



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1301909
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: _____

1301909

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	J & B Wilkinson 1
Doc ID	1301909

Tops

Name	Top	Datum
Anhy.	2332	(+709)
Base Anhy.	2339	(+692)
Heebner	3909	(-868)
Toronto	3909	(-882)
Lansing	3953	(-912)
Muncie Creek	4143	(-1102)
Stark	4243	(-1202)
Hushpuckney	4297	(-1256)
BKC	4345	(-1304)
Marmaton	4409	(-1368)
Pawnee	4476	(-1435)
Ft. Scott	4529	(-1488)
Cherokee Sh.	4555	(-1514)
Miss.	4806	(-1765)
LTD	4900	(-1859)

RECEIVED

Date: 3/5/2016
 Invoice # 1327

MAR 09 2016



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

P.O.#:
 Due Date: 4/4/2016
 Division: *Russell*

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 JB WILKINSON 1

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 585.47	No				
Common-Class A	160	\$ 2,127.82	Yes				
Calcium Chloride	8	\$ 356.73	Yes				
Pump Truck Mileage-Job to Nearest Camp	57	\$ 251.16	No				
POZ Mix-Standard	40	\$ 224.32	Yes				
Bulk Truck Matl-Material Service Charge	214	\$ 171.44	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	57	\$ 159.83	No				
Premium Gel (Bentonite)	6	\$ 78.26	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 3,955.02
	<i>Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (98.88)
<hr/>		
	SubTotal for Taxable Items:	\$ 2,717.44
	SubTotal for Non-Taxable Items:	\$ 1,138.70
<hr/>		
	Total:	\$ 3,856.14
	Tax:	\$ 230.98
<hr/>		
	Amount Due:	\$ 4,087.12

8.50% Scott County Sales Tax

Thank You For Your Business!

Applied Payments:
Balance Due: \$ 4,087.12

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.

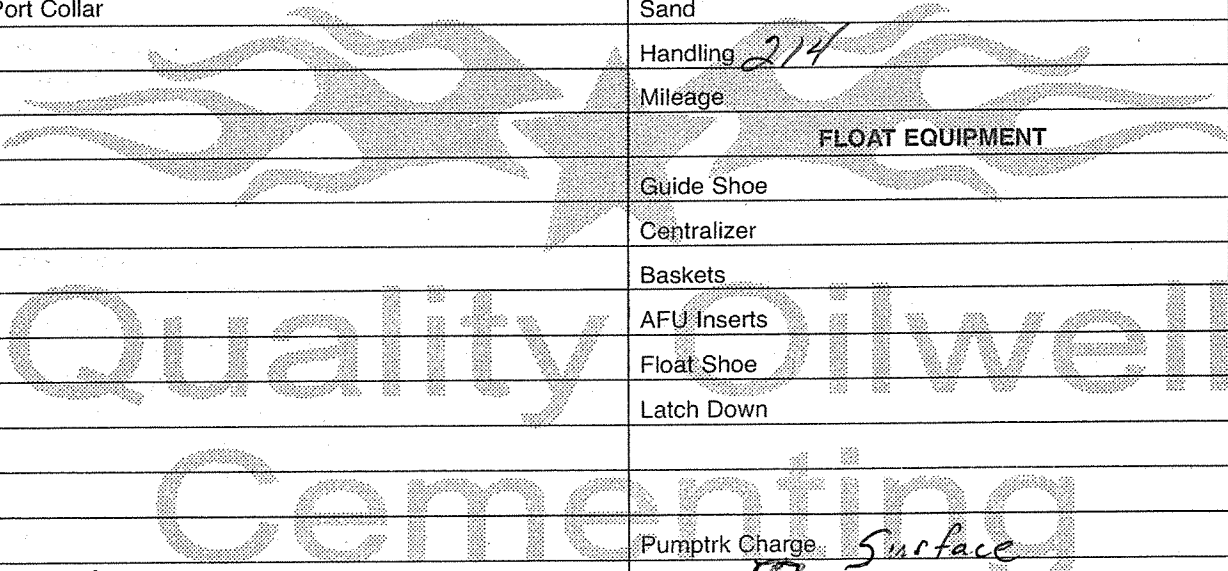
Federal Tax I.D.# 20-2886107

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

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

No. 1327

Date	3-5-16	Sec.	21	Twp.	17	Range	30	County	Scott	State	Ks	On Location		Finish	2:15 PM
Lease								Location		Modoc, Ks - N to The Dead end					
J+B Wilkerson								Well No.	1						
Contractor								Owner							
WW #2								1/2 E, 5 1/2 N, W1/4							
Type Job								To Quality Oilwell Cementing, Inc.							
Surface								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size				T.D.				Charge To							
12 1/4"				345'				Palamino Petroleum							
Csg.				Depth				Street							
8 5/8"				345'											
Tbg. Size				Depth				City							
								State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered							
15'				15'				200 80/20 3% cc 2 1/2 60'							
Meas Line				Displace											
				21 BLS											
EQUIPMENT								Common							
Pumptrk								160							
5 No. Cementer								40							
Helper								Brett							
Bulktrk								Gel.							
9 No. Driver								6							
Driver								Rick							
Bulktrk								Calcium							
No. Driver								8							
Driver															
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Cement did Circulate															
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							
								214							
								Mileage							
FLOAT EQUIPMENT															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Surface							
								Mileage							
								57							
								Tax							
								Discount							
								Total Charge							
Signature															
[Signature]															





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: 3/15/2016
 Invoice # 1330

P.O.#:
 Due Date: 4/14/2016
 Division: Russell

Invoice

RECEIVED

MAR 18 2016

Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 J B WILKINSON 1

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 585.47	Yes				
Common-Class A	174	\$ 2,314.00	Yes				
POZ Mix-Standard	116	\$ 650.52	Yes				
Pump Truck Mileage-Job to Nearest Camp	56	\$ 246.75	Yes				
Bulk Truck Matl-Material Service Charge	300	\$ 240.34	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	56	\$ 157.02	Yes				
Premium Gel (Bentonite)	10	\$ 130.43	Yes				
Flo Seal	72	\$ 115.36	Yes				
4 1/2" Top Rubber Plug	1	\$ 30.44	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,470.34
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (111.76)

SubTotal for Taxable Items:	\$ 4,358.58
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 4,358.58
Tax:	\$ 370.48

8.50% Scott County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,729.06
Applied Payments:
Balance Due: \$ 4,729.06

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.

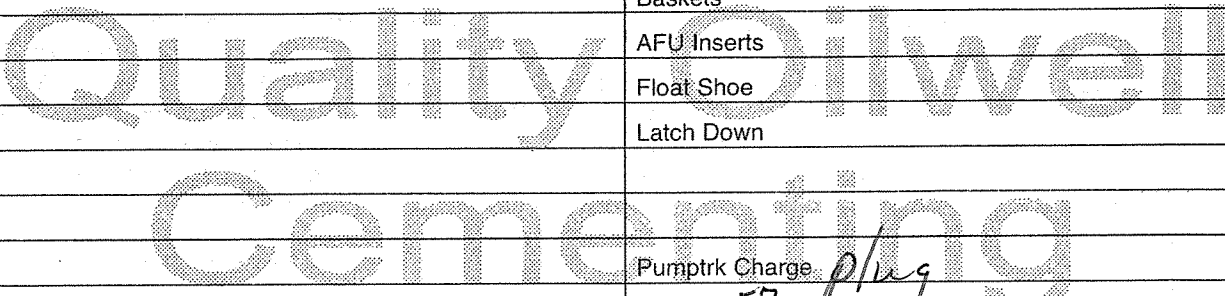
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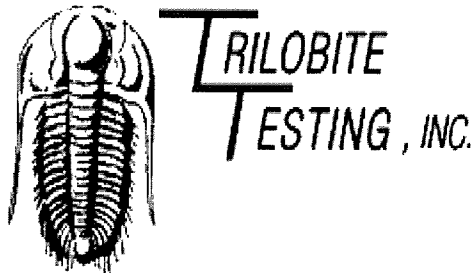
Phone 785-483-2025
Cell 785-324-1041

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

No. 1330

Date	3-15-16	Sec.	21	Twp.	17	Range	34	County	Scott	State	Ks	On Location		Finish	2:30 AM				
Lease								J+B Wilkinson		Location									
Well No.								1		Modoc, Ks - 1N, 1/2E, 4 1/2 N, W15									
Contractor								W W 2		Owner									
Type Job								Plug		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.									
Hole Size								7 7/8"		T.D.		4899'				Charge To		Palamino Petroleum	
Csg.								Depth		Street									
Tbg. Size								4 1/2" D.P.I.		Depth		2380'				City		State	
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered						290 60/40 4% Gel 1/4# Flowseal			
Meas Line								Displace		H2O/mud									
EQUIPMENT												Common				174			
Pumptrk		18		No.		Cementer Helper		Craig		Poz. Mix		116							
Bulktrk		21		No.		Driver		Dougy		Gel.		10							
Bulktrk		pu		No.		Driver		Rick		Calcium									
JOB SERVICES & REMARKS												Hulls							
Remarks:												2380' - 50 SX							
Rat Hole												1340' - 80 SX							
Mouse Hole												700' - 40 SX							
Centralizers												360' - 50 SX							
Baskets												60' - 20 SX							
D/V or Port Collar												Rathole w/ 30 SX							
Cement did												Circulate							
Handling												300							
Mileage																			
FLOAT EQUIPMENT																			
Guide Shoe																			
Centralizer																			
Baskets																			
AFU Inserts																			
Float Shoe																			
Latch Down																			
Pumptrk Charge												plug							
Mileage												57							
Signature												[Signature]							
Tax																			
Discount																			
Total Charge																			





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton KS 67114

ATTN: Ryan Seib

J&B Wilkinson #1

21-17s-34w Scott,KS

Start Date: 2016.03.07 @ 23:16:00

End Date: 2016.03.08 @ 06:13:45

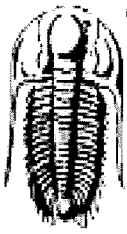
Job Ticket #: 64638 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.03.15 @ 13:45:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum
4924 SE 84th St
New ton KS 67114

ATTN: Ryan Seib

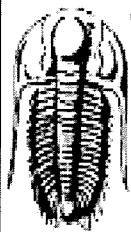
21-17s-34w Scott,KS
J&B Wilkinson #1
Job Ticket: 64638 DST#: 1
Test Start: 2016.03.07 @ 23:16:00

Tool Information

Drill Pipe:	Length: 2604.00 ft	Diameter: 3.80 inches	Volume: 36.53 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 37.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	2737.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	315.00 ft			
Tool Length:	345.00 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			2708.00	
Shut In Tool	5.00			2713.00	
Sampler	3.00			2716.00	
Hydraulic tool	5.00			2721.00	
Jars	5.00			2726.00	
Safety Joint	2.00			2728.00	
Packer	5.00			2733.00	30.00 Bottom Of Top Packer
Packer	4.00			2737.00	
Stubb	1.00			2738.00	
Recorder	0.00	8365	Inside	2738.00	
Recorder	0.00	8522	Outside	2738.00	
Perforations	24.00			2762.00	
Change Over Sub	1.00			2763.00	
Drill Pipe	285.00			3048.00	
Change Over Sub	1.00			3049.00	
Bullnose	3.00			3052.00	315.00 Bottom Packers & Anchor
Total Tool Length:	345.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64638

DST#: 1

ATTN: Ryan Seib

Test Start: 2016.03.07 @ 23:16:00

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
230.00	Mud 100m	2.142

Total Length: 230.00 ft Total Volume: 2.142 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler had 200psig all samples went with Company man.

