



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1265597
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1265597

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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	Ratliff-Methodist 1
Doc ID	1265597

Tops

Name	Top	Datum
Anhy.	1570	(+451)
Base Anhy.	1603	(+418)
Topeka	2991	(-970)
Heebner	3190	(-1169)
Toronto	3213	(-1192)
Lansing	3228	(-1207)
BKC	3430	(-1409)
Arbuckle	3470	(-1449)
LTD	3513	(-1492)



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 5/27/2015
 Invoice # 944

P.O.#:
 Due Date: 6/26/2015
 Division: Russell

RECEIVED
 JUN 01 2015

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:
 Palomino Petroleum Inc
 4924 SE 84th
 Newton Ks 67114

Reference:
 RATLIFF-METHODIST 1

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 628.31	No				
Common-Class A	120	\$ 1,712.63	Yes				
Calcium Chloride	6	\$ 287.12	Yes				
Pump Truck Mileage-Job to Nearest Camp	54	\$ 255.35	No				
POZ Mix-Standard	30	\$ 180.55	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	54	\$ 162.49	No				
Bulk Truck Matl-Material Service Charge	159	\$ 136.70	No				
Premium Gel (Bentonite)	3	\$ 41.99	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,405.15
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (85.13)

SubTotal for Taxable Items:	\$ 2,166.74
SubTotal for Non-Taxable Items:	\$ 1,153.28
Total:	\$ 3,320.02
Tax:	\$ 133.25

6.15% Rooks County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,453.27
Applied Payments:
Balance Due: \$ 3,453.27

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 944

Date	5-27-15	Sec.	15	Twp.	07	Range	20	County	Rooks	State	KS	On Location		Finish	7:30 PM	
Location								Damar N to 24 HWY 3 N 2 3/4 E Nint								
Lease	Ratliff-Methodist				Well No.	#1				Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Contractor	WV #6								Charge To Palamino Petroleum							
Type Job	Surface								Street							
Hole Size	12' 1/4				T.D.	217'				City						
Csg.	8 5/8				Depth	217				State						
Tbg. Size					Depth					The above was done to satisfaction and supervision of owner agent or contractor.						
Tool					Depth					Cement Amount Ordered 150 #1/20 3% cc 2% Gel						
Cement Left in Csg.					Shoe Joint					Meas Line Displace 12 3/4						
EQUIPMENT												Common 120				
Pumptrk	18	No.	Cementer Helper		Cody						Poz. Mix 30					
Bulktrk	9	No.	Driver		Billy						Gel. 3					
Bulktrk	PU	No.	Driver		PU						Calcium 6					
JOB SERVICES & REMARKS												Hulls				
Remarks:												Salt				
Rat Hole												Flowseal				
Mouse Hole												Kol-Seal				
Centralizers												Mud CLR 48				
Baskets												CFL-117 or CD110 CAF 38				
D/V or Port Collar												Sand				
												Handling 159				
												Mileage				
Cement												FLOAT EQUIPMENT				
												Guide Shoe				
												Centralizer				
												Baskets				
												AFU Inserts				
												Float Shoe				
												Latch Down				
												Pumptrk Charge Surface				
												Mileage Surface 54				
												Tax				
												Discount				
X Signature Mcal Bsa												Total Charge				

Circulated!!
Quality Oilwell
Cementing



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 6/3/2015
Invoice # 1421
P.O.#:
Due Date: 7/3/2015
Division: Russell

RECEIVED
 JUN 08 2015

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:
 Palomino Petroleum Inc
 4924 SE 84th
 Newton Ks 67114

Reference:
 RATLIFF-METHODIST 1

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 606.13	Yes				
Common-Class A	174	\$ 2,395.67	Yes				
POZ Mix-Standard	116	\$ 673.48	Yes				
Bulk Truck Matl-Material Service Charge	300	\$ 248.82	Yes				
Pump Truck Mileage-Job to Nearest Camp	48	\$ 218.96	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	48	\$ 139.34	Yes				
Premium Gel (Bentonite)	10	\$ 135.03	Yes				
Flo Seal	72	\$ 119.44	Yes				
Dry Hole Plug	1	\$ 46.45	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 4,583.33
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (114.58)
<hr/>		
	SubTotal for Taxable Items:	\$ 4,468.75
	SubTotal for Non-Taxable Items:	\$ -
<hr/>		
	Total:	\$ 4,468.75
	Tax:	\$ 274.83
	Amount Due:	\$ 4,743.58
	Applied Payments:	
	Balance Due:	\$ 4,743.58

6.15% Rooks County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

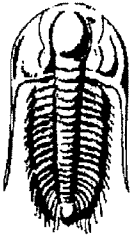
Federal Tax I.D.# 20-2886107

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

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

No. 1421

Date	6-3-15	Sec.	15	Twp.	7	Range	20	County	Rooks	State	KS	On Location		Finish	9:00 PM
Lease								Location		Damar N to 24 Hwy, 3N to J Rd, 2 3/4 E					
Ratliff-Methodist								Well No. 1		Owner Nn2					
Contractor								To Quality Oilwell Cementing, Inc.							
WW 6								You are hereby requested to rent cementing equipment and furnish							
Type Job								cementer and helper to assist owner or contractor to do work as listed.							
Plug								Charge To Palomina petroleum							
Hole Size								T.D.							
Csg.								Depth							
Tbg. Size								Depth							
Tool								Depth							
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace							
EQUIPMENT								Common 174							
Pumptrk 17 No. Cementer								Poz. Mix 116							
Helper Lonnie								Gel. 10							
Bulktrk 21 No. Driver								Calcium							
Driver Chad								Hulls							
Bulktrk PU No. Driver								Salt							
Driver Travis								Flowseal 72#							
JOB SERVICES & REMARKS								Kol-Seal							
Remarks:								Mud CLR 48							
Rat Hole								CFL-117 or CD110 CAF 38							
Mouse Hole								Sand							
Centralizers								Handling 300							
Baskets								Mileage							
D/V or Port Collar								FLOAT EQUIPMENT							
50 sx at 3452								Guide Shoe							
50 sx at 1590								Centralizer							
100 sx at 920								Baskets							
50 sx at 270								AFU Inserts							
10 sx at 40 with plug								Float Shoe							
30 sx Rat								Latch Down							
Signature								Pumptrk Charge plug							
Mail Bgse								Mileage 54 / 48							
								Tax							
								Discount							
								Total Charge							



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62341

DST#: 1

ATTN: Ryan Seib

Test Start: 2015.05.30 @ 13:35:00

GENERAL INFORMATION:

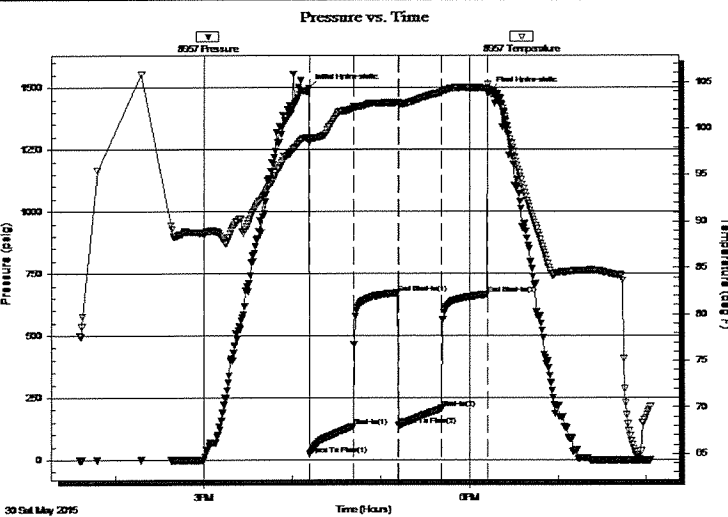
Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:11:45 Tester: Brett Dickinson
 Time Test Ended: 20:03:15 Unit No: 81
 Interval: **3120.00 ft (KB) To 3180.00 ft (KB) (TVD)** Reference Elevations: 2021.00 ft (KB)
 Total Depth: 3180.00 ft (KB) (TVD) 2016.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 205.87 psig @ 3177.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.30 End Date: 2015.05.30 Last Calib.: 2015.05.30
 Start Time: 13:35:05 End Time: 20:03:14 Time On Btm: 2015.05.30 @ 16:11:00
 Time Off Btm: 2015.05.30 @ 18:13:45

