171-21200
 Spud Date: 5/9/2017
 Surface Coordinates: 1554' FNL & 1571' FEL
 Region: KANSAS
 Drilling Completed: 5/18/17

Bottom Hole
 Coordinates:
 Ground Elevation (ft): 3019 K.B. Elevation (ft): 3024
 Logged Interval (ft): 3700 To: TD Total Depth (ft): 4925
 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: Geologist
Address: 501 S. Franklin
Ness City, KS 67560

Misc. Info.

RIG: WW Drilling, Rig #2
MUD: MUDCO
LOGS: Haliburton
TESTER: Trilobite Testing



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

11 20s 34w Scott, Ks

4924 SE 84th St.
Newton Ks 67114

#1 Koehn 6-11

Job Ticket: 61360

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.05.13 @ 23:05:00

GENERAL INFORMATION:

Formation: LKC - H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:19:30

Time Test Ended: 05:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4167.00 ft (KB) To 4208.00 ft (KB) (TVD)

Total Depth: 4208.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3924.00 ft (KB)

3919.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8845

Outside

Press@RunDepth: 28.90 psig @ 4168.00 ft (KB)

Start Date: 2017.05.13

End Date: 2017.05.14

Capacity: 8000.00 psig

Last Calib.: 2017.05.14

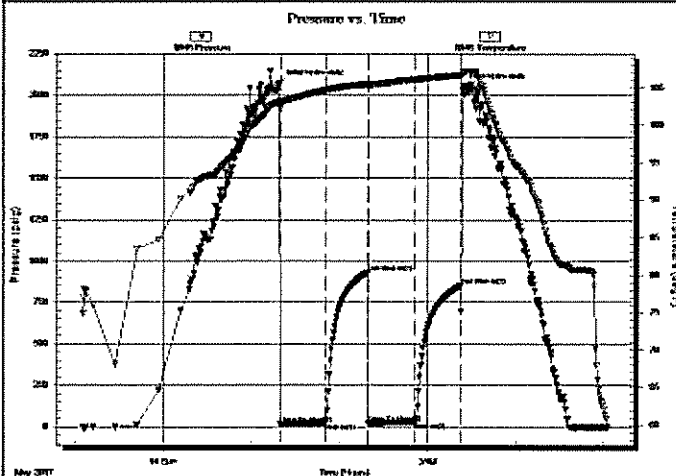
Start Time: 23:05:05

End Time: 05:02:59

Time On Btm: 2017.05.14 @ 01:19:15

Time Off Btm: 2017.05.14 @ 03:23:45

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.77	103.30	Initial Hydro-static
1	15.60	102.20	Open To Flow (1)
31	22.23	104.67	Shut-In(1)
60	931.99	105.48	End Shut-In(1)
60	23.59	104.99	Open To Flow (2)
92	28.90	106.07	Shut-In(2)
124	852.12	106.68	End Shut-In(2)
125	2052.37	106.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m (oil spots)	0.20

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

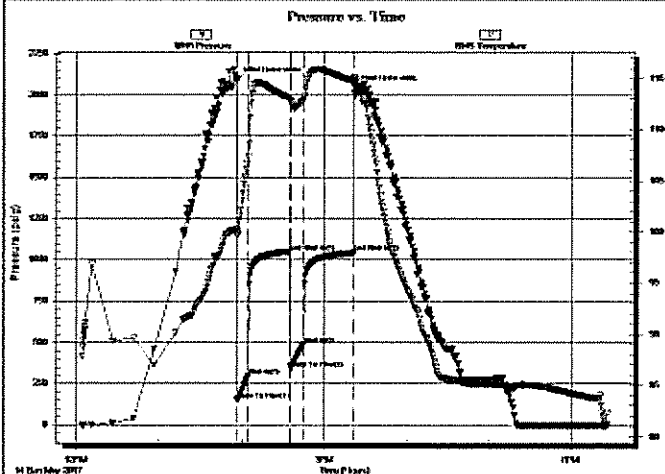
11 20s 34w Scott, Ks
Koehn 6-11
Job Ticket: 61361 DST#: 2
Test Start: 2017.05.14 @ 12:05:00

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 13:57:00 Tester: Bradley Walter
 Time Test Ended: 18:27:00 Unit No: 78
 Interval: 4201.00 ft (KB) To 4240.00 ft (KB) (TVD) Reference Elevations: 3924.00 ft (KB)
 Total Depth: 4240.00 ft (KB) (TVD) 3919.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8845 Outside
 Press@RunDepth: 486.93 psig @ 4202.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.14 End Date: 2017.05.14 Last Calib.: 2017.05.14
 Start Time: 12:05:05 End Time: 18:26:59 Time On Btm: 2017.05.14 @ 13:56:30
 Time Off Btm: 2017.05.14 @ 15:22:15

TEST COMMENT: IF: BOB @ 45 sec.
 IS: No return.
 FF: BOB @ 75 sec.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2090.36	100.14	Initial Hydro-static
1	150.59	99.64	Open To Flow (1)
9	295.41	107.27	Shut-In(1)
39	1049.94	113.06	End Shut-In(1)
40	341.12	112.83	Open To Flow (2)
49	486.93	112.95	Shut-In(2)
86	1044.52	114.69	End Shut-In(2)
86	2040.25	114.94	Final Hydro-static