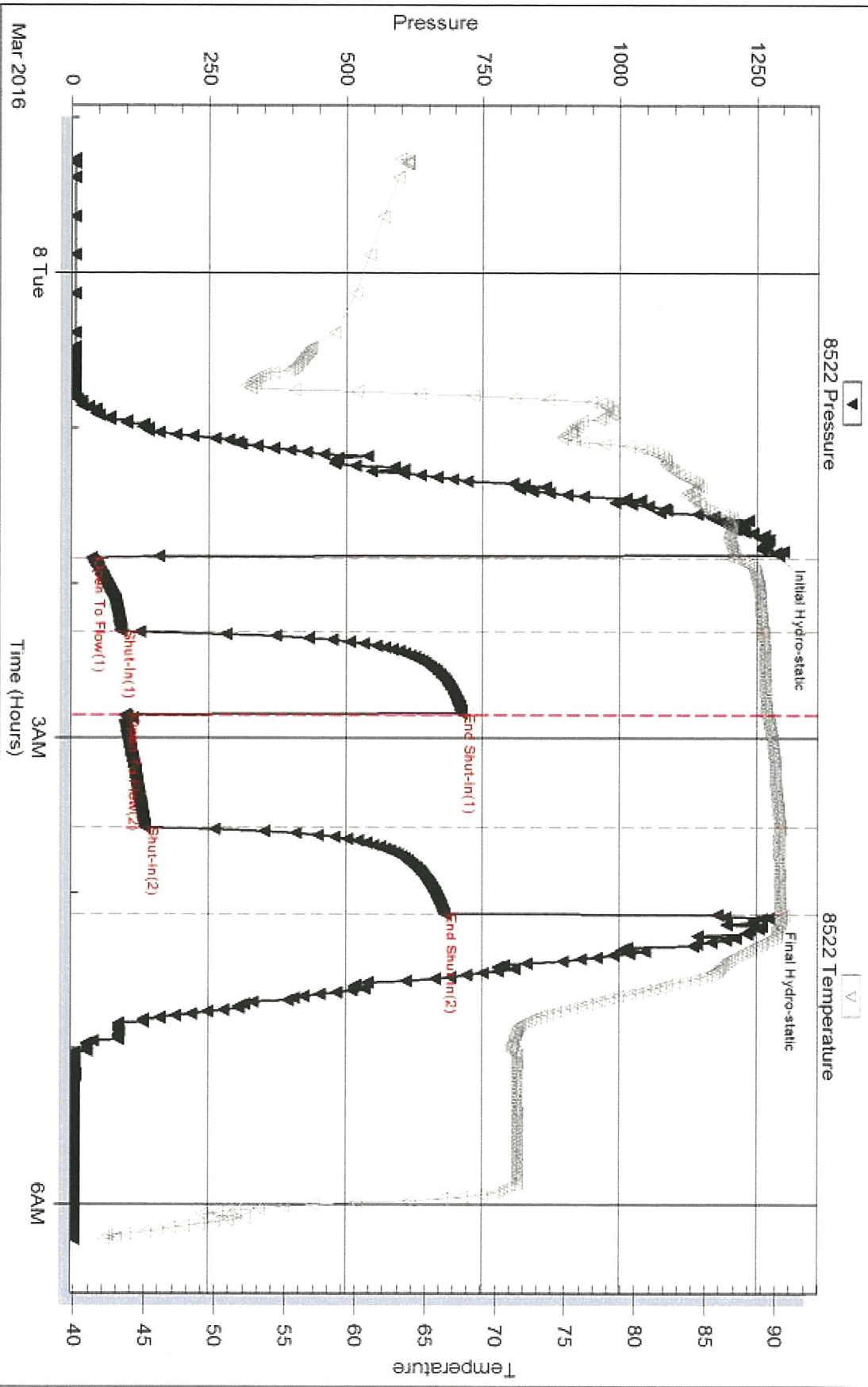
Serial #: 8522

Outside Palomino Petroleum

J&B Wilkinson #1

DST Test Number: 1

Pressure vs. Time



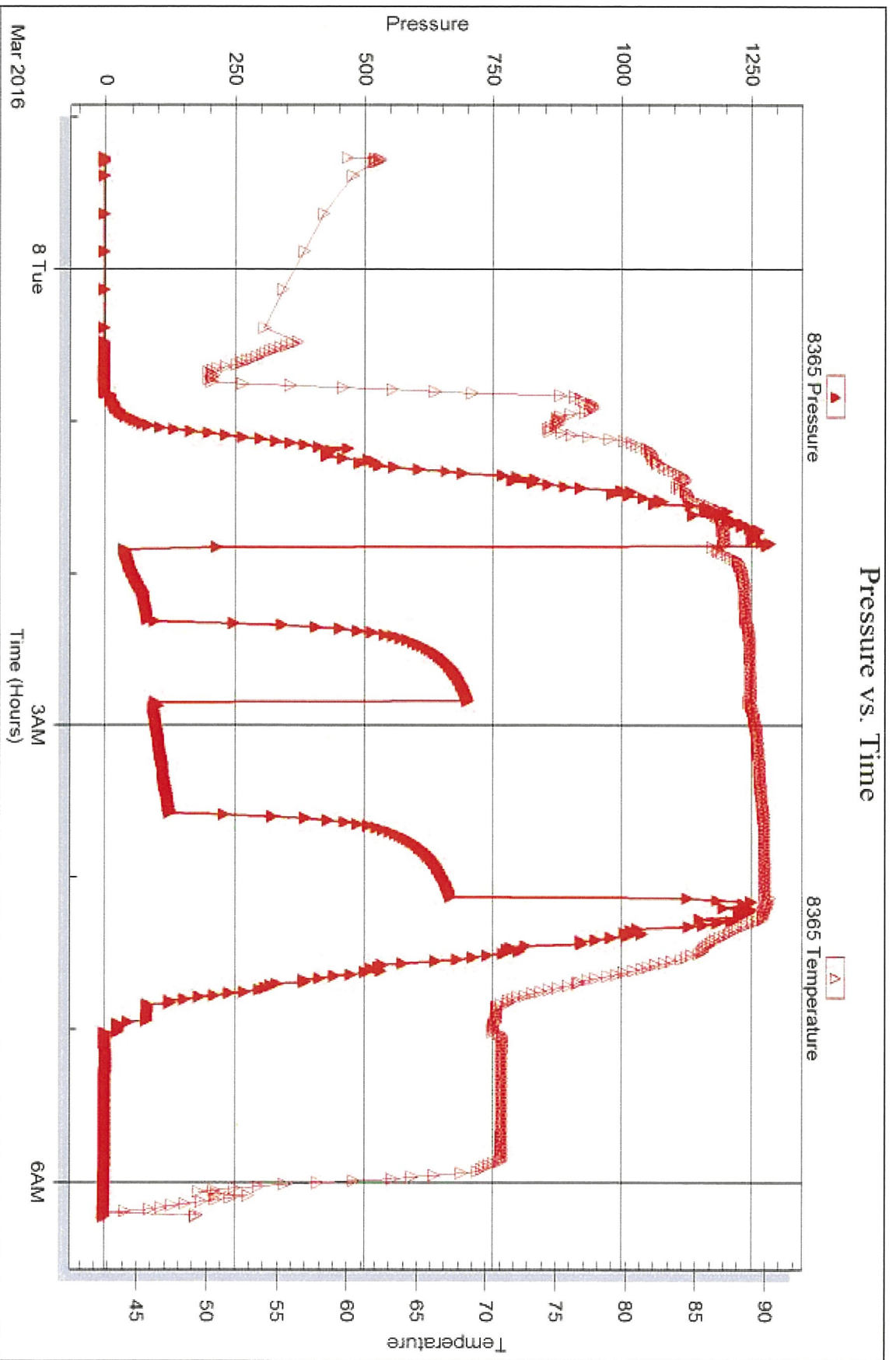
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Inside

Palomino Petroleum

J&B Wilkinson #1

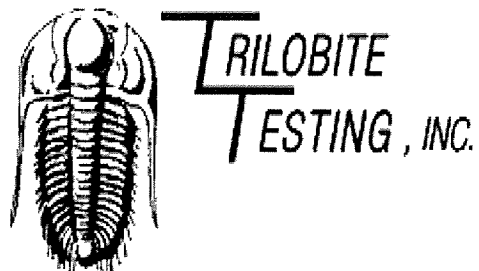
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64638

Printed: 2016 03 15 @ 13:45:02



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton KS 67114

ATTN: Ryan Seib

J&B Wilkinson #1

21-17s-34w Scott,KS

Start Date: 2016.03.10 @ 06:35:00

End Date: 2016.03.10 @ 11:52:13

Job Ticket #: 64639 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.03.15 @ 13:44:36

Palomino Petroleum

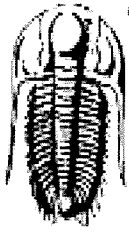
21-17s-34w Scott,KS

J&B Wilkinson #1

DST # 2

LKC C - D

2016.03.10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64639

DST#: 2

ATTN: Ryan Seib

Test Start: 2016.03.10 @ 06:35:00

GENERAL INFORMATION:

Formation: **LKC C - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:24:30

Time Test Ended: 11:52:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: **3978.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Reference Elevations: 3161.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

3156.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: 105.74 psig @ 3979.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.10

End Date: 2016.03.10

Last Calib.: 2016.03.10

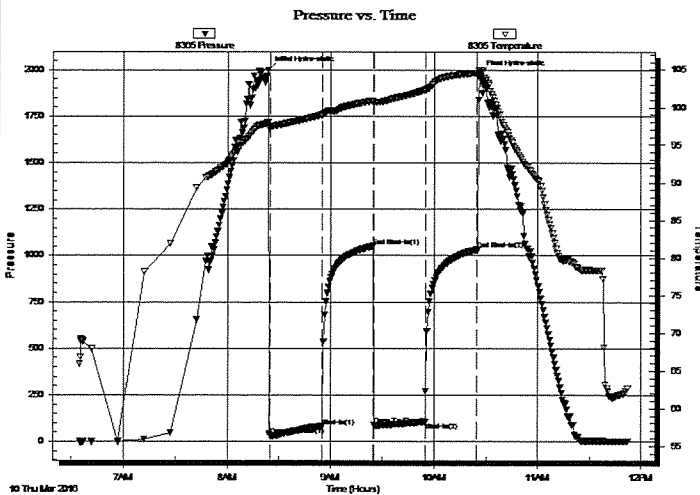
Start Time: 06:35:05

End Time: 11:52:13

Time On Btm: 2016.03.10 @ 08:23:45

Time Off Btm: 2016.03.10 @ 10:26:15

TEST COMMENT: IF: 3" blow.
IS: No return.
FF: 2" blow.
FS: No return.