TEST COMMENT: IF-BOB in 17min
 ISI-No blow
 FF-6in blow
 FSI-No blow



PRESSURE SUMMARY

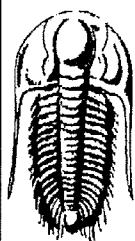
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1498.43	99.06	Initial Hydro-static
1	22.06	98.48	Open To Flow (1)
31	135.26	102.12	Shut-In(1)
61	672.13	102.76	End Shut-In(1)
61	137.53	102.52	Open To Flow (2)
90	205.87	103.88	Shut-In(2)
121	665.37	104.31	End Shut-In(2)
123	1486.59	103.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	SMCW 80%W 20%M	1.71
170.00	OS WCM 35%W 65%M	2.38

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62341

DST#: 1

ATTN: Ryan Seib

Test Start: 2015.05.30 @ 13:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil APt:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	SMCW 80%W 20%M	1.712
170.00	OS WCM 35%W 65%M	2.385

Total Length: 370.00 ft

Total Volume: 4.097 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8957

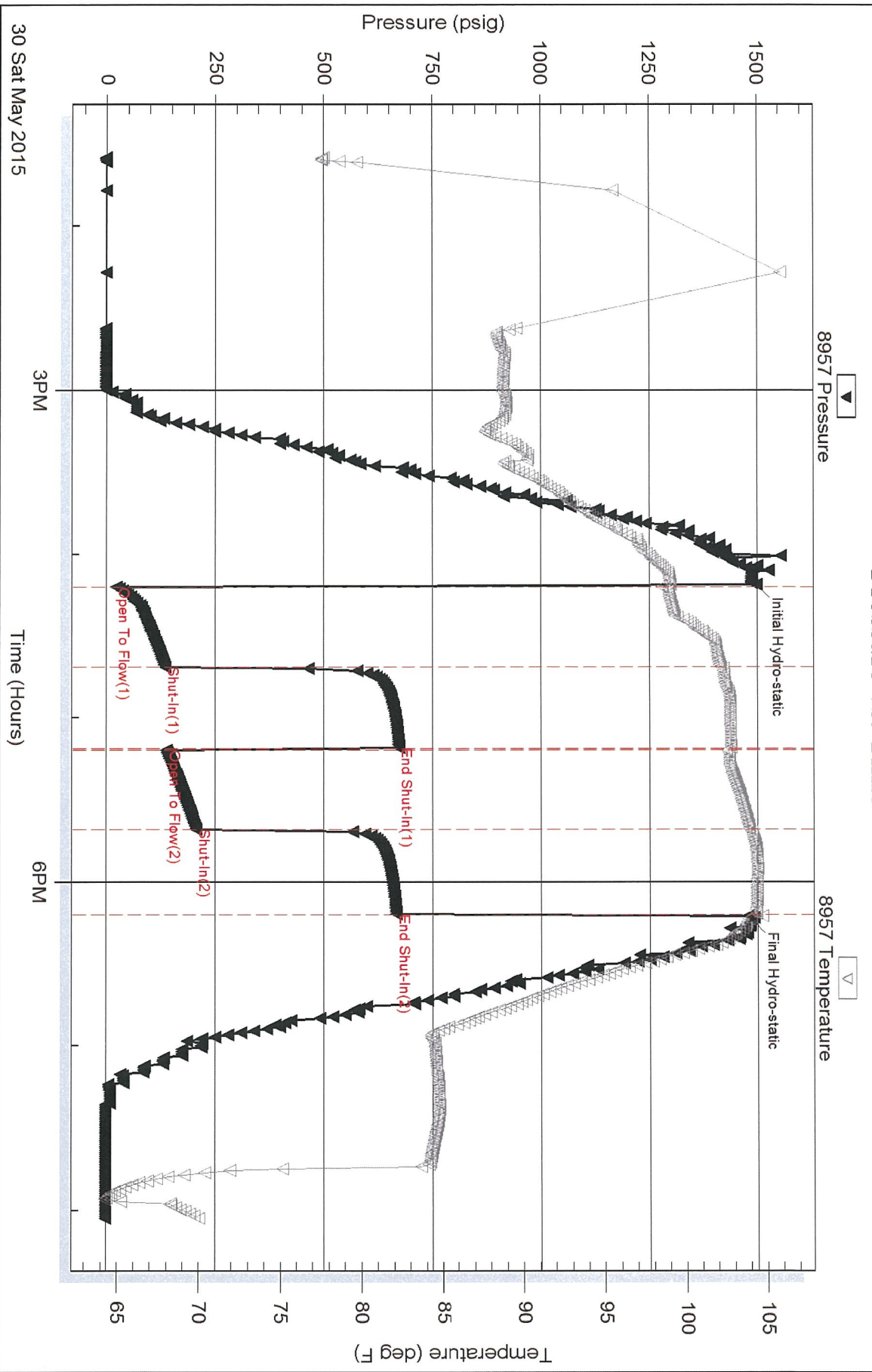
Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 1

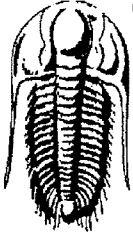
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62341

Printed: 2015.05.30 @ 22:48:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62342

DST#: 2

ATTN: Ryan Seib

Test Start: 2015.05.31 @ 04:45:00

GENERAL INFORMATION:

Formation: **Toronto-KC"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:55:30

Time Test Ended: 10:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: **3188.00 ft (KB) To 3250.00 ft (KB) (TVD)**

Reference Elevations: 2021.00 ft (KB)

Total Depth: 3250.00 ft (KB) (TVD)

2016.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 26.43 psig @ 3247.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.31

End Date:

2015.05.31

Last Calib.: 2015.05.31

Start Time: 04:45:05

End Time:

10:19:59

Time On Btm: 2015.05.31 @ 06:54:45

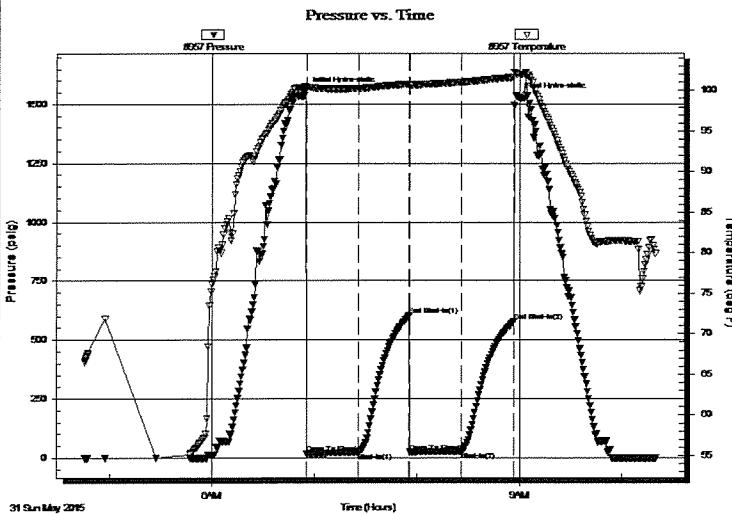
Time Off Btm: 2015.05.31 @ 08:59:15

TEST COMMENT: IF-1/4in blow

ISI-No blow

FF-No blow

FSL-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1553.77	100.53	Initial Hydro-static
1	18.13	100.37	Open To Flow (1)
31	22.01	100.28	Shut-In(1)
61	602.41	100.81	End Shut-In(1)
62	23.21	100.59	Open To Flow (2)
91	26.43	101.05	Shut-In(2)
122	577.50	101.62	End Shut-In(2)
125	1529.23	102.05	Final Hydro-static