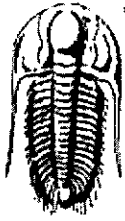
Recovery

Length (ft)	Description	Volume (bbl)
1010.00	mcw 5m 95w w/H2S <40ppm	13.07

* 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

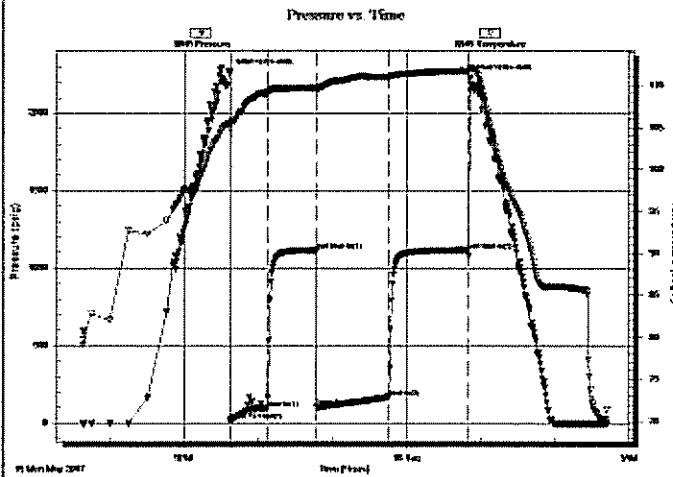
11 20s 34w Scott, Ks
Koehn 6-11
Job Ticket: 61362 DST#: 3
Test Start: 2017.05.15 @ 19:38:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:37:00
Time Test Ended: 02:42:15
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78
Interval: 4410.00 ft (KB) To 4520.00 ft (KB) (TVD)
Reference Elevations: 3924.00 ft (KB)
Total Depth: 4520.00 ft (KB) (TVD) 3919.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8845 Outside
Press@RunDepth: 165.50 psig @ 4411.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.05.15 End Date: 2017.05.16 Last Calib.: 2017.05.16
Start Time: 19:38:05 End Time: 02:42:14 Time On Btm: 2017.05.15 @ 21:36:45
Time Off Btm: 2017.05.16 @ 00:51:00

TEST COMMENT: IF: 7 1/2" blow.
IS: No return.
FF: BOB @ 50 min.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.66	105.51	Initial Hydro-static
1	19.76	104.72	Open To Flow (1)
31	98.15	109.24	Shut-In(1)
70	1117.37	109.78	End Shut-In(1)
71	109.02	109.36	Open To Flow (2)
129	165.50	111.05	Shut-In(2)
193	1117.36	111.76	End Shut-In(2)
195	2229.66	112.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	w cm 40w 60m (of spots)	2.90

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

11 20s 34w Scott, Ks

4924 SE 84th St.
Newton Ks 67114

Koehn 6-11

Job Ticket: 61363

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2017.05.16 @ 12:45:00

GENERAL INFORMATION:

Formation: **Pawnee, Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:20:15

Time Test Ended: 19:46:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4514.00 ft (KB) To 4585.00 ft (KB) (TVD)

Total Depth: 4585.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3924.00 ft (KB)

3919.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8845

Outside

Press@RunDepth: 459.56 psig @ 4515.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.05.16

End Date: 2017.05.16

Last Calib.: 2017.05.16

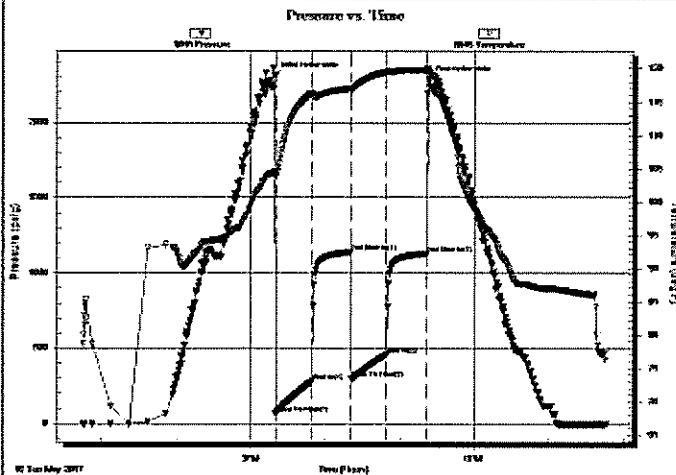
Start Time: 12:45:05

End Time: 19:46:44

Time On Btm: 2017.05.16 @ 15:20:00

Time Off Btm: 2017.05.16 @ 17:23:15

TEST COMMENT: IF: BOB @ 4 min.
IS: 1/4" return.
FF: BOB @ 4.5 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.53	104.50	Initial Hydro-static
1	66.32	103.66	Open To Flow (1)
30	280.74	116.34	Shut-In(1)
61	1139.83	117.02	End Shut-In(1)
61	300.79	116.56	Open To Flow (2)
90	459.56	119.49	Shut-In(2)
122	1129.81	119.73	End Shut-In(2)
124	2288.68	119.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
975.00	mcw 3m 97w (oil spots)	12.58

* Recovery from multiple tests

Gas Rates

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

Formation Tops

Sample Tops		LogTops	
Anhy.	2231 (+793)	Anhy.	2155 (+869)
Base Anhy.	2247 (+777)	Base Anhy.	2242 (+782)
Heebner	3919 (-895)	Heebner	3915 (-891)
Lansing	3963 (-939)	Lansing	3958 (-934)
Stark Sh	4284 (-1260)	Stark Sh	4280 (-1256)
BKC	4413 (-1389)	BKC	4412 (-1388)
Marmaton	4487 (-1463)	Marmaton	4439 (-1415)
Pawnee	4518 (-1484)	Pawnee	4514 (-1490)
Ft. Scott	4549 (-1525)	Ft. Scott	4542 (-1518)
Cher. Sh.	4560 (-1536)	Cher. Sh.	4554 (-1530)
Morrow Sh	4736 (-1712)	Morrow Sh	4734 (-1710)
Miss.	4816 (-1792)	Miss.	4818 (-1794)
RTD	4925 (-1901)	LTD	4920 (-1896)