PRESSURE SUMMARY

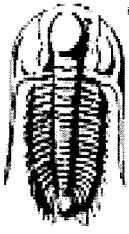
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.95	97.99	Initial Hydro-static
1	31.43	97.45	Open To Flow (1)
31	80.00	98.97	Shut-In(1)
61	1051.43	100.87	End Shut-In(1)
61	86.53	100.67	Open To Flow (2)
91	105.74	102.32	Shut-In(2)
121	1033.04	104.58	End Shut-In(2)
123	1976.12	104.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	w cm 25w 75m (oil spots)	1.51

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

21-17s-34w Scott, KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64639

DST#: 2

ATTN: Ryan Seib

Test Start: 2016.03.10 @ 06:35:00

GENERAL INFORMATION:

Formation: **LKC C - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:24:30

Time Test Ended: 11:52:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: **3978.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Reference Elevations: 3161.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

3156.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8522** Outside

Press@RunDepth: psig @ 3979.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.10

End Date:

2016.03.10

Last Calib.:

2016.03.10

Start Time: 06:35:05

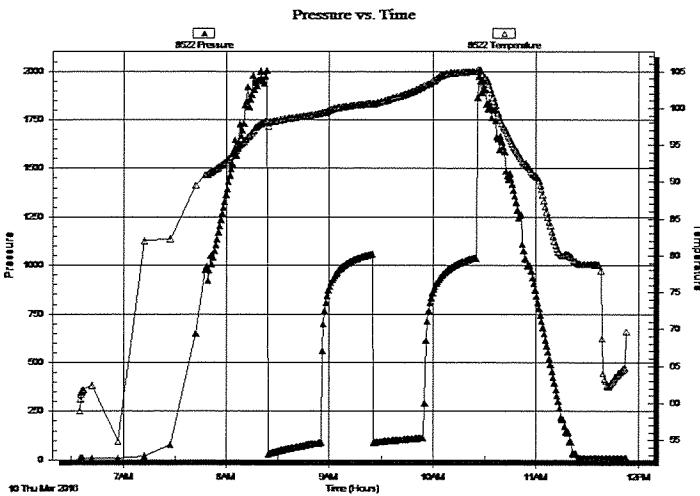
End Time:

11:53:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 3" blow.
IS: No return.
FF: 2" blow.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
185.00	w cm 25w 75m (oil spots)	1.51

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64639

DST#: 2

ATTN: Ryan Seib

Test Start: 2016.03.10 @ 06:35:00

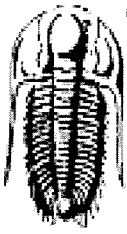
Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.80 inches	Volume: 53.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 54.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3978.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	99.00 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			3952.00	
Shut In Tool	5.00			3957.00	
Hydraulic tool	5.00			3962.00	
Jars	5.00			3967.00	
Safety Joint	2.00			3969.00	
Packer	5.00			3974.00	27.00 Bottom Of Top Packer
Packer	4.00			3978.00	
Stubb	1.00			3979.00	
Recorder	0.00	8365	Inside	3979.00	
Recorder	0.00	8522	Outside	3979.00	
Perforations	3.00			3982.00	
Change Over Sub	1.00			3983.00	
Drill Pipe	63.00			4046.00	
Change Over Sub	1.00			4047.00	
Bullnose	3.00			4050.00	72.00 Bottom Packers & Anchor

Total Tool Length: 99.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64639

DST#: 2

ATTN: Ryan Seib

Test Start: 2016.03.10 @ 06:35:00

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:

32000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
185.00	w cm 25w 75m (oil spots)	1.511

Total Length: 185.00 ft Total Volume: 1.511 bbf

Num Fluid Samples: 0

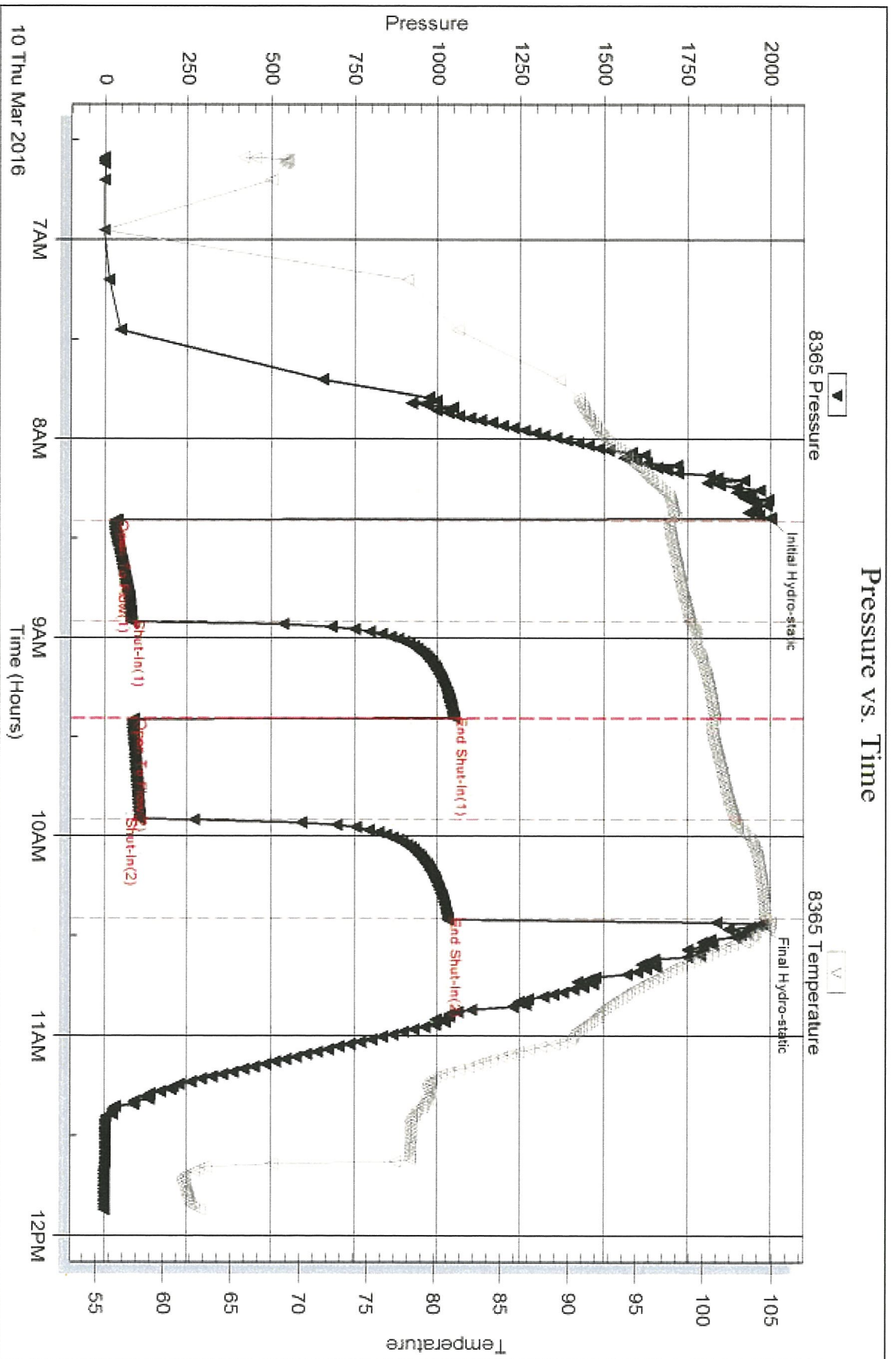
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .250 @ 60 = 32000ppm

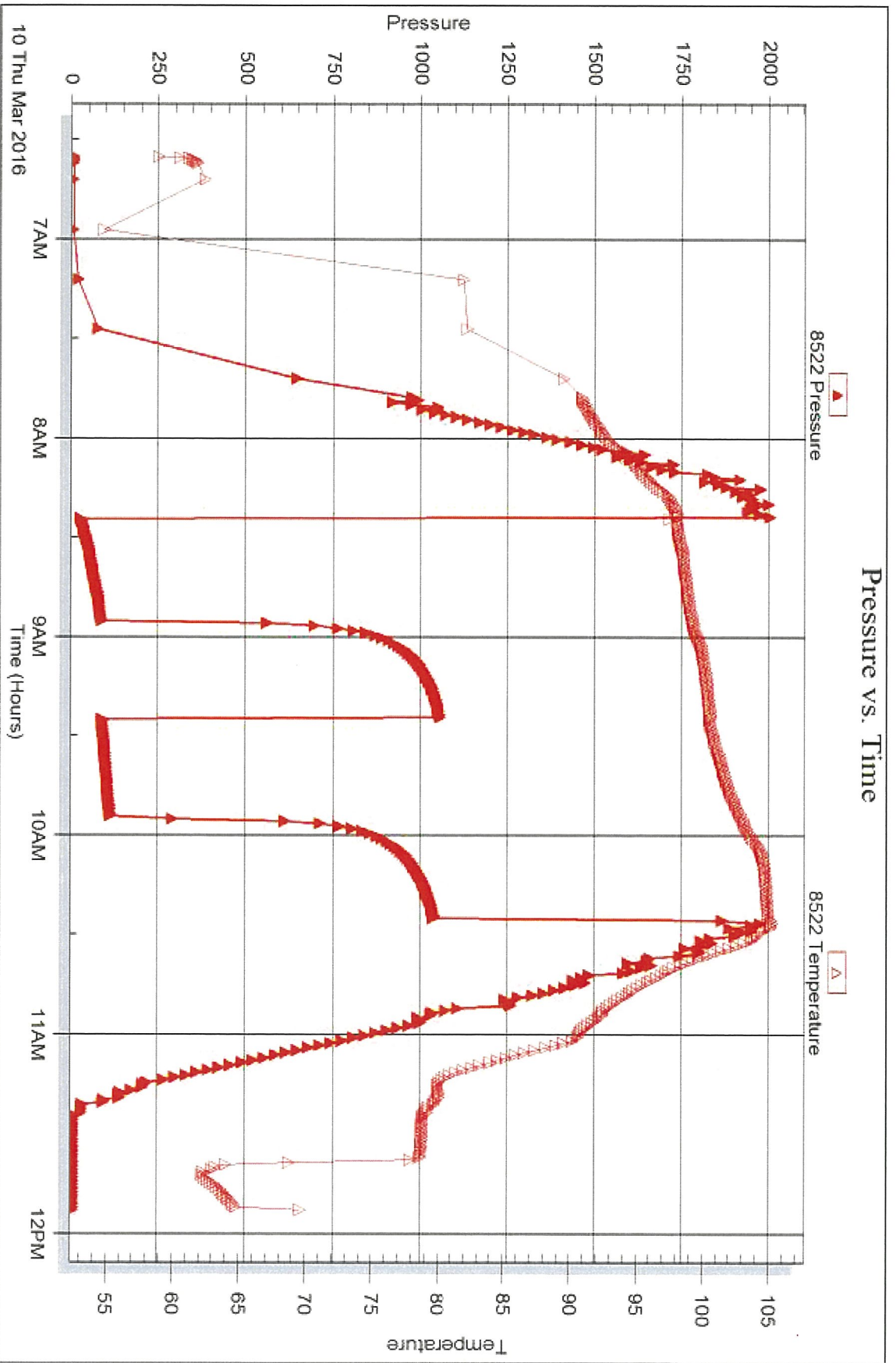


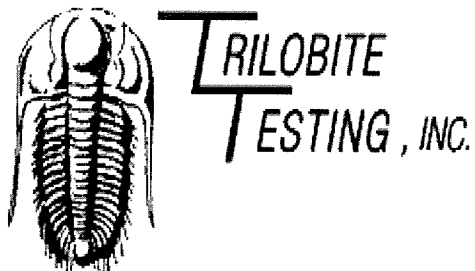
Serial #: 8522

Outside Palomino Petroleum

J&B Wilkinson #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton KS 67114

ATTN: Ryan Seib

J&B Wilkinson #1

21-17s-34w Scott,KS

Start Date: 2016.03.11 @ 05:12:00

End Date: 2016.03.11 @ 10:14:00

Job Ticket #: 64640 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.03.15 @ 13:44:14