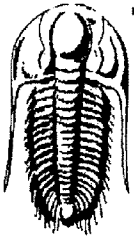
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62342

DST#: 2

ATTN: Ryan Seib

Test Start: 2015.05.31 @ 04:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 1100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

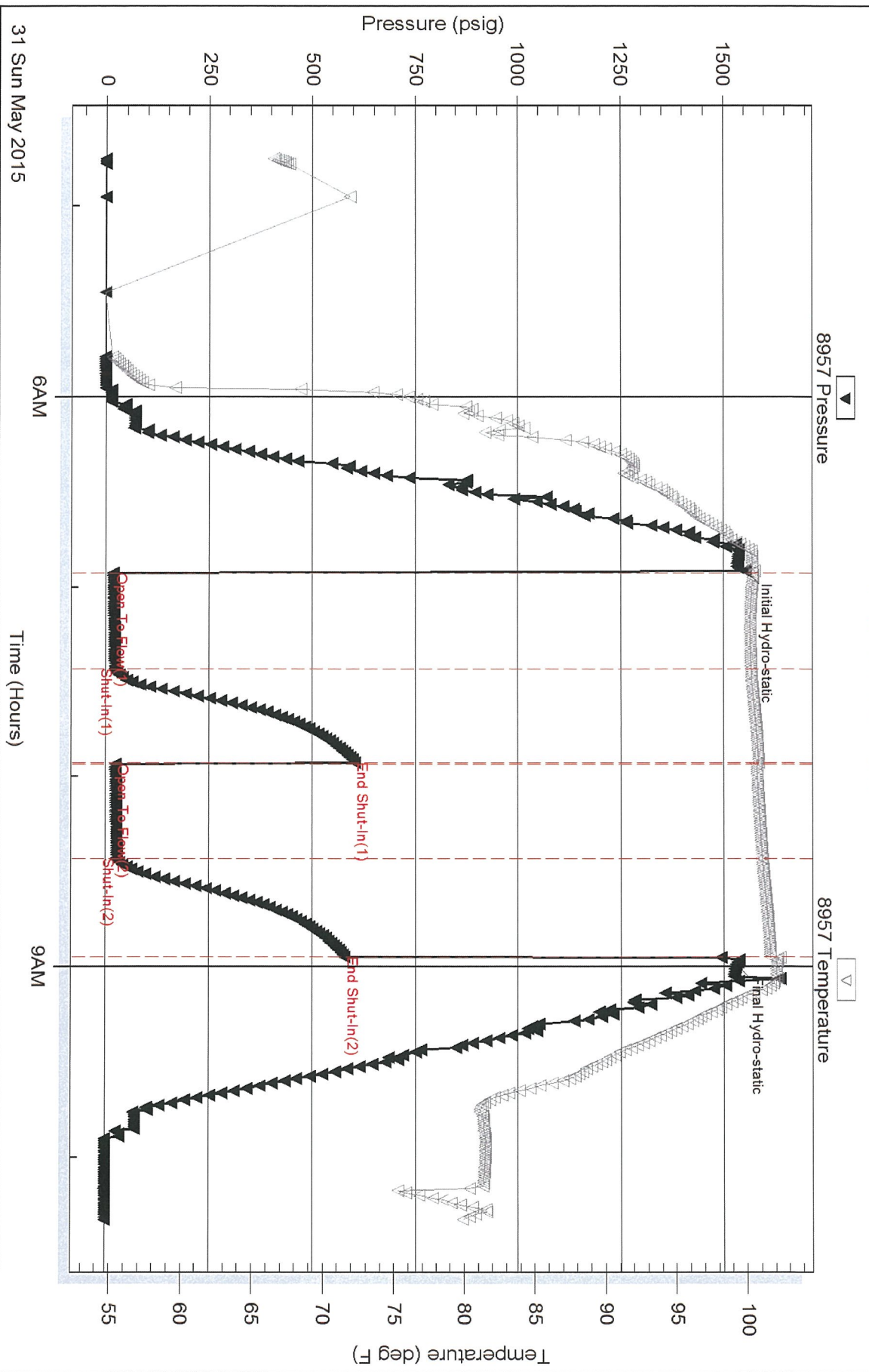
Serial #:

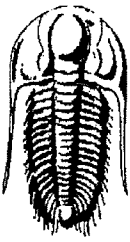
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62343

DST#: 3

ATTN: Ryan Seib

Test Start: 2015.05.31 @ 22:05:00

GENERAL INFORMATION:

Formation: **KC"B-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:12:15

Time Test Ended: 04:18:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: **3247.00 ft (KB) To 3330.00 ft (KB) (TVD)**

Total Depth: 3330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2021.00 ft (KB)

2016.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 252.63 psig @ 3327.00 ft (KB)

Start Date: 2015.05.31

End Date:

2015.06.01

Start Time: 22:05:05

End Time:

04:18:14

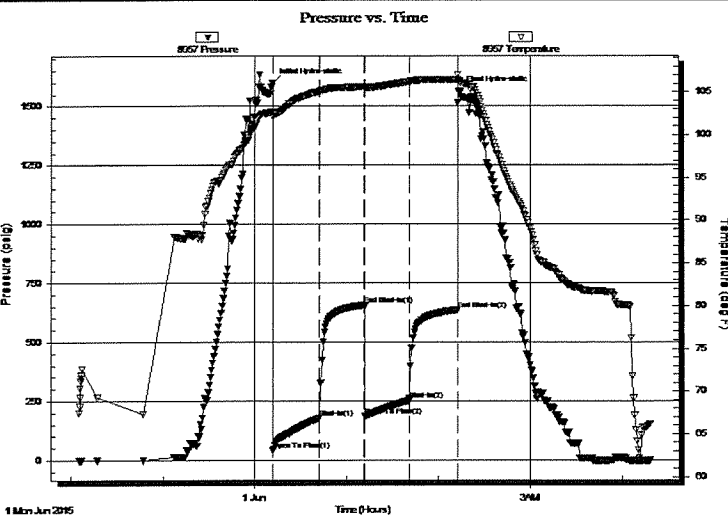
Capacity: 8000.00 psig

Last Calib.: 2015.06.01

Time On Btm: 2015.06.01 @ 00:11:45

Time Off Btm: 2015.06.01 @ 02:13:30

TEST COMMENT: IF-BOB in 7min
ISI-No blow
FFBOB in 14min
FSI-1/4in blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.92	102.68	Initial Hydro-static
1	41.37	102.21	Open To Flow (1)
31	178.72	105.10	Shut-In(1)
60	656.55	105.61	End Shut-In(1)
61	184.93	105.42	Open To Flow (2)
89	252.63	106.22	Shut-In(2)
121	635.58	106.44	End Shut-In(2)
122	1565.67	106.26	Final Hydro-static

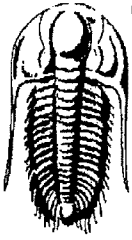
Recovery

Length (ft)	Description	Volume (bbl)
300.00	OS MCW 60%W 40%M	3.12
180.00	VSOWCM 5%O 40%W 55%M	2.52
40.00	SGO 10%G 90%O	0.56
0.00	40ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62343