Drilling Report


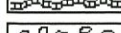
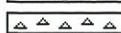
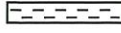

5/9/17 MIRU, Ran surface casing
 5/10/17 Drilling @ 548'
 5/11/17 Drilling @ 2475'
 5/12/17 Drilling @ 3285'
 5/13/17 Drilling @ 4012', DST #1
 5/14/17 Circulating to condition hole @ 4208', DST #2
 5/15/17 Drilling @ 4428', DST #3
 5/16/17 Drilling @ 4545', DST #4
 5/17/17 Drilling @ 4686'
 5/18/17 Ran electric logs, Plugged & Abandoned


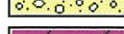




Comments


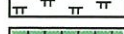
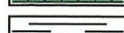
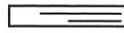


SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing @ 218'
PRODUCTION Casing: None


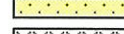
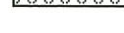
ROCK TYPES

LITHOLOGY


 Anhy
 Bent
 Brec
 Cht
 Clyst

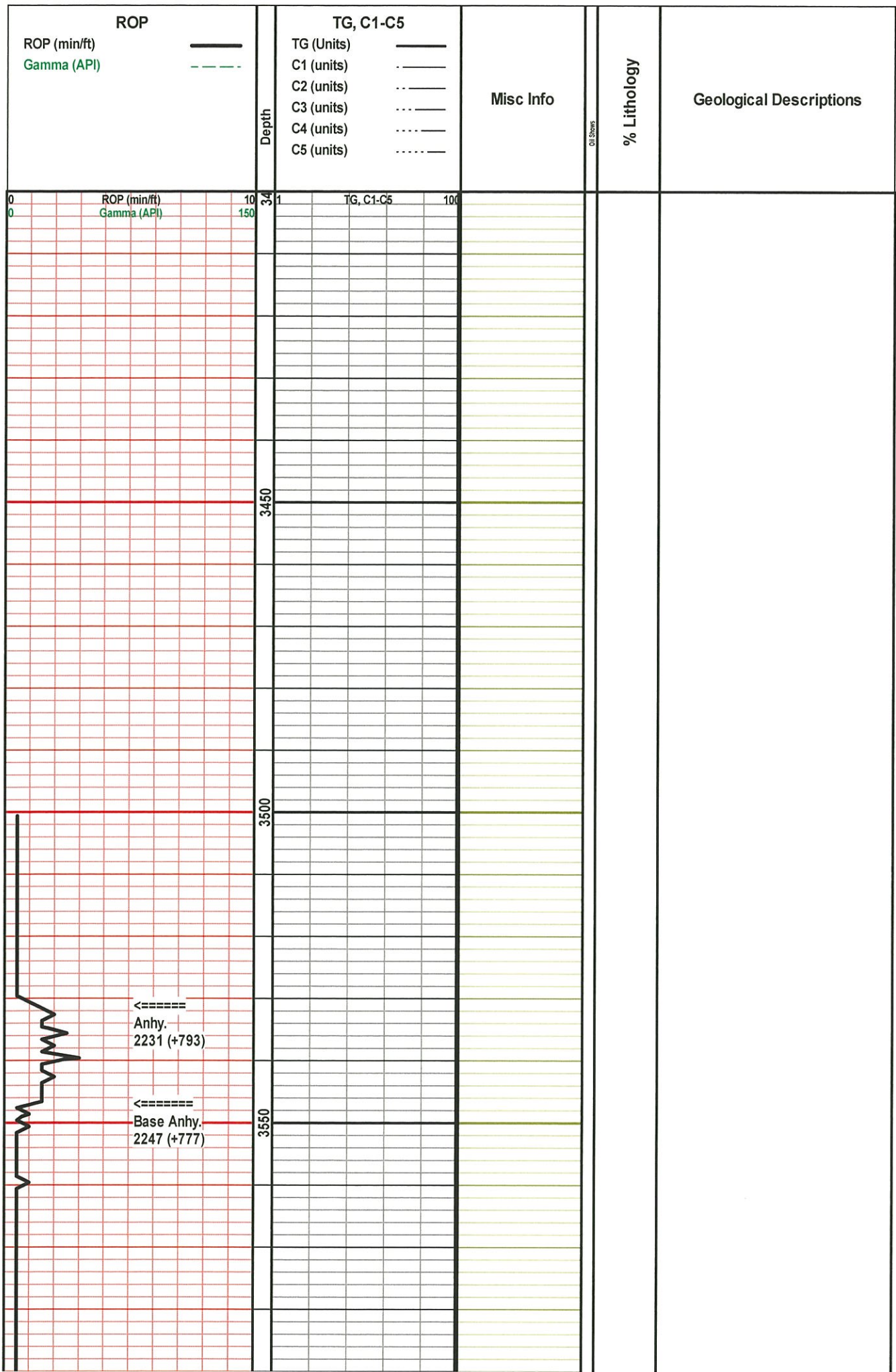
 Carb sh
 Congl
 Dol
 Gyp
 Igne
 Lmst

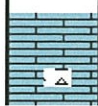
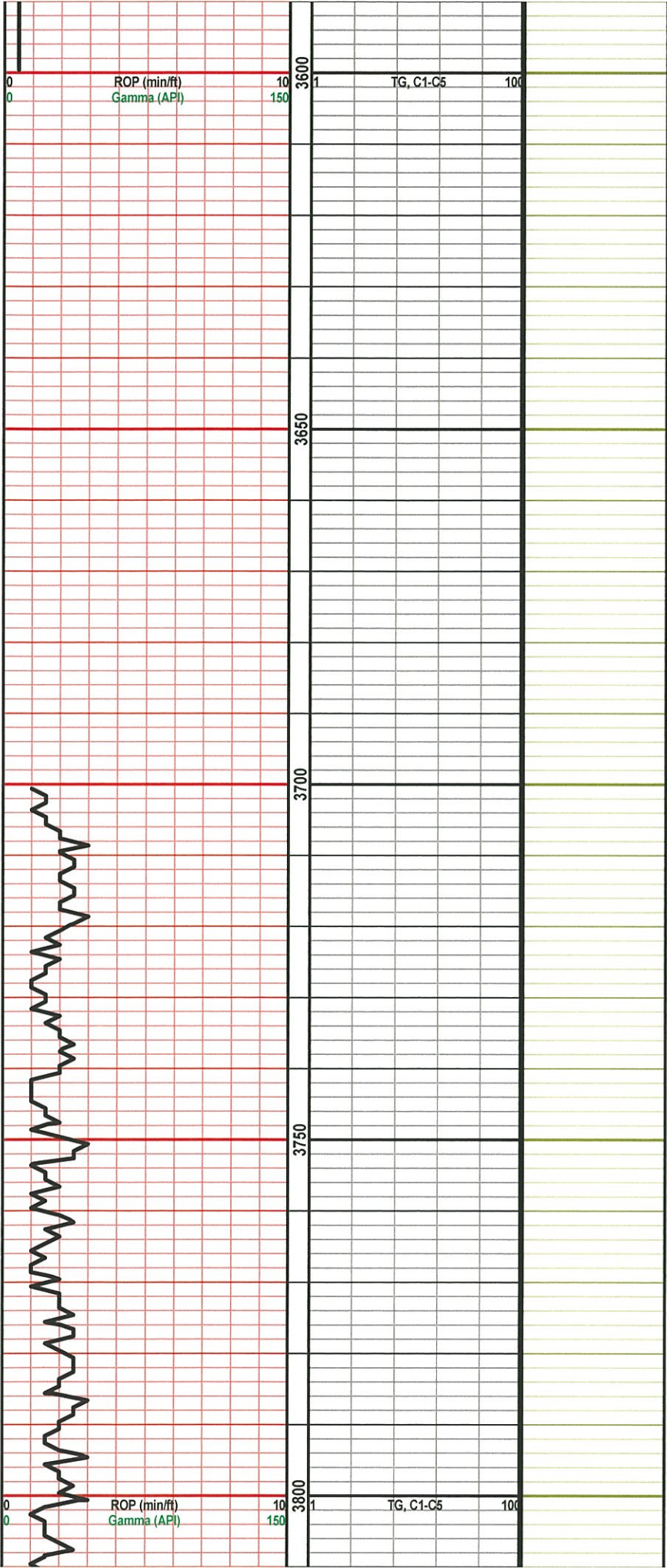
 Meta
 Mrlst
 Salt
 Shale
 Shcol
 Shgy