Palomino Petroleum

21-17s-34w Scott,KS

J&B Wilkinson #1

DST # 3

LKC 1 - J

2016.03.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 Newton KS 67114
 ATTN: Ryan Seib

21-17s-34w Scott,KS
J&B Wilkinson #1
 Job Ticket: 64640 **DST#: 3**
 Test Start: 2016.03.11 @ 05:12:00

GENERAL INFORMATION:

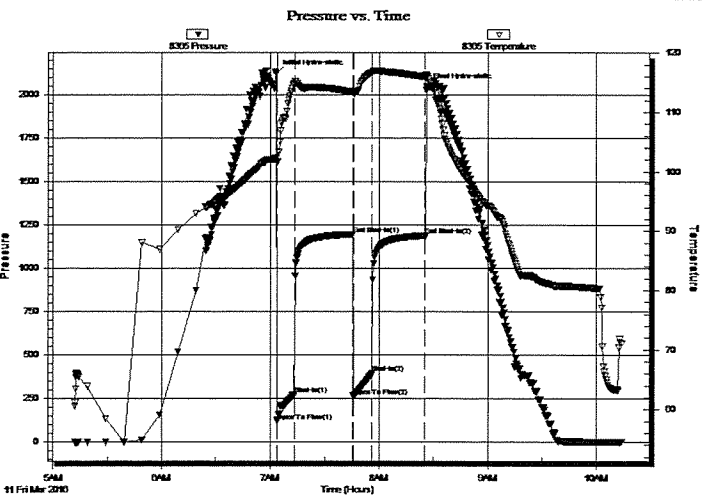
Formation: **LKC I - J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:03:45
 Time Test Ended: 10:14:00
 Interval: **4174.00 ft (KB) To 4235.00 ft (KB) (TVD)**
 Total Depth: **4235.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 3161.00 ft (KB)
 3156.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 393.15 psig @ 4175.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.11 End Date: 2016.03.11 Last Calib.: 2016.03.11
 Start Time: 05:12:05 End Time: 10:13:59 Time On Btm: 2016.03.11 @ 07:03:15
 Time Off Btm: 2016.03.11 @ 08:26:00

TEST COMMENT: IF: BOB at 2 min.
 IS: No return.
 FF: BOB at 2 min.
 IS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2124.30	102.26	Initial Hydro-static
1	119.79	101.58	Open To Flow (1)
10	274.52	114.79	Shut-In(1)
42	1196.63	113.37	End Shut-In(1)
42	263.67	113.07	Open To Flow (2)
53	393.15	116.66	Shut-In(2)
82	1189.81	115.92	End Shut-In(2)
83	2046.56	116.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
800.00	mcw 15m 85w (Oil spots)	10.14

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St
New ton KS 67114
ATTN: Ryan Seib

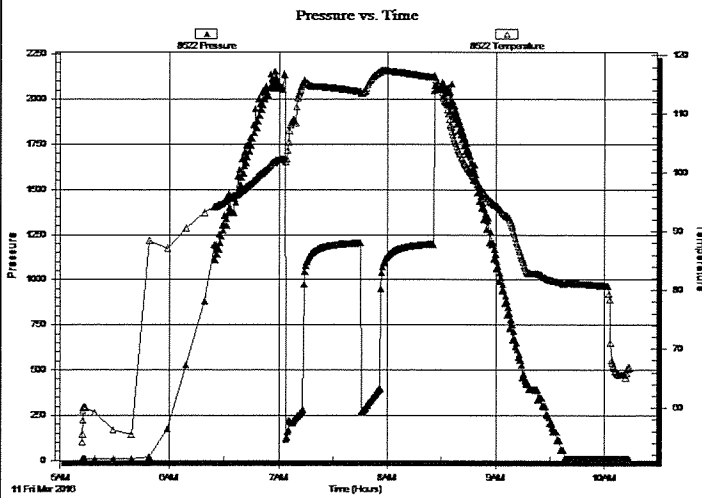
21-17s-34w Scott,KS
J&B Wilkinson #1
Job Ticket: 64640 **DST#: 3**
Test Start: 2016.03.11 @ 05:12:00

GENERAL INFORMATION:

Formation: **LKC I - J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:03:45
Time Test Ended: 10:14:00
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 69
Interval: 4174.00 ft (KB) To 4235.00 ft (KB) (TVD)
Reference Elevations: 3161.00 ft (KB)
Total Depth: 4235.00 ft (KB) (TVD) 3156.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8522 **Outside**
Press@RunDepth: psig @ 4175.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.03.11 End Date: 2016.03.11 Last Calib.: 1899.12.30
Start Time: 05:12:05 End Time: 10:13:44 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB at 2 min.
IS: No return.
FF: BOB at 2 min.
IS: No return.



PRESSURE SUMMARY

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

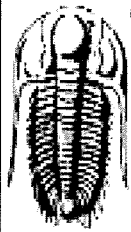
Recovery

Length (ft)	Description	Volume (bbl)
800.00	mcw 15m 85w (Oil spots)	10.14

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

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64640

DST#: 3

ATTN: Ryan Seib

Test Start: 2016.03.11 @ 05:12:00

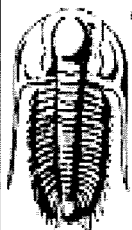
Tool Information

Drill Pipe:	Length: 4060.00 ft	Diameter: 3.80 inches	Volume: 56.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 57.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4174.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.00 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			4148.00	
Shut In Tool	5.00			4153.00	
Hydraulic tool	5.00			4158.00	
Jars	5.00			4163.00	
Safety Joint	2.00			4165.00	
Packer	5.00			4170.00	27.00 Bottom Of Top Packer
Packer	4.00			4174.00	
Stubb	1.00			4175.00	
Recorder	0.00	8365	Inside	4175.00	
Recorder	0.00	8522	Outside	4175.00	
Perforations	24.00			4199.00	
Change Over Sub	1.00			4200.00	
Drill Pipe	31.00			4231.00	
Change Over Sub	1.00			4232.00	
Bullnose	3.00			4235.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64640

DST#: 3

ATTN: Ryan Seib

Test Start: 2016.03.11 @ 05:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

53000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

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
800.00	mcw 15m 85w (Oil spots)	10.138

Total Length: 800.00 ft Total Volume: 10.138 bbl

Num Fluid Samples: 0

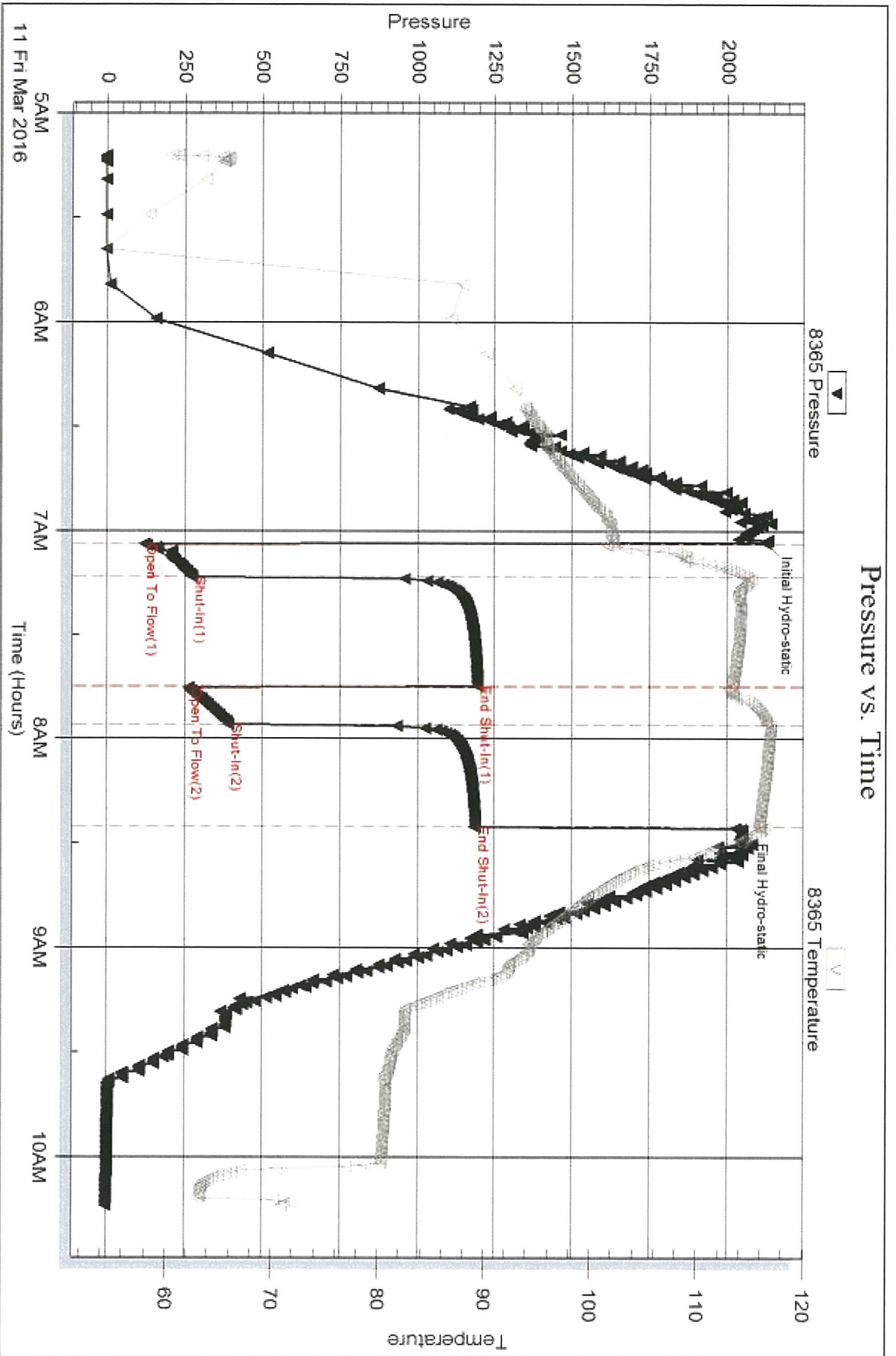
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .280 @ 48F= 53000ppm