DST#: 3

ATTN: Ryan Seib

Test Start: 2015.05.31 @ 22:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	OS MCW 60%W 40%M	3.115
180.00	VSOWCM 5%O 40%W 55%M	2.525
40.00	SGO 10%G 90%O	0.561
0.00	40ft GIP	0.000

Total Length: 520.00 ft

Total Volume: 6.201 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

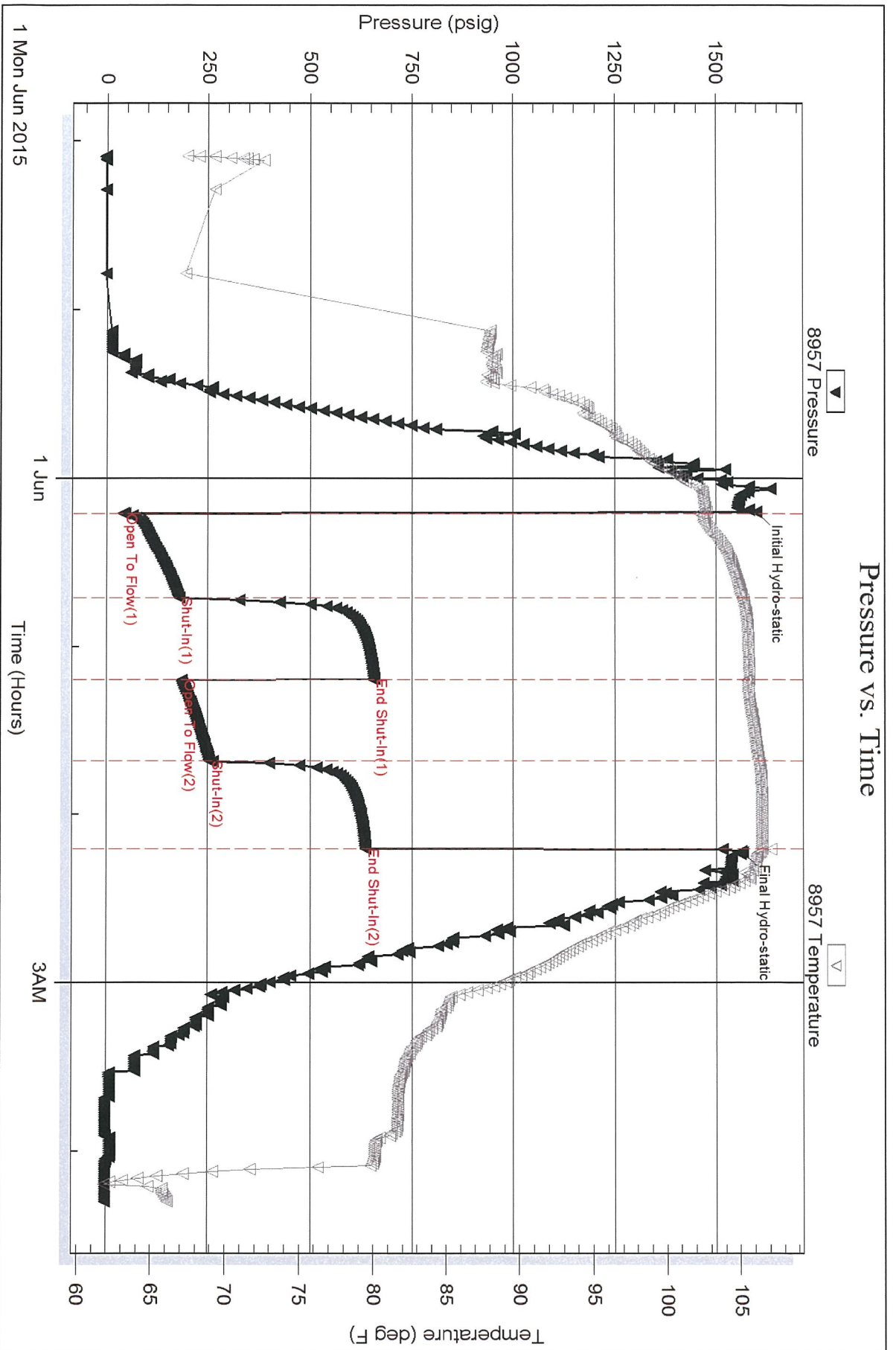
Serial #: 8957

Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

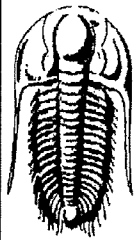
DST Test Number: 3



Trilobe Testing, Inc

Ref. No: 62343

Printed: 2015.06.01 @ 06:39:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

ATTN: Ryan Seib

Job Ticket: 62344

DST#: 4

Test Start: 2015.06.01 @ 17:15:00

GENERAL INFORMATION:

Formation: **KC "I-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:29:00

Time Test Ended: 22:59:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: **3364.00 ft (KB) To 3440.00 ft (KB) (TVD)**

Total Depth: 3440.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2021.00 ft (KB)

2016.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 23.31 psig @ 3437.00 ft (KB)

Start Date: 2015.06.01

End Date:

2015.06.01

Start Time: 17:15:05

End Time:

22:59:14

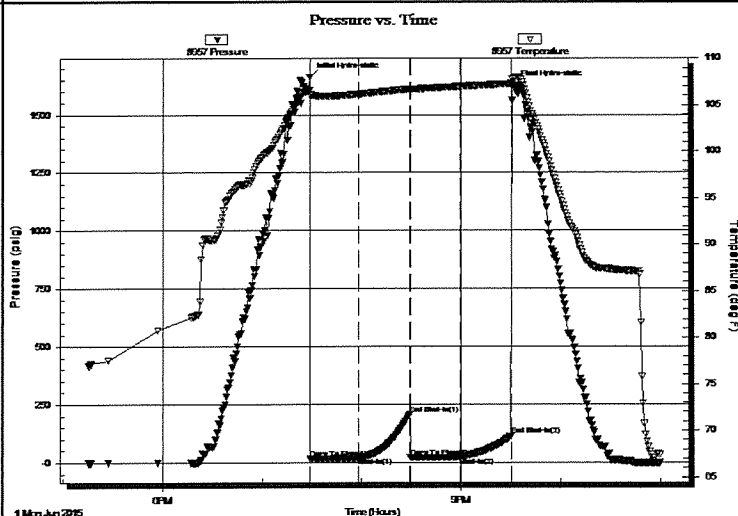
Capacity: 8000.00 psig

Last Calib.: 2015.06.01

Time On Btm: 2015.06.01 @ 19:28:30

Time Off Btm: 2015.06.01 @ 21:32:00

TEST COMMENT: IF-1/4in blow
ISI-No blow
FF-No blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.73	106.55	Initial Hydro-static
1	17.16	105.98	Open To Flow (1)
30	19.63	106.18	Shut-In(1)
61	207.55	106.69	End Shut-In(1)
61	20.33	106.56	Open To Flow (2)
91	23.31	107.00	Shut-In(2)
122	114.70	107.27	End Shut-In(2)
124	1625.73	107.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62344

DST#: 4

ATTN: Ryan Seib

Test Start: 2015.06.01 @ 17:15:00

GENERAL INFORMATION:

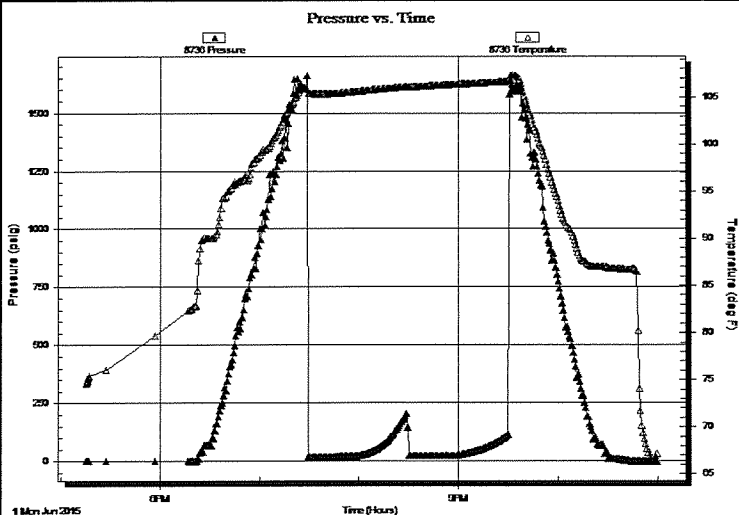
Formation: **KC "I-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:29:00
 Time Test Ended: 22:59:15
 Interval: **3364.00 ft (KB) To 3440.00 ft (KB) (TVD)**
 Total Depth: 3440.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 81
 Reference Elevations: 2021.00 ft (KB)
 2016.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press@RunDepth: psig @ 3437.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.01 End Date: 2015.06.01 Last Calib.: 2015.06.01
 Start Time: 17:15:05 End Time: 22:59:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-1/4in blow
 ISI-No blow
 FF-No blow
 FSI-No blow



PRESSURE SUMMARY

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

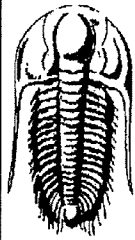
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62344

DST#: 4

ATTN: Ryan Seib

Test Start: 2015.06.01 @ 17:15:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8957

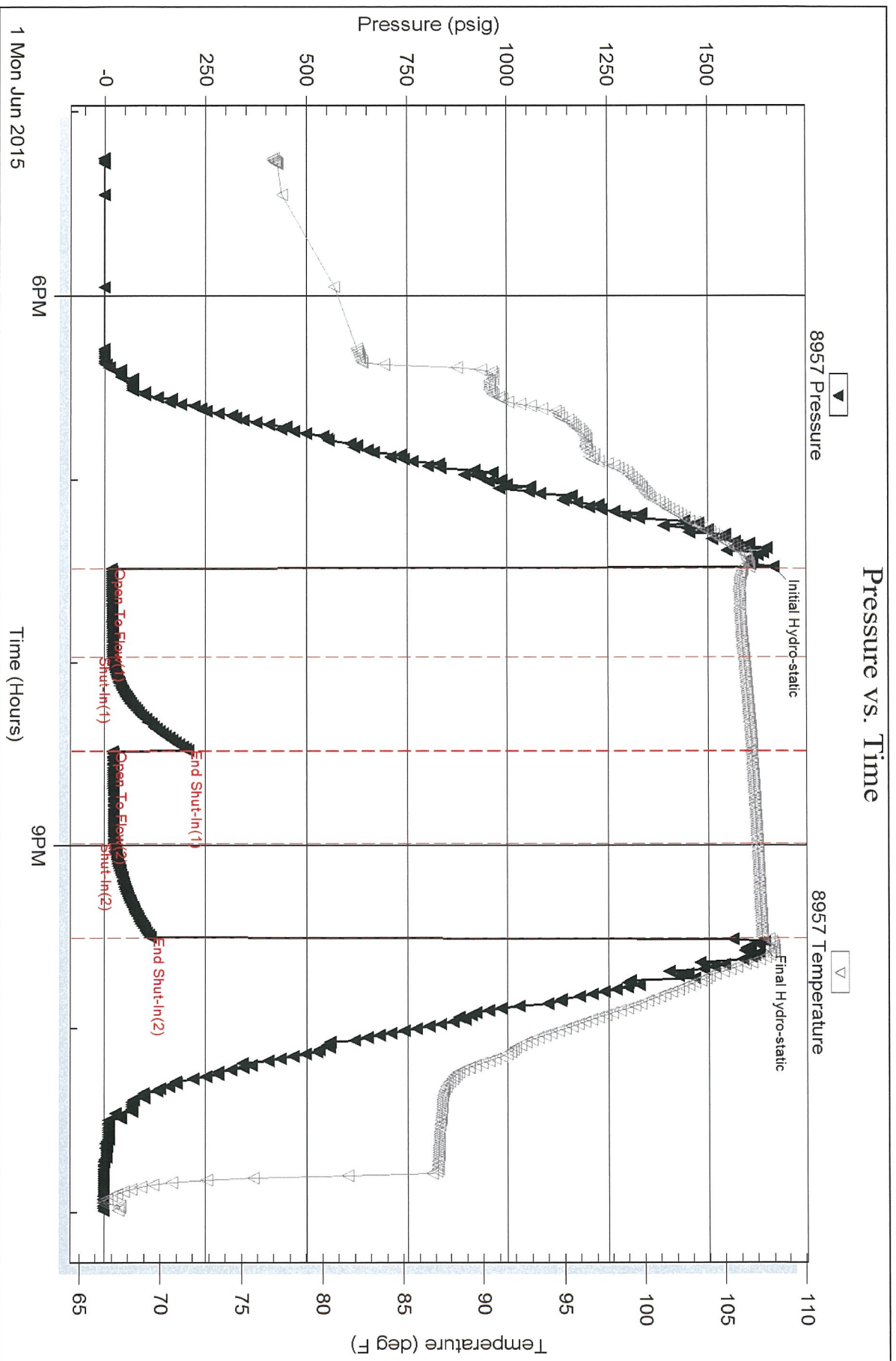
Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 4