 Slstst
 Ss
 Till

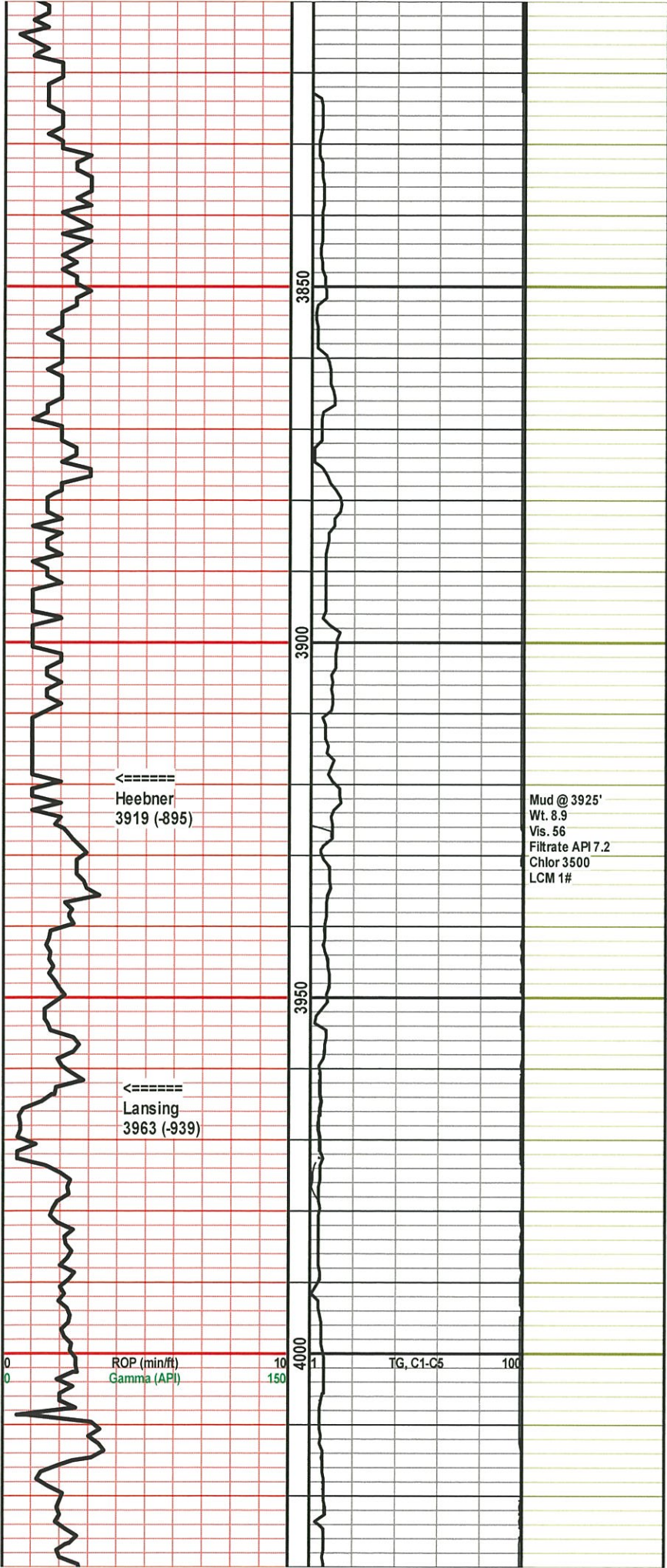
 Fair
 Slight
 Very slight

OIL SHOW
 Good





LS., crm-tn, fnxln, mod hd, chlky ip,



foss, nvp, scatt chrt, crm-opq gy, sli weath, ns

Ls., aa, scatt Sh., gy-brn, silty ip, ns

Ls., tn-lt gy, fnxln, mod hd, sli micr, foss ip, few pcs w vy pr intrxn por, ns, no odr, Sh., aa

Ls., crm-lt gy, fnxln, mod hd/sli fri ip, chlky ip, foss, some sec xln w fr dev calc xls, few pcs w pr intrxn por, ns, no odr

Ls., tn-lt gy-mtld brn ip, fnxln, sli fri, ool ip, sli chlky, foss, pr nvp, ns, scatt Sh., gy-brn

Sh., blk, carb

Ls., tn, fnxln, sli fri, ool ip, chlky, nvp, ns, abund Sh., gy, soft

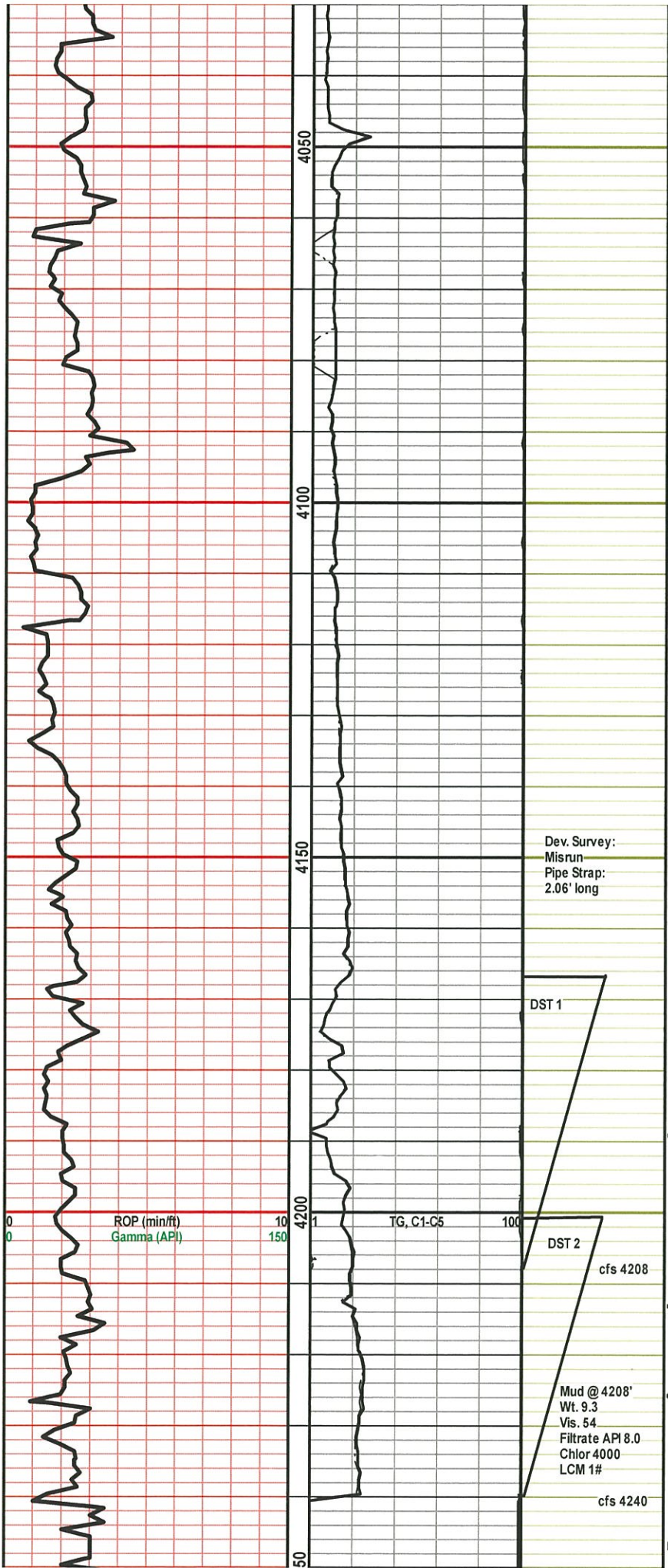
Ls., crm, fnxln, fri, chlky, some w pr intrxn por, scatt Chrt, crm-tn, shp, ns, no odr, Sh., aa