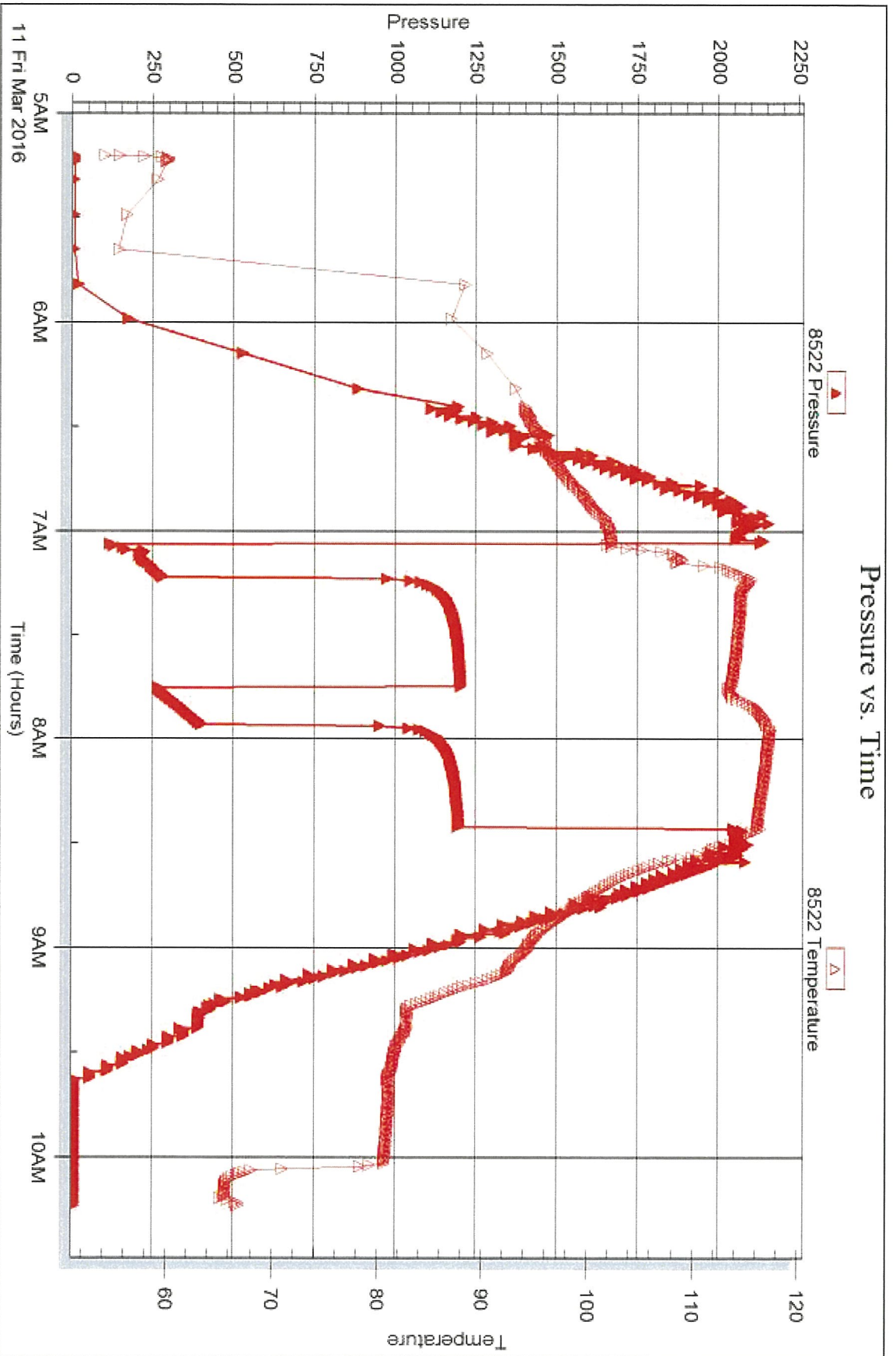


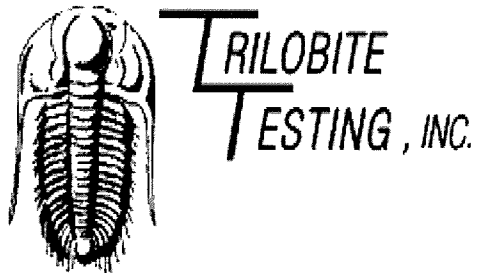
Serial #: 8522

Outside Palomino Petroleum

J&B Wilkinson #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton KS 67114

ATTN: Ryan Seib

J&B Wilkinson #1

21-17s-34w Scott,KS

Start Date: 2016.03.11 @ 20:09:00

End Date: 2016.03.12 @ 01:56:45

Job Ticket #: 64641 DST #: 4

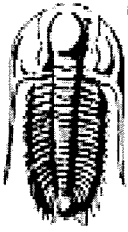
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.03.15 @ 13:43:03

Palomino Petroleum
21-17s-34w Scott,KS
J&B Wilkinson #1
DST # 4
LKC K-L
2016.03.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 Newton KS 67114
 ATTN: Ryan Seib

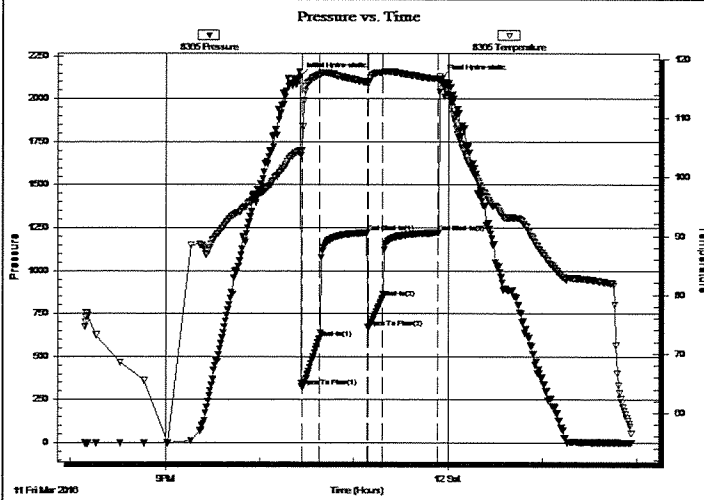
21-17s-34w Scott,KS
J&B Wilkinson #1
 Job Ticket: 64641 **DST#: 4**
 Test Start: 2016.03.11 @ 20:09:00

GENERAL INFORMATION:

Formation: **LKC K-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:27:00
 Time Test Ended: 01:56:45
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Interval: **4242.00 ft (KB) To 4340.00 ft (KB) (TVD)**
 Reference Elevations: 3161.00 ft (KB)
 Total Depth: 4340.00 ft (KB) (TVD) 3156.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8365 **Inside**
 Press@RunDepth: 839.98 psig @ 4243.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.11 End Date: 2016.03.12 Last Calib.: 2016.03.12
 Start Time: 20:09:05 End Time: 01:56:44 Time On Btm: 2016.03.11 @ 22:26:00
 Time Off Btm: 2016.03.11 @ 23:55:15

TEST COMMENT: IF: BOB at 45 sec.
 IS: No return.
 FF: BOB at 1 min.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2130.32	104.40	Initial Hydro-static
1	323.59	104.45	Open To Flow (1)
13	604.99	117.32	Shut-In(1)
43	1222.48	116.09	End Shut-In(1)
43	666.40	115.76	Open To Flow (2)
53	839.98	117.76	Shut-In(2)
87	1221.69	116.66	End Shut-In(2)
90	2119.66	116.54	Final Hydro-static

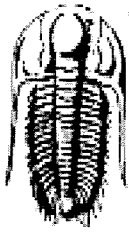
Recovery

Length (ft)	Description	Volume (bbl)
1770.00	mcw 5m 95w (oil spots)	23.74

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 Newton KS 67114
 ATTN: Ryan Seib

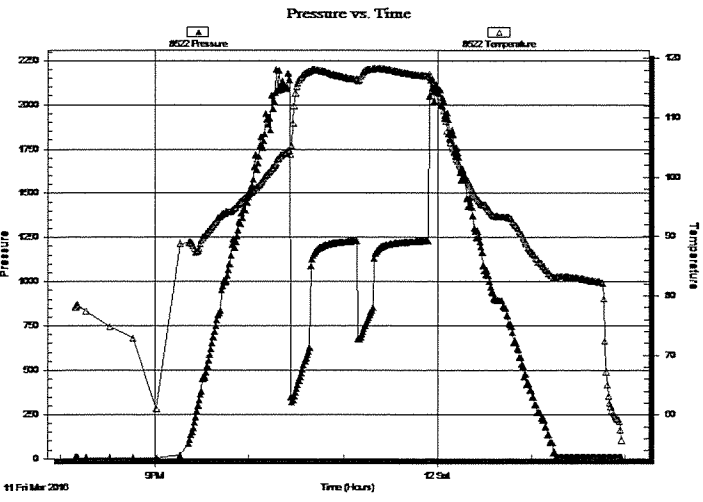
21-17s-34w Scott,KS
J&B Wilkinson #1
 Job Ticket: 64641 **DST#: 4**
 Test Start: 2016.03.11 @ 20:09:00

GENERAL INFORMATION:

Formation: **LKC K-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:27:00
 Time Test Ended: 01:56:45
 Interval: **4242.00 ft (KB) To 4340.00 ft (KB) (TVD)**
 Total Depth: 4340.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 3161.00 ft (KB)
 3156.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8522 Outside
 Press@RunDepth: psig @ 4243.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.11 End Date: 2016.03.12 Last Calib.: 2016.03.12
 Start Time: 20:09:05 End Time: 01:57:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB at 45 sec.
 IS: No return.
 FF: BOB at 1 min.
 FS: No return.