Pressure vs. Time



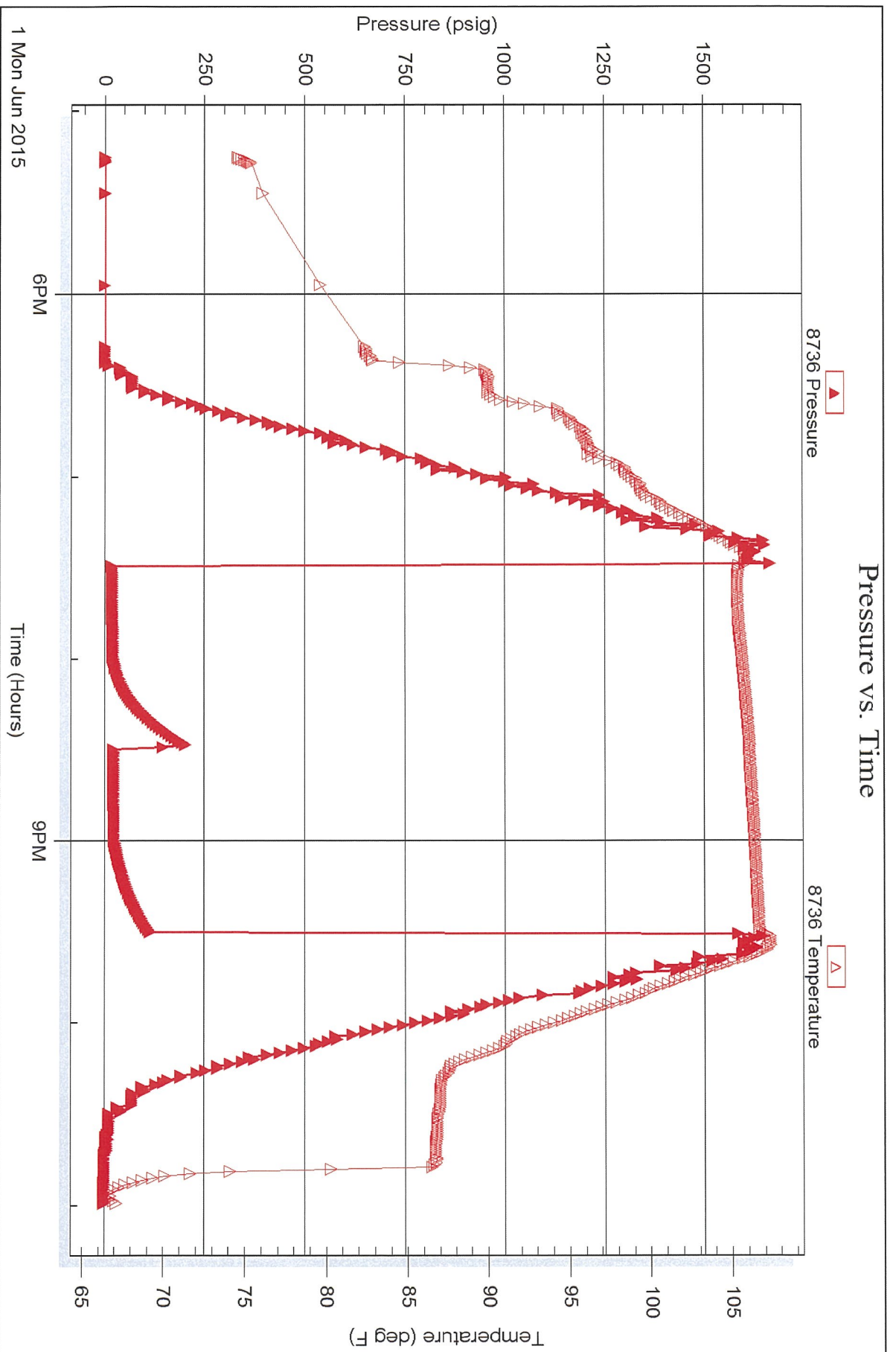
Serial #: 8736

Inside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

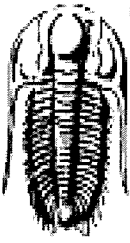
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 62344

Printed: 2015.06.02 @ 01:02:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7s-20w Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62345

DST#: 5

ATTN: Ryan Seib

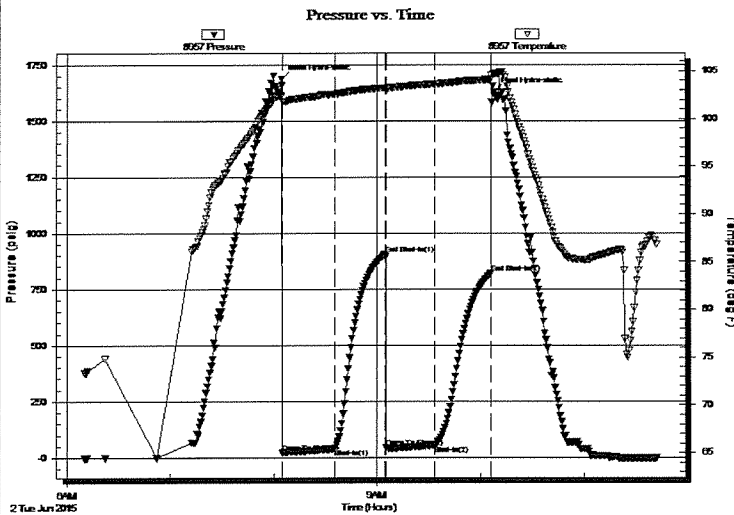
Test Start: 2015.06.02 @ 06:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:04:45 Tester: Brett Dickinson
 Time Test Ended: 11:41:30 Unit No: 81
 Interval: **3364.00 ft (KB) To 3481.00 ft (KB) (TVD)** Reference Elevations: 2021.00 ft (KB)
 Total Depth: 3481.00 ft (KB) (TVD) 2016.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8957 Outside
 Press@RunDepth: 52.47 psig @ 3478.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.02 End Date: 2015.06.02 Last Calib.: 2015.06.02
 Start Time: 06:10:05 End Time: 11:41:29 Time On Btm: 2015.06.02 @ 08:04:15
 Time Off Btm: 2015.06.02 @ 10:07:45

TEST COMMENT: IF-1 1/2in blow
 ISI-No blow
 FF-very weak surface blow
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.33	102.38	Initial Hydro-static
1	20.95	101.78	Open To Flow (1)
31	41.20	102.61	Shut-In(1)
61	905.99	103.24	End Shut-In(1)
61	43.94	103.09	Open To Flow (2)
89	52.47	103.62	Shut-In(2)
122	821.16	104.12	End Shut-In(2)
124	1625.48	104.73	Final Hydro-static

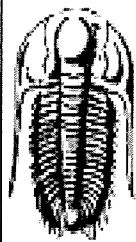
Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 20%O 80%M	0.27
15.00	SGO 5%G 95%O	0.07

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, Inc.

15-7s-20w Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62345

DST#: 5

ATTN: Ryan Seib

Test Start: 2015.06.02 @ 06:10:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCM 20%O 80%M	0.270
15.00	SGO 5%G 95%O	0.074

Total Length: 70.00 ft Total Volume: 0.344 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

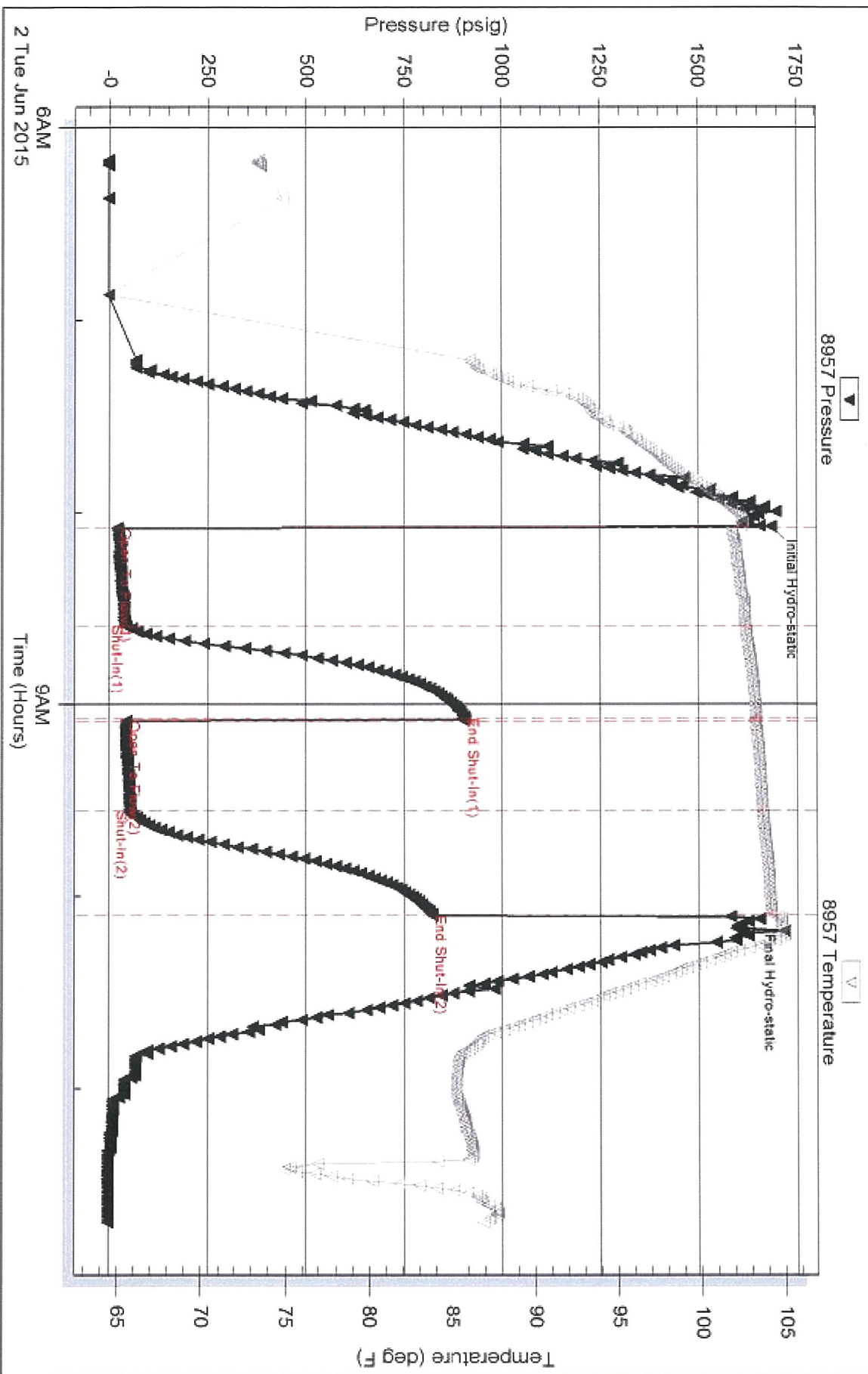
Serial #: 8957

Outside Palomino Petroleum, Inc.