Ls., tn, fnxln, mod hd, ool, pr ooc por ns, no odr

Ls., crm-lt gy, fnxln, mod hd, brittle, tr sec xln, scatt Chrt, crm, shp, nvp, ns, scatt Sh., brn-gy

Sh., gy-brn,

Ls., tn, vfn-fnxln, mod hd, dns, ool ip, nvp, ns, no odr



Ls., aa, Sh., lt gy-brn

Ls., crm-tn, vfnxn, mod hd, brittle, chky ip, nvp, ns

Ls., aa, ns, scatt Sh., brn-gy

Ls., tn, fnxn, mod hd, ool, dk gy ooids, tr sec xln, few pcs w vy pr intrxn por, ns, no odr, Sh., aa

Ls., crm, vfnxn, hd, dns, nvp, ns, no odr, scatt Chrt, crm, shp

Ls., crm, fnxn, sli fri, ool, some w pr introol & occ fr ooc por, ns, no odr

Ls., aa, abund Sh., gy-rd-brn

Ls., crm, fn-vfnxn, mod hd, chky ip, couple pcs w pr iso vug por, ns, no odr

Sh., blk, carb

Ls., crm-lt gy, fnxn, mod hd-sli fri, chky ip, ool ip, scatt pcs w fr intrxn & introol por, FSFO, lt brn spot stn in por, strng odr, Sh., brn-gy

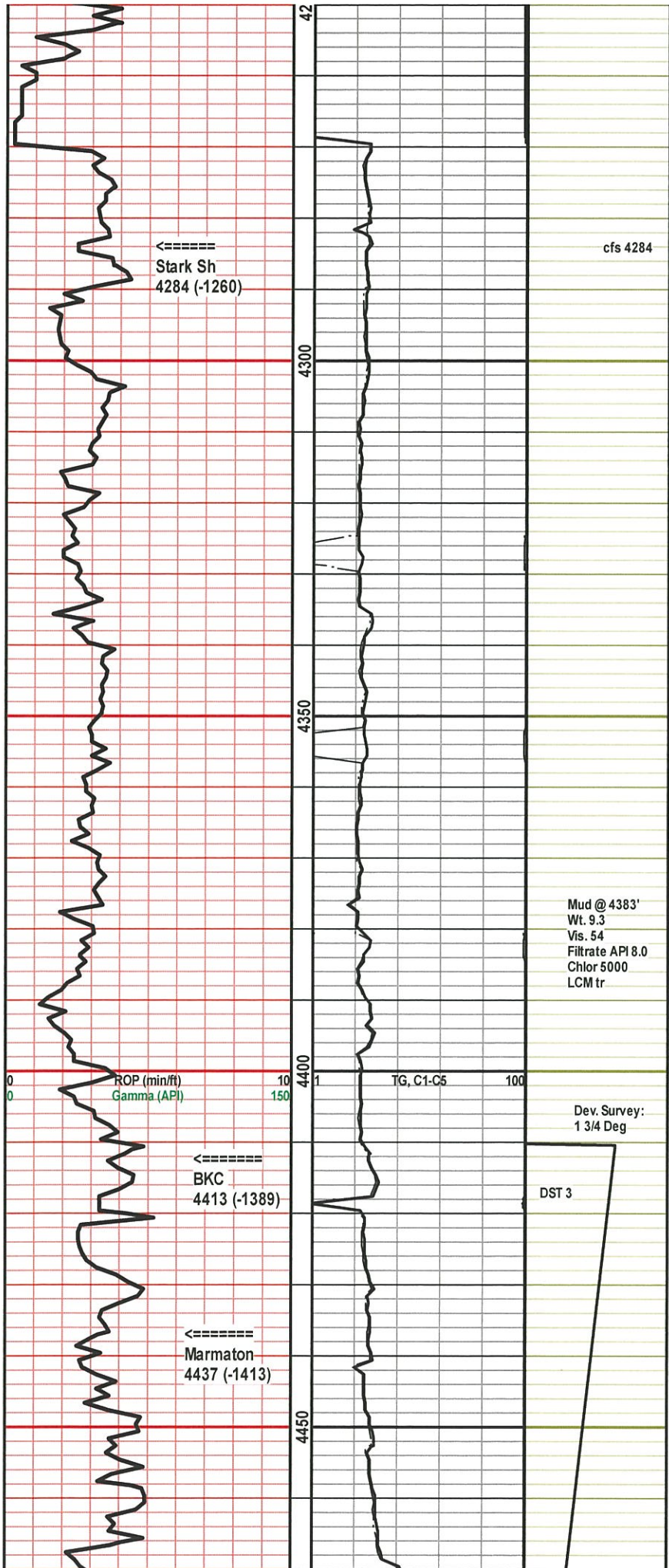
Sh., gy-brn-blk, carb in

Ls., crm, fnxn, sli fri-mod hd ip, ool ip, some sec xln w fr dev xls, fr intrxn, introol & small vug por, FSFO, abund spot stn, fr odr

