



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: 3/10/2015
 Invoice # 1396

P.O.#:

Due Date: 4/9/2015

Division: Russell

RECEIVED

MAR 16 2015

Invoice

Contact:

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

Reference:

LDS 1

Description of Work:

SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 887.76	No				
Common-Class A	120	\$ 1,925.00	Yes				
Calcium Chloride	6	\$ 324.68	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 307.22	No				
POZ Mix-Standard	30	\$ 183.75	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 145.54	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 85.17	No				
Premium Gel (Bentonite)	3	\$ 47.48	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,906.60

Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (585.99)

SubTotal for Taxable Items: \$ 2,108.78

SubTotal for Non-Taxable Items: \$ 1,211.83

Total: \$ 3,320.61

Tax: \$ 161.32

7.65% Logan County Sales Tax

Amount Due: \$ 3,481.93

Applied Payments:

Balance Due: \$ 3,481.93

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. 1998

Date 3-10-15	Sec. 19	Twp. 13	Range 32	County Logan	State KS	On Location	Finish 5:30 PM
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Location Oakley 13 S to Quail Rd, 3W, 1S 1/2 W, S1/2

Lease LDS	Well No. 1	Owner
Contractor WW 8		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.
Type Job Surface		Charge To Palomino petroleum
Hole Size 12 1/4	T.D. 220'	Street
Csg. 8 3/8	Depth 225'	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint 20'	Cement Amount Ordered 150 sk 80/20, 3% cc, 2% gel
Meas Line	Displace 13661	

EQUIPMENT

Pumptrk 5	No.	Cementer	Common 120
		Helper Lonnie	Poz. Mix 30
Bulktrk 9	No.	Driver Ryan	Gel. 3
		Driver Travis	Calcium 6

JOB SERVICES & REMARKS

Remarks: cement did circulate	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 158
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

	Pumptrk Charge Surface	Tax
	Mileage 15	Discount
		Total Charge

X Signature



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
3/19/2015	28247

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

- Acidizing
- Cement
- Tool Rental

RECEIVED
MAR 21 2015

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	LDS	Logan	WW Drilling	Oil	Development	Cement LongStri...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
578D-L	Pump Charge - Long String				1	Job	1,250.00	1,250.00
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	300.00	300.00T
409-5	5 1/2" Turbolizer				12	Each	75.00	900.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	15.75	1,968.75T
325	Standard Cement				100	Sacks	12.25	1,225.00T
284	Calseal				5	Sack(s)	30.00	150.00T
283	Salt				500	Lb(s)	0.20	100.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				50	Lb(s)	2.25	112.50T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				3	Gallon(s)	42.00	126.00T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				914	Ton Miles	0.75	685.50
	Subtotal							11,930.25
	Sales Tax Logan County						7.65%	708.18

We Appreciate Your Business!	Total	\$12,638.43
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CHARGE TO: Palumbo Petroleum
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 28247
 PAGE 1 OF 2

SERVICE LOCATIONS
 1. 1000 City KS WELL/PROJECT NO. #1 LEASE