Ratlift-Methodist #1

DST Test Number: 5

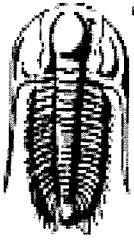
Pressure vs. Time



Tribotek Testing, Inc

Ref. No: 62345

Printed: 2015 06 02 @ 13:11:40



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62346

DST#: 6

ATTN: Ryan Seib

Test Start: 2015.06.02 @ 17:05:00

GENERAL INFORMATION:

Formation: **Arb.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:44:00

Time Test Ended: 22:30:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: 3480.00 ft (KB) To 3489.00 ft (KB) (TVD)

Total Depth: 3489.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2021.00 ft (KB)

2016.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 41.42 psig @ 3486.00 ft (KB)

Start Date: 2015.06.02

End Date:

2015.06.02

Capacity: 8000.00 psig

Last Calib.: 2015.06.02

Start Time: 17:05:05

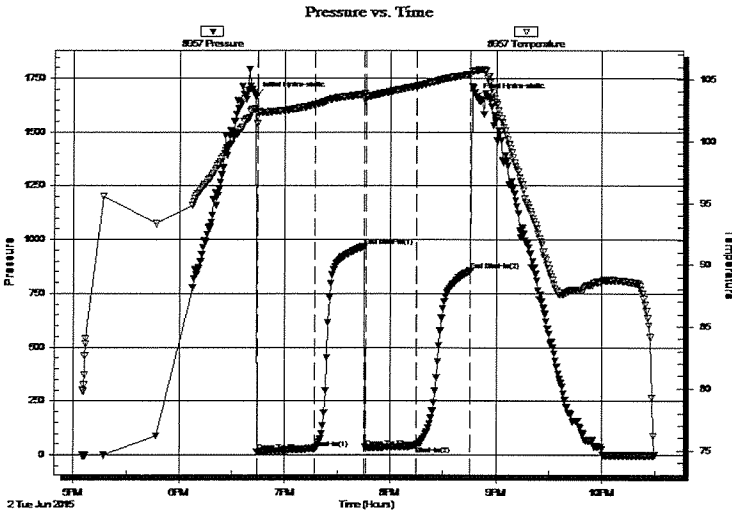
End Time:

22:30:14

Time On Btm: 2015.06.02 @ 18:43:15

Time Off Btm: 2015.06.02 @ 20:48:45

TEST COMMENT: IF-1/4in blow
IS-No blow
FF-1/4in blow
FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.09	102.60	Initial Hydro-static
1	15.07	101.43	Open To Flow (1)
34	28.95	102.96	Shut-In(1)
62	969.84	103.82	End Shut-In(1)
63	31.51	103.62	Open To Flow (2)
92	41.42	104.46	Shut-In(2)
123	856.77	105.41	End Shut-In(2)
126	1663.08	105.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 10%O 90%M	0.10
40.00	SGO 5%G 95%O	0.20

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62346

DST#: 6

ATTN: Ryan Seib

Test Start: 2015.06.02 @ 17:05:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1100.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 10%O 90%M	0.098
40.00	SGO 5%G 95%O	0.197

Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

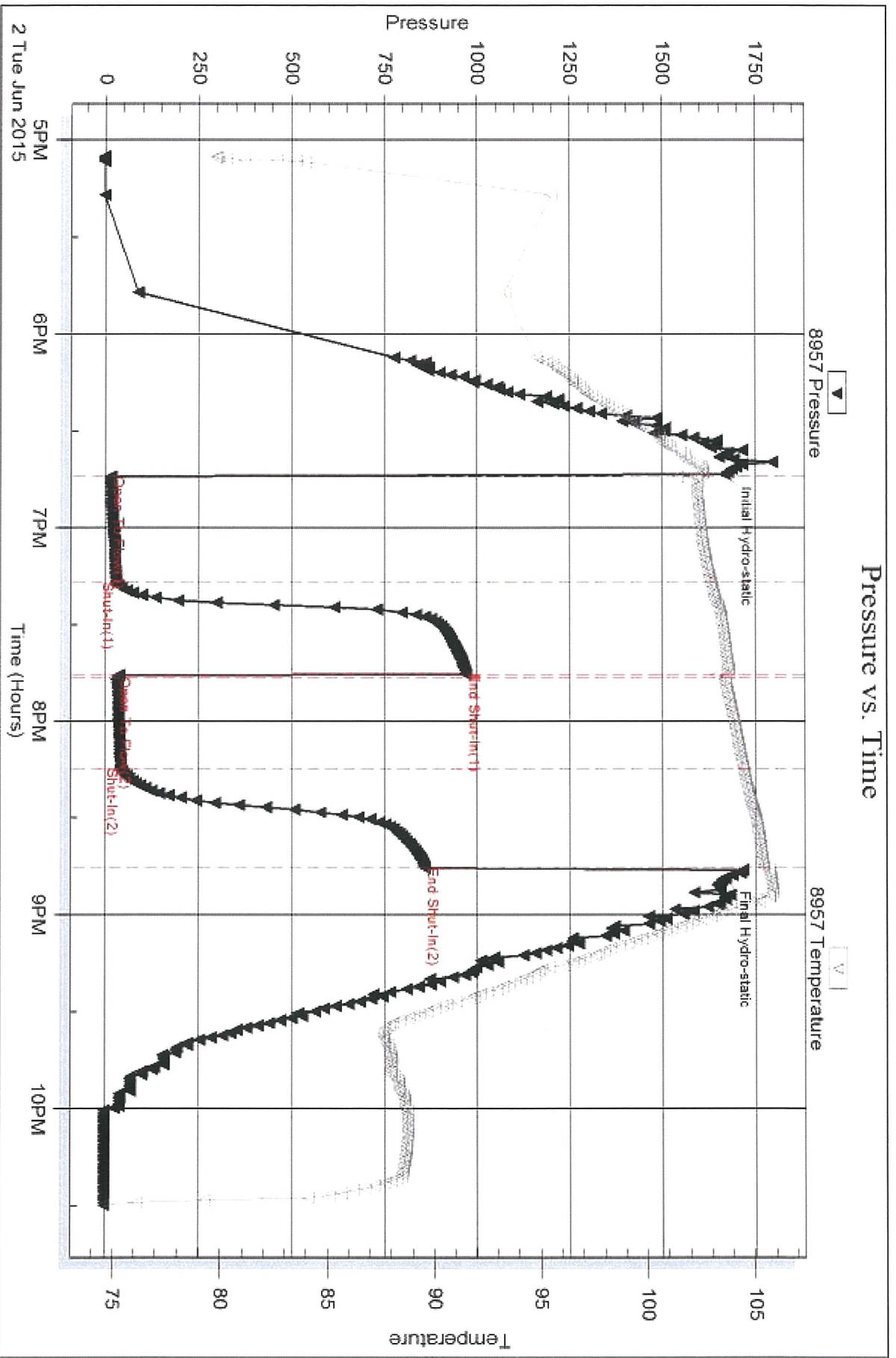
Serial #: 8957

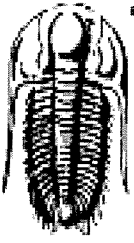
Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 6