Ls., crm, fnxn, mod hd-sli fri ip, ool ip, fr-gd introol & small vug por, GSFO, lt brn spot-sub sat stn, gd odr, scatt Sh., gy-brn

Sh., gy-brn, Ls., crm-tn, vfn-fnxln, mod hd, foss ip, dns, nvp, ns

Ls., crm-lt gy-gy, fnxn, mod hd-hd, ool, vy few pcs w vy pr iso intrxn & oot por. VSSFO. tr lt brn stn. vv wk



odr

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

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

Sh., blk, carb

Ls., tn, fnxln, mod hd, ool, fr ooc por,
 ns, no odr

Ls., tn-lt gy, vfn-fnxln, mod hd, tr sec
 xln, couple pcs w iso vugs, ns, no
 odr

Sh., blk, carb

Ls., tn-lt brn-lt gy, fnxln, mod hd, ool
 ip, some w pr-fr intrxln & ooc por,
 two pcs w VSSO, blk dead oil, tr blk
 stn, vy wk odr on brk

Ls., crm-lt gy, vfnxln, hd, dns, nvp,
 ns, scatt Chrt., lt gy, sli weath

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

Ls., crm-tn, fnxln, mod hd, chlky ip,
 nvp, scatt Chrt., lt gy, shp, ns, no odr

Ls., tn, fnxln, hd, ool ip, nvp, ns

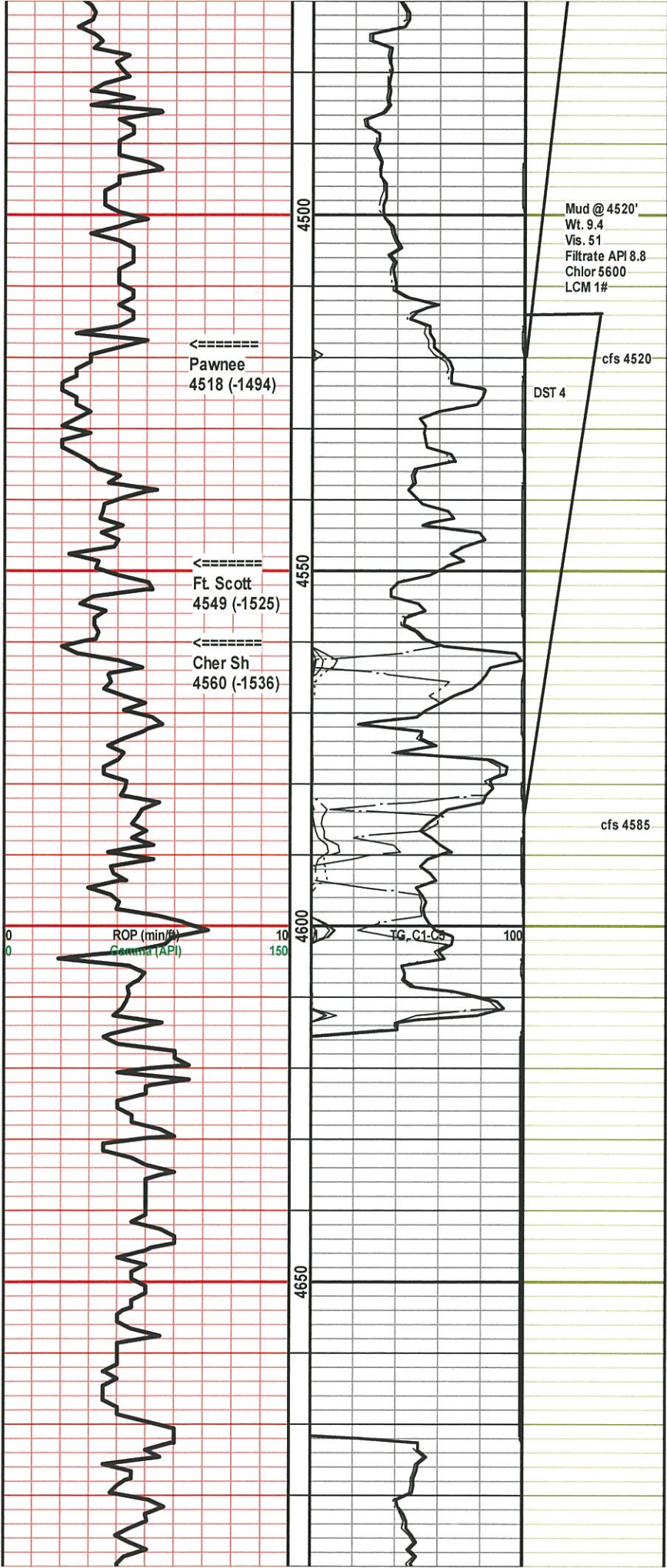
Sh., gy-brn

Ls., crm-lt gy, vfnxln, hd, brittle, dns,
 tr sec xln, nvp, ns, no odr

Ls., tn-lt gy, fnxln, mod hd, ool ip,
 scatt Chrt., crm-clr, weath, ns, no
 odr, Scatt Sh., lt gy-brn

Ls., crm-tn, fnxln, mod hd, chlky ip,
 ool ip, nvp, ns, Chrt & SH., aa

Ls., tn-lt gy, fnxln, sli fri, sli chlky,
 few pcs w iso vugs on edge, scatt



few pcs w sh sec Am on edge, scatt
 pcs w pr intrxn & ppt por, SSFO,
 abund brn stn, some edge stn, wk
 cup odr