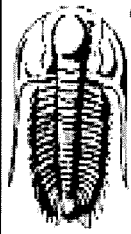


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
1770.00	mcw 5m 95w (oil spots)	23.74

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

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64641

DST#: 4

ATTN: Ryan Seib

Test Start: 2016.03.11 @ 20:09:00

Tool Information

Drill Pipe:	Length: 4120.00 ft	Diameter: 3.80 inches	Volume: 57.79 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4242.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	125.00 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			4216.00	
Shut In Tool	5.00			4221.00	
Hydraulic tool	5.00			4226.00	
Jars	5.00			4231.00	
Safety Joint	2.00			4233.00	
Packer	5.00			4238.00	27.00 Bottom Of Top Packer
Packer	4.00			4242.00	
Stubb	1.00			4243.00	
Recorder	0.00	8365	Inside	4243.00	
Recorder	0.00	8522	Outside	4243.00	
Perforations	29.00			4272.00	
Change Over Sub	1.00			4273.00	
Drill Pipe	63.00			4336.00	
Change Over Sub	1.00			4337.00	
Bullnose	3.00			4340.00	98.00 Bottom Packers & Anchor
Total Tool Length:	125.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64641

DST#: 4

ATTN: Ryan Seib

Test Start: 2016.03.11 @ 20:09:00

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:

49000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1770.00	mcw 5m 95w (oil spots)	23.744

Total Length: 1770.00 ft Total Volume: 23.744 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .220 @ 51F = 49,000ppm

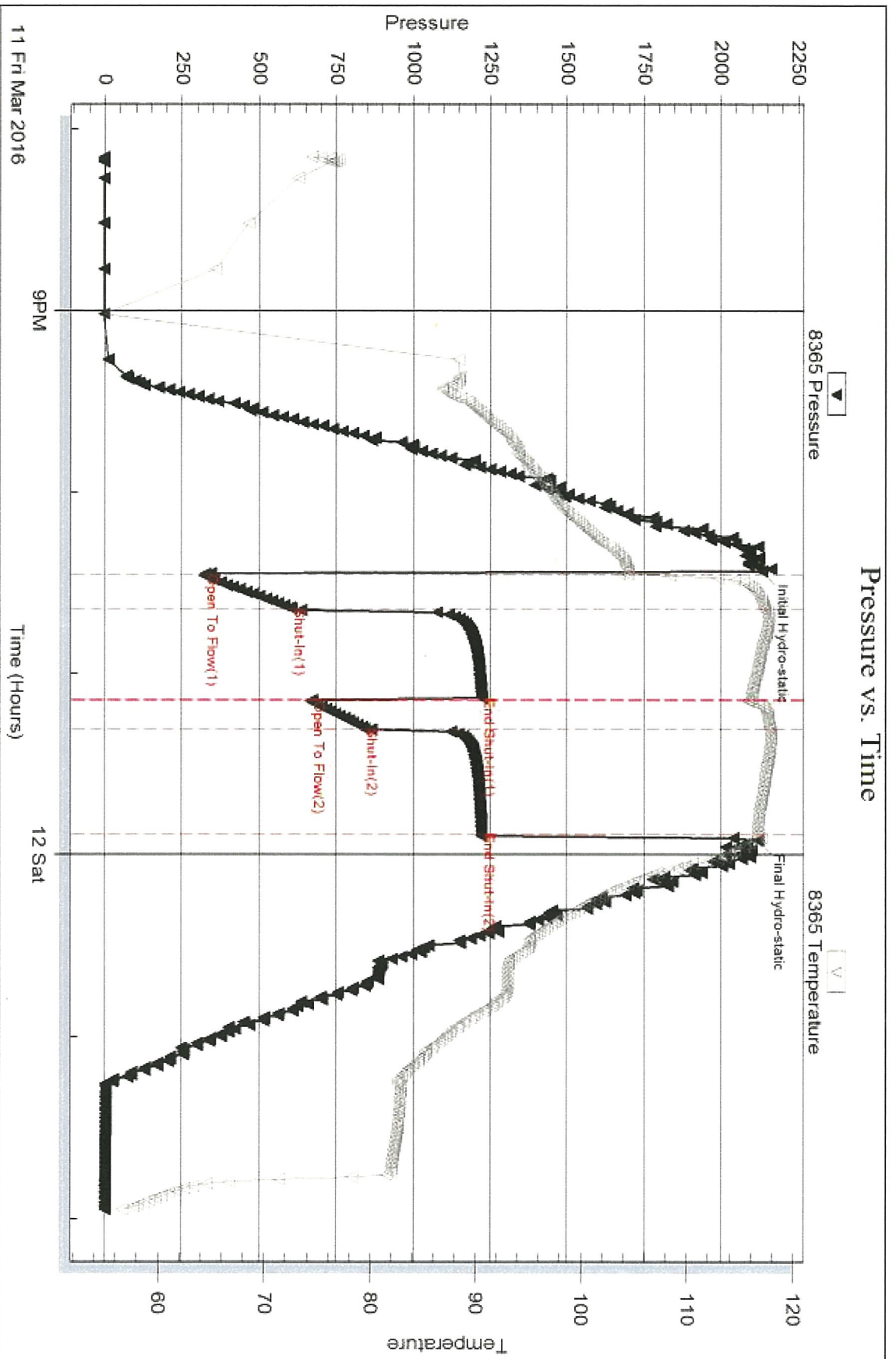
Serial #: 8365

Inside

Palomino Petroleum

J&B Wilkinson #1

OST Test Number: 4



Triobite Testing, Inc

Ref. No: 64641

Printed: 2016.03.15 @ 13:43:04

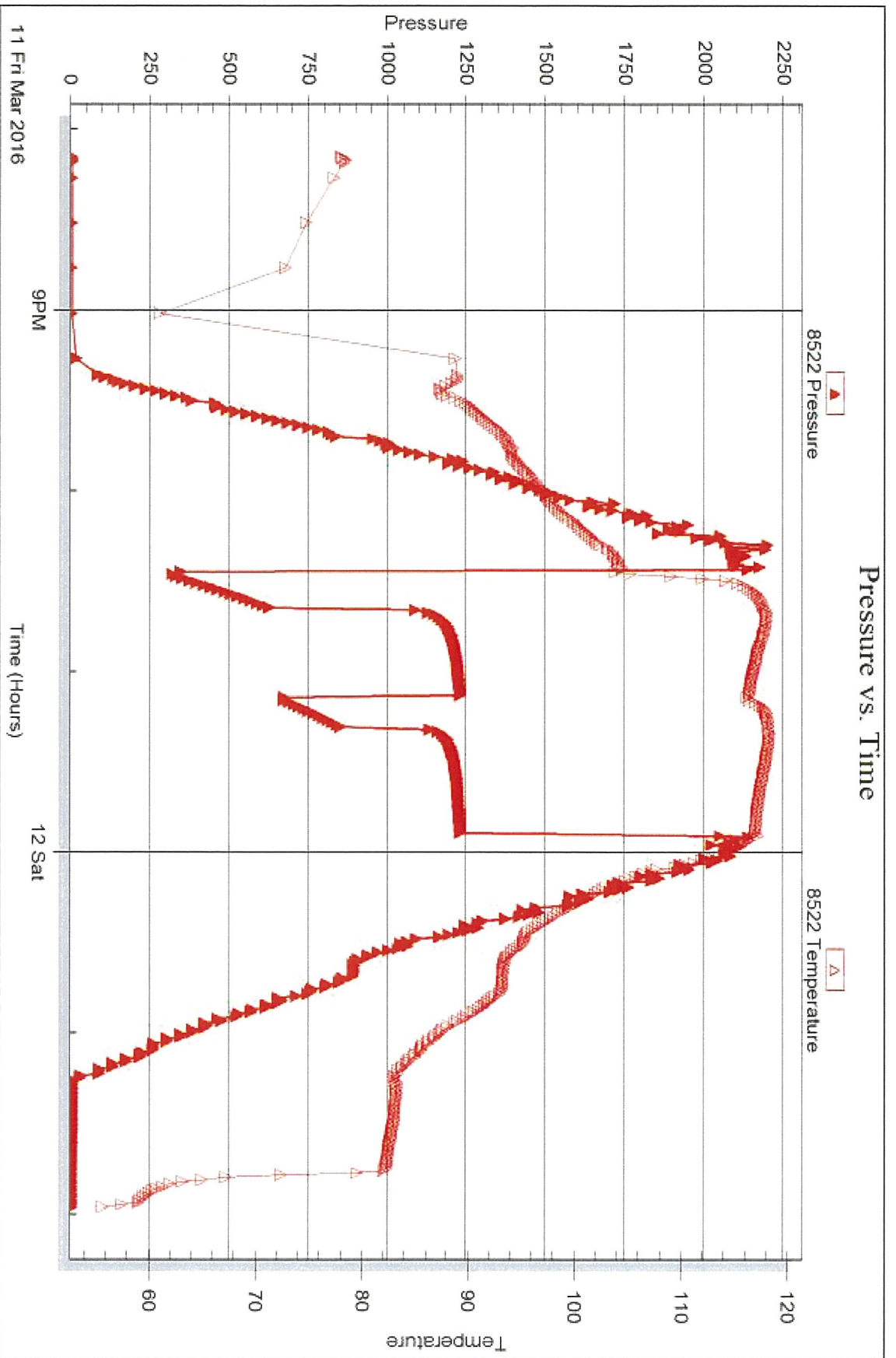
Serial #: 8522

Outside

Palomino Petroleum

J&B Wilkinson #1

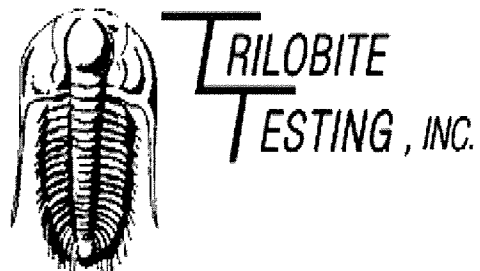
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 64641

Printed: 2016.03.15 @ 13:43:04



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton KS 67114

ATTN: Ryan Seib

J&B Wilkinson #1

21-17s-34w Scott,KS

Start Date: 2016.03.12 @ 15:18:00

End Date: 2016.03.12 @ 21:28:45

Job Ticket #: 64642 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.03.15 @ 13:42:46

Palomino Petroleum

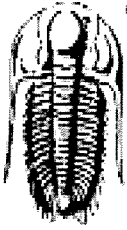
21-17s-34w Scott,KS

J&B Wilkinson #1

DST # 5

Marmaton

2016.03.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 Newton KS 67114
 ATTN: Ryan Seib

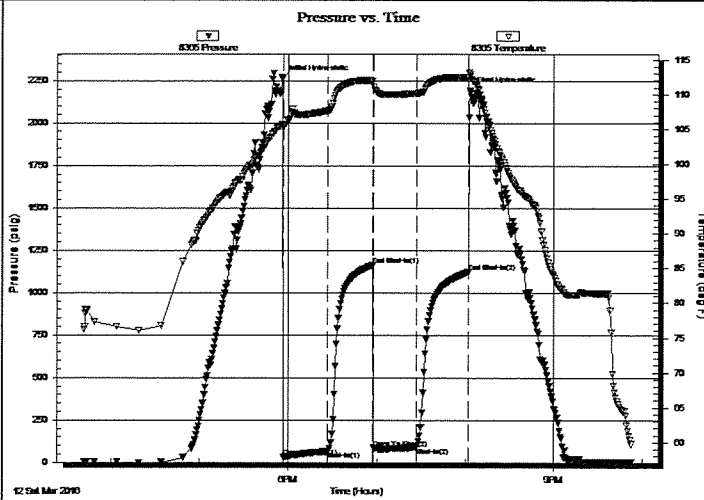
21-17s-34w Scott,KS
J&B Wilkinson #1
 Job Ticket: 64642 **DST#: 5**
 Test Start: 2016.03.12 @ 15:18:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:32:45
 Time Test Ended: 21:28:45
 Interval: **4369.00 ft (KB) To 4480.00 ft (KB) (TVD)**
 Total Depth: 4480.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 3161.00 ft (KB)
 3156.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8365 **Inside**
 Press@RunDepth: 90.63 psig @ 4370.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.12 End Date: 2016.03.12 Last Calib.: 2016.03.12
 Start Time: 15:42:05 End Time: 21:52:44 Time On Btm: 2016.03.12 @ 17:56:00
 Time Off Btm: 2016.03.12 @ 20:03:15