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62347

DST#: 7

ATTN: Ryan Seib

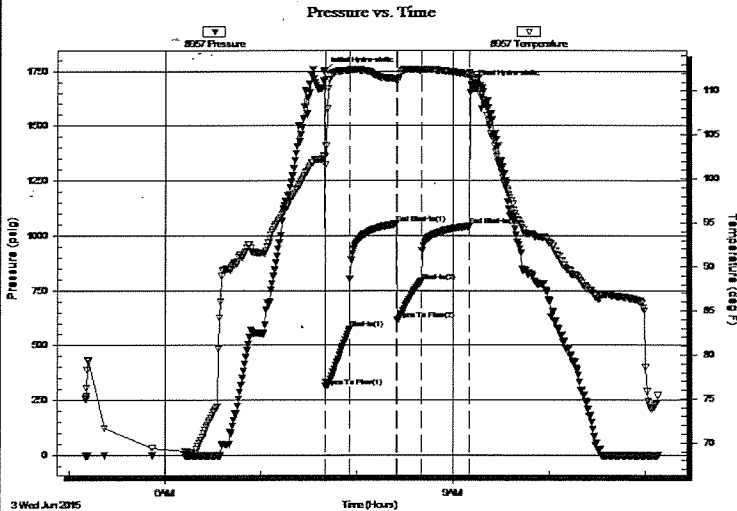
Test Start: 2015.06.03 @ 05:10:00

GENERAL INFORMATION:

Formation: **Arb.**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:40:15
 Tester: Brett Dickinson
 Time Test Ended: 11:07:45
 Unit No: 81
 Interval: **3488.00 ft (KB) To 3515.00 ft (KB) (TVD)**
 Reference Elevations: 2021.00 ft (KB)
 Total Depth: 3515.00 ft (KB) (TVD)
 2016.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8957 Outside
 Press@RunDepth: 791.99 psig @ 3512.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.03 End Date: 2015.06.03 Last Calib.: 2015.06.03
 Start Time: 05:10:05 End Time: 11:07:44 Time On Btm: 2015.06.03 @ 07:39:30
 Time Off Btm: 2015.06.03 @ 09:11:15

TEST COMMENT: IF-BOB in 1min
 ISI-No blow
 FF-BOB in 1min
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.44	102.66	Initial Hydro-static
1	312.49	101.56	Open To Flow (1)
16	573.19	112.30	Shut-In(1)
46	1054.13	111.34	End Shut-In(1)
46	616.94	111.21	Open To Flow (2)
61	791.99	112.39	Shut-In(2)
91	1043.92	111.89	End Shut-In(2)
92	1688.60	111.78	Final Hydro-static

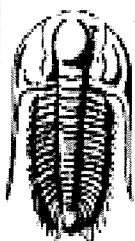
Recovery

Length (ft)	Description	Volume (bbl)
1500.00	Water	19.95
240.00	MCW 30%M 70%W	3.37
0.00	120ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62347

DST#: 7

ATTN: Ryan Seib

Test Start: 2015.06.03 @ 05:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1500.00	Water	19.948
240.00	MCW 30%M 70%W	3.367
0.00	120ft GIP	0.000

Total Length: 1740.00 ft

Total Volume: 23.315 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

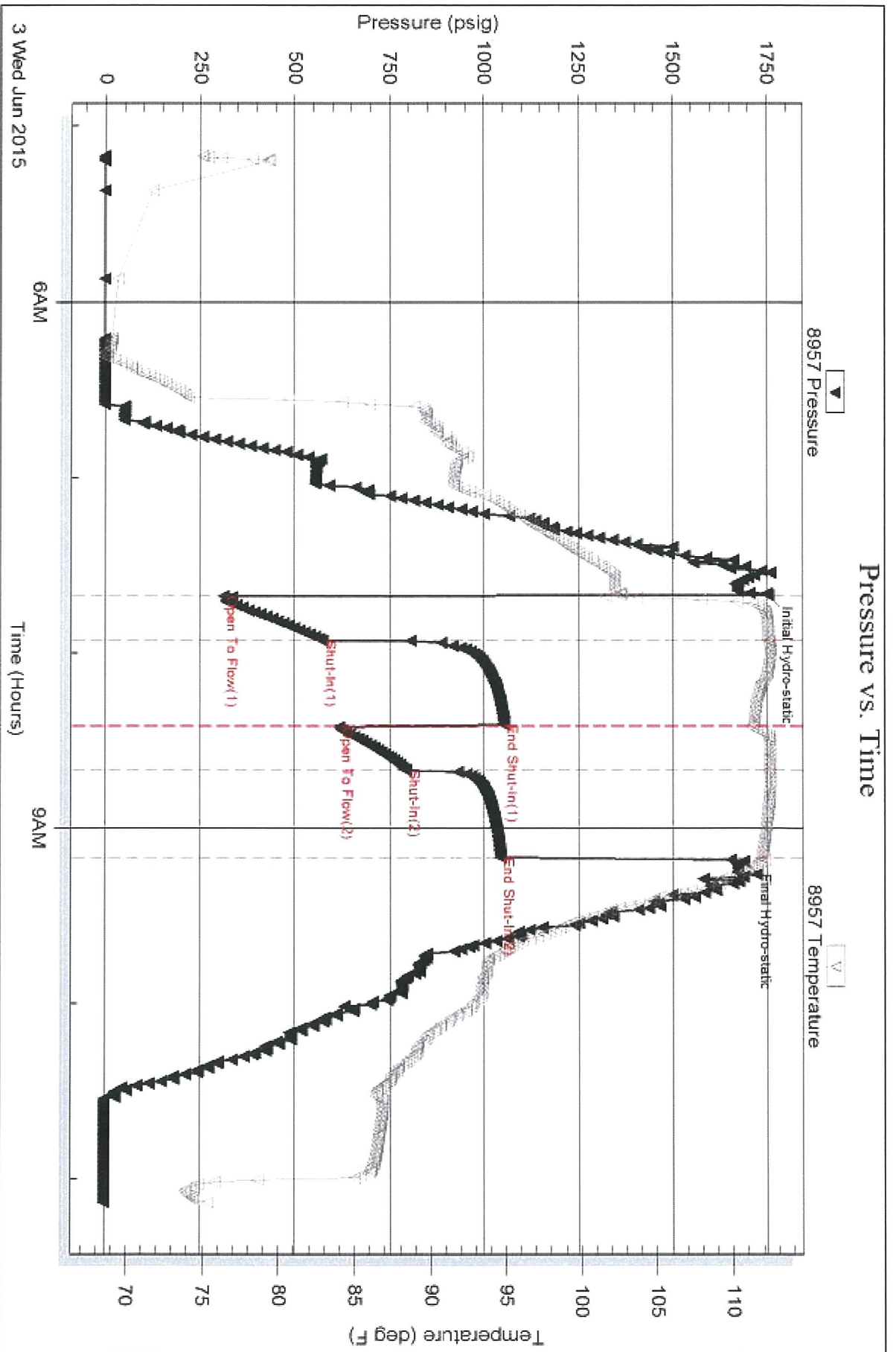
Serial #: 8957

Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 7



Tricoble Testing, Inc

Ref. No: 62347

Printed: 2015.06.03 @ 13:09:34