Ls., crm-tn, fnxln, mod hd-hd, foss,
 nvp, ns, abund Sh., gy-brn

Ls., gy-crm, fnxln, mod hd, shly ip,
 few pcs w pr intrxn por, SSFO, rare
 lt brn stn, vy wk odr on brk, abund
 Sh., gy

Sh., blk, carb

Ls., crm, fnxln, sli fri, ool, chlky ip, scatt pcs w
 fr introol & vug por, couple pcs w gd por, FSFO,
 brn spot-sub sat stn, fr odr, Sh., gy-brn

Ls., tn-lt gy, fn-vfnxn, mod hd, couple pcs w pr
 ppt & small vug por, SSFO, num gas bub on
 brk, wk odr, scatt Chrt., lt gy, shp

Sh., blk, carb

Ls., crm-lt gy, fnxln, mod hd, ool ip, some w pr
 introol, intrxn & ppt por, SSFO, lt brn spot stn,
 fr odr, some gas bub on brk

Sh., blk, carb

Ls., crm-lt gy, fnxln, hd, ool ip, foss, most w
 nvp, few pcs w pr intrxn & introol por, VSSFO,
 rare lt brn stn, wk odr

Ls., crm-tn, fn-vfnxn, mod hd, brittle,
 chlky ip, nvp, ns, no odr, abund Sh.,
 gy-brn

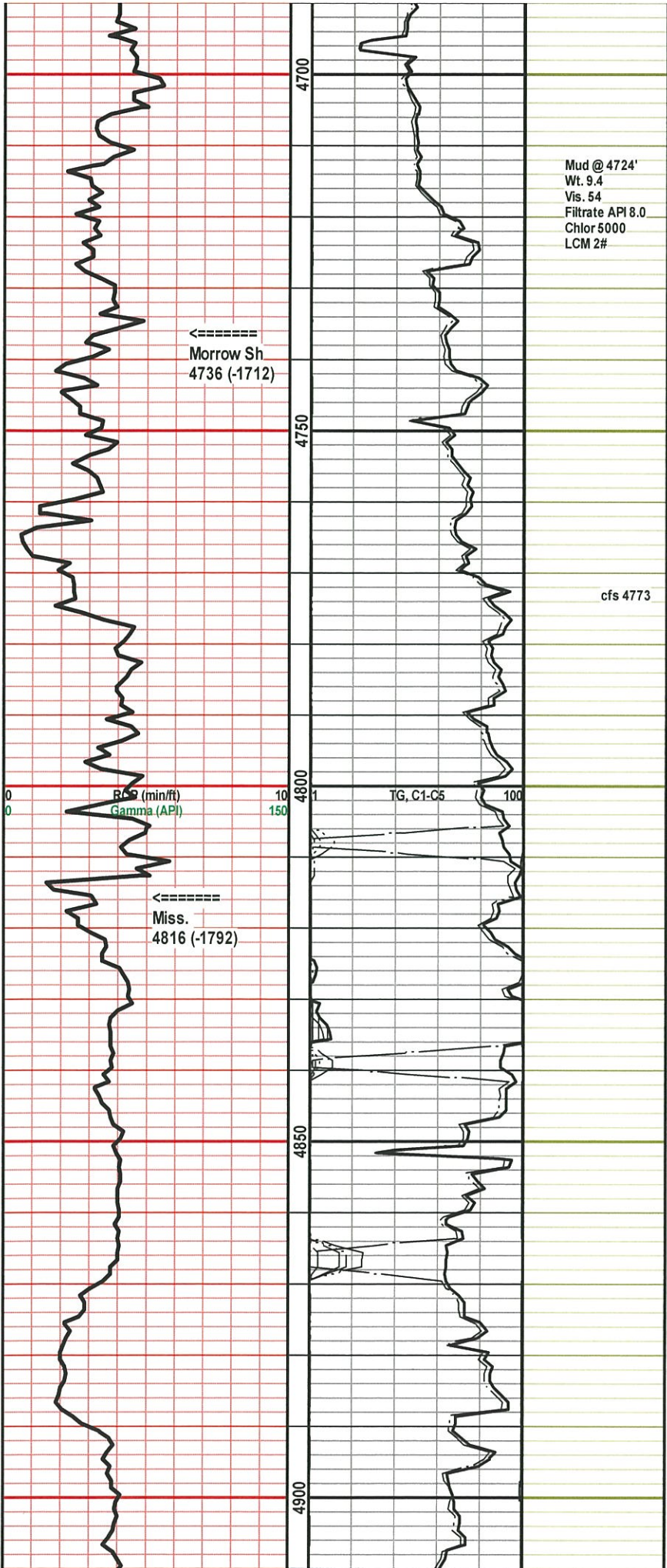
Sh., gy-blk, carb ip, Ls., crm,
 fn-vfnxn, hd, chlky ip, foss, nvp, ns,
 no odr

Ls., tn, fnxln, hd, micr ip, foss, nvp,
 ns, no odr

Ls., crm-tn, vfnxn, hd, dns, nvp, ns,
 scatt Sh., gy-dk gy

Ls., tn-lt gy, fnxln, mod hd-hd, sli
 chlky, nvp, ns, scatt Sh., aa, scatt
 Chrt., tn-brn, spic, weath

Ls., tn, fnxln, hd, dns, foss ip, nvp,
 ns, no odr, chrt., aa



Mud @ 4724'
 Wt. 9.4
 Vis. 54
 Filtrate API 8.0
 Chlor 5000
 LCM 2#

cfs 4773