TEST COMMENT: IF: 6" blow.
 IS: Surface return, died at 15.
 FF: 5" blow.
 FSI: Surface return, died at 15 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.74	105.72	Initial Hydro-static
1	34.16	105.16	Open To Flow (1)
31	65.10	107.64	Shut-In(1)
61	1160.84	111.95	End Shut-In(1)
62	86.19	111.04	Open To Flow (2)
91	90.63	110.15	Shut-In(2)
127	1121.79	112.53	End Shut-In(2)
128	2190.74	112.86	Final Hydro-static

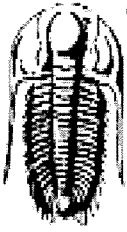
Recovery

Length (ft)	Description	Volume (bbl)
70.00	gmco 30g 30m 40o	0.34
120.00	gmco 30g 10m 60o	1.24
0.00	180' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 Newton KS 67114
 ATTN: Ryan Seib

21-17s-34w Scott,KS
J&B Wilkinson #1
 Job Ticket: 64642 **DST#: 5**
 Test Start: 2016.03.12 @ 15:18:00

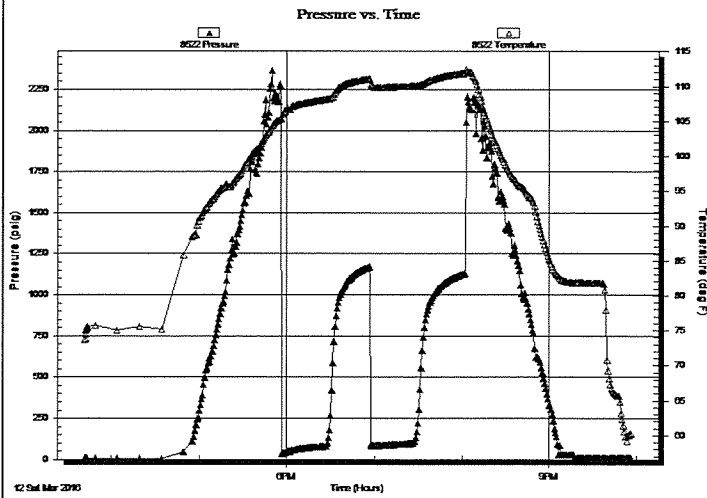
GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:32:45
 Time Test Ended: 21:28:45
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Interval: **4369.00 ft (KB) To 4480.00 ft (KB) (TVD)**
 Reference Elevations: 3161.00 ft (KB)
 Total Depth: 4480.00 ft (KB) (TVD) 3156.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press@RunDepth: psig @ 4370.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2016.03.12 End Date: 2016.03.12	Last Calib.: 2016.03.12
Start Time: 15:42:05 End Time: 21:55:59	Time On Btm: Time Off Btm:

TEST COMMENT: IF: 6" blow.
 IS: Surface return, died at 15.
 FF: 5" blow.
 FS: Surface return, died at 15 min.



PRESSURE SUMMARY

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

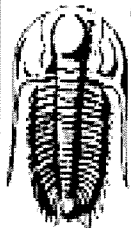
Recovery

Length (ft)	Description	Volume (bbl)
70.00	gmco 30g 30m 40o	0.34
120.00	gmco 30g 10m 60o	1.24
0.00	180' GIP	0.00

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

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64642

DST#: 5

ATTN: Ryan Seib

Test Start: 2016.03.12 @ 15:18:00

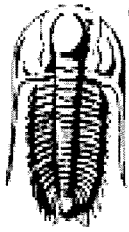
Tool Information

Drill Pipe:	Length: 4250.00 ft	Diameter: 3.80 inches	Volume: 59.62 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4369.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	111.00 ft			
Tool Length:	138.00 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			4343.00	
Shut In Tool	5.00			4348.00	
Hydraulic tool	5.00			4353.00	
Jars	5.00			4358.00	
Safety Joint	2.00			4360.00	
Packer	5.00			4365.00	27.00 Bottom Of Top Packer
Packer	4.00			4369.00	
Stubb	1.00			4370.00	
Recorder	0.00	8365	Inside	4370.00	
Recorder	0.00	8522	Outside	4370.00	
Perforations	10.00			4380.00	
Change Over Sub	1.00			4381.00	
Drill Pipe	95.00			4476.00	
Change Over Sub	1.00			4477.00	
Bullnose	3.00			4480.00	111.00 Bottom Packers & Anchor

Total Tool Length: 138.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

21-17s-34w Scott,KS

4924 SE 84th St
New ton KS 67114

J&B Wilkinson #1

Job Ticket: 64642

DST#: 5

ATTN: Ryan Seib

Test Start: 2016.03.12 @ 15:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

20 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	gmco 30g 30m 40o	0.344
120.00	gmco 30g 10m 60o	1.237
0.00	180' GIP	0.000

Total Length: 190.00 ft

Total Volume: 1.581 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

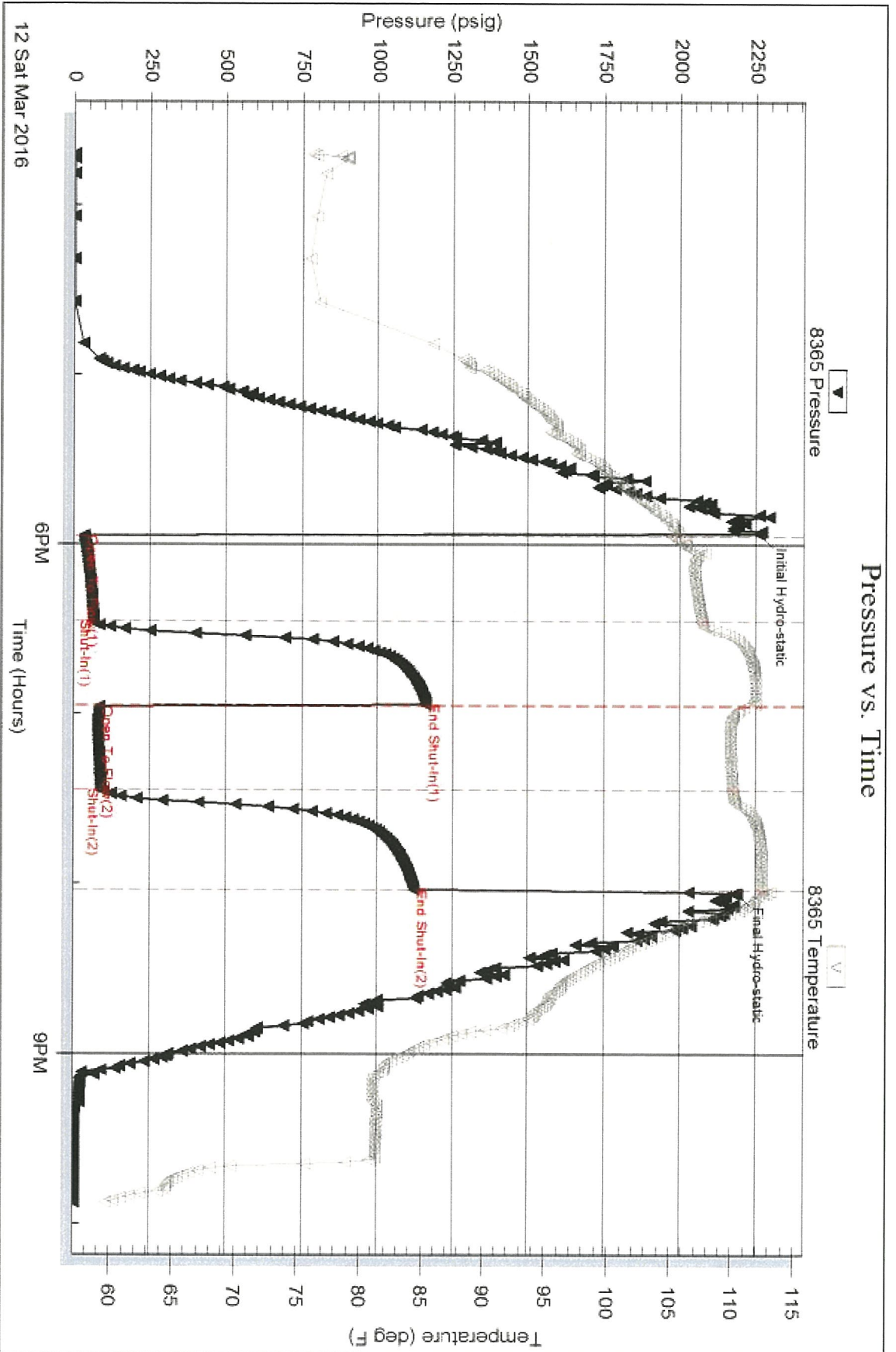
Serial #: 8365

Inside

Palomino Petroleum

J&B Wilkinson #1

DST Test Number: 5



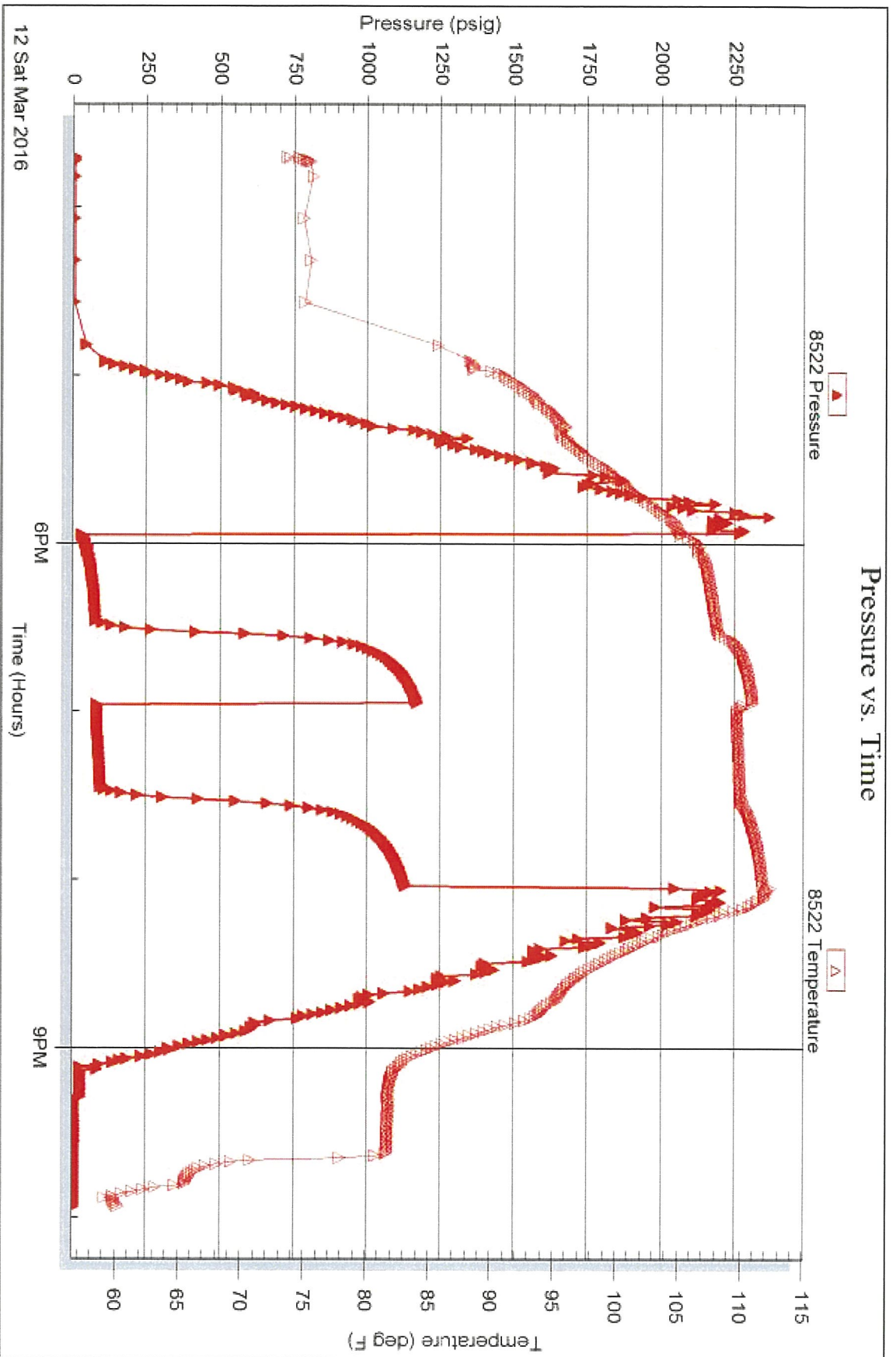
Serial #: 8522

Outside

Palomino Petroleum

J&B Wilkinson #1

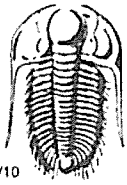
DST Test Number: 5



Trioble Testing, Inc

Ref. No: 64642

Printed: 2016 03 15 @ 13:42:49



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64638

Well Name & No. J & B Wilkinson # 1 Test No. 1 Date 3/03/2012
 Company Highlands Natural Resources Elevation 3161 KB 315.5 GL
 Address 50 S. Steele St. Ste 600 Denver, Co 80209
 Co. Rep / Geo. Paul Mendell Rig WW #2
 Location: Sec. 21 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 2737 - 3052 Zone Tested Chase
 Anchor Length 315 Drill Pipe Run 2604 Mud Wt. 8.7
 Top Packer Depth 2742 Drill Collars Run 119 Vis 60
 Bottom Packer Depth 2737 Wt. Pipe Run 0 WL 6.4
 Total Depth 3052 Chlorides 6,000 ppm System LCM 1 #
 Blow Description IF 4 1/2" blow
ISI No return.
FF 2 1/2" blow
FSI No return

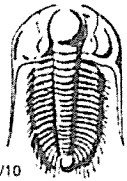
Rec	Feet of	%gas	%oil	%water	%mud
<u>230</u>	<u>MUD</u>			<u>100</u>	
	<u>Sampler samples sent</u>				
	<u>with Co, man 200 PSI</u>				

Rec Total 230 BHT 90 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1291</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>2300</u>
(B) First Initial Flow <u>37</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2316</u>
(C) First Final Flow <u>92</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0150</u>
(D) Initial Shut-In <u>713</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0405</u>
(E) Second Initial Flow <u>100</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0614</u>
(F) Second Final Flow <u>134</u>	<input checked="" type="checkbox"/> Mileage <u>25 RT</u> <u>18.75</u>	Comments <u>1 Gas sample bottle sent with Co man</u>
(G) Final Shut-In <u>690</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1274</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>49</u>	<input type="checkbox"/> Extra Recorder	Total <u>1893.75</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1893.75</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64639

Well Name & No. J & B Wilkinson #1 Test No. 2 Date 3/10/2016
 Company Palomino Petroleum, Inc Elevation 3161 KB 3155 GL
 Address 4924 SE 84th St. Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WW #2
 Location: Sec. 21 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 3978 - 4050 Zone Tested LKC G&D
 Anchor Length 72' Drill Pipe Run 3840 Mud Wt. 9.2
 Top Packer Depth 3973 Drill Collars Run 119 Vis 50
 Bottom Packer Depth 3978 Wt. Pipe Run 0 WL 9.6
 Total Depth 4050 Chlorides 9,000 ppm System LCM 2#

Blow Description JF: 3" blow
ISI: No return.
FF: 2" blow.
FSI: No return.

Rec	Feet of	(OIL SPOTS)	%gas	%oil	%water	%mud
<u>185</u>	<u>WCW</u>			<u>25</u>	<u>75</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

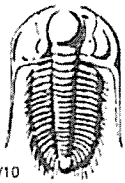
Rec Total 185 BHT 105 Gravity - API RW 1250 @ 60 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic 2,000 Test 1150 T-On Location 0600
 (B) First Initial Flow 31 Jars 250 T-Started 0640
 (C) First Final Flow 80 Safety Joint 75 T-Open 0924
 (D) Initial Shut-In 1051 Circ Sub _____ T-Pulled 1024
 (E) Second Initial Flow 87 Hourly Standby _____ T-Out 1153
 (F) Second Final Flow 106 Mileage 25RT 18.75 Comments _____
 (G) Final Shut-In 1033 Sampler _____
 (H) Final Hydrostatic 1976 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 30 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1493.25 Sub Total 0
 Total 1493.25 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64640

Well Name & No. JAB Wilkinson #1 Test No. 3 Date 3/11/2016
 Company Palomina Petroleum, Inc Elevation 3161 KB 3155 GL
 Address 4924 SE 84th St. Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WW #2
 Location: Sec. 21 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4174 4235 Zone Tested LKC 2-5
 Anchor Length 61 Drill Pipe Run 4060 Mud Wt. 9.2
 Top Packer Depth 4169 Drill Collars Run 119 Vis 51
 Bottom Packer Depth 4174 Wt. Pipe Run 0 WL 7.2
 Total Depth 4235 Chlorides _____ ppm System LCM 1#

Blow Description IF BOB @ 2 min
IS No return
FF BOB @ 2 min
FSI No return

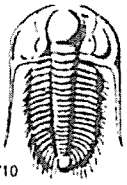
Rec	Feet of	%gas	%oil	%water	%mud
<u>800</u>	<u>MCW</u>			<u>85</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 800 BHT 116 Gravity — API RW .280 @ 48 °F Chlorides 53000 ppm
 (A) Initial Hydrostatic 2124 Test 1150 T-On Location 0560
 (B) First Initial Flow 120 Jars 250 T-Started 0512
 (C) First Final Flow 275 Safety Joint 75 T-Open 0703
 (D) Initial Shut-In 1197 Circ Sub N/C T-Pulled 0823
 (E) Second Initial Flow 264 Hourly Standby _____ T-Out 1014
 (F) Second Final Flow 393 Mileage 2547 18.75 Comments _____
 (G) Final Shut-In 1190 Sampler _____
 (H) Final Hydrostatic 2047 Straddle _____

Initial Open 10 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 10 Extra Copies _____
 Final Shut-In 30 Extra Recorder _____
 Sub Total 0
 Total 1493.75
 MP/DST Disc't _____
 Sub Total 1493.75

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64641

Well Name & No. J&B Wilkinson #1 Test No. 4 Date 3/12/2016
 Company Palomino Petroleum, Inc Elevation 3161 KB 3155 GL
 Address 4924 SE 84th St Newton, KS
 Co. Rep / Geo. Ryan Seib Rig WW #2
 Location: Sec. 21 Twp. 17s Rge. 34w Co. Scott State KS

Interval Tested 4242 - 4340 Zone Tested LKC R&L
 Anchor Length 96' Drill Pipe Run 4120 Mud Wt. 9.3
 Top Packer Depth 4237 Drill Collars Run 119 Vis 50
 Bottom Packer Depth 4242 Wt. Pipe Run 0 WL 8.0
 Total Depth 4340 Chlorides 5500 ppm System LCM 2#

Blow Description TF: BOB @ 45 sec
ISI: No return
FF: BOB @ 1 min.
PSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1770</u>	<u>new</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

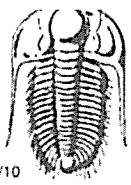
Rec Total 1770 BHT 117 Gravity — API RW .220 @ 51 °F Chlorides 49,000 ppm

(A) Initial Hydrostatic <u>2150</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2000</u>
(B) First Initial Flow <u>324</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2008</u>
(C) First Final Flow <u>605</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2226</u>
(D) Initial Shut-In <u>1222</u>	<input checked="" type="checkbox"/> Circ Sub <u>W/C</u>	T-Pulled <u>2346</u>
(E) Second Initial Flow <u>666</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0158 3/12</u>
(F) Second Final Flow <u>440</u>	<input checked="" type="checkbox"/> Mileage <u>25.25</u> <u>18.75</u>	Comments
(G) Final Shut-In <u>1222</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2120</u>	<input type="checkbox"/> Straddle	

Initial Open <u>10</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Ruined Packer
Final Flow <u>10</u>	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	Sub Total <u>0</u>
	Total <u>1493.75</u>
	MP/DST Disc't
Sub Total <u>1493.75</u>	

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64642

Well Name & No. J & B Wilkinson #1 Test No. 5 Date 3/12/2016
 Company Palomino Petroleum, Inc Elevation 3161 KB 3155 GL
 Address 4924 SE 84th St Newton, ks 67114
 Co. Rep / Geo. Ryan Seib Rig WW #2
 Location: Sec. 21 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4369-4480 Zone Tested Munaton
 Anchor Length 111 Drill Pipe Run 4250 Mud Wt. 9.3
 Top Packer Depth 4364 Drill Collars Run 119 Vis 5.7
 Bottom Packer Depth 4369 Wt. Pipe Run 0 WL 7.6
 Total Depth 4480 Chlorides 4,000 ppm System LCM 2#

Blow Description IF 6" blow
ISI Surface return died @ 15 min.
FF 6" blow.
FSI Surface return died @ 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>6 MCO</u>	<u>30</u>	<u>60</u>	<u>10</u>	<u>0</u>
<u>70</u>	<u>6 MCO</u>	<u>30</u>	<u>40</u>	<u>30</u>	<u>0</u>
<u> </u>	<u>190' GIP</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 190 BHT 113 Gravity 20 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2263 Test 1150 T-On Location 1548
 (B) First Initial Flow 34 Jars 250 T-Started 1548
 (C) First Final Flow 65 Safety Joint 75 T-Open 1755
 (D) Initial Shut-In 1161 Circ Sub T-Pulled 1955
 (E) Second Initial Flow 86 Hourly Standby T-Out 2156
 (F) Second Final Flow 91 Mileage 25.2 37.50 Comments 0/0 Tools
 (G) Final Shut-In 1122 Sampler @ 1930 on 3/14
 (H) Final Hydrostatic 2191 Straddle

Shale Packer 250 Ruined Shale Packer
 Extra Packer Ruined Packer
 Extra Recorder Extra Copies
 Day Standby 1.5d 10h Sub Total 800
 Accessibility Total 1762.50
 Sub Total 1762.50 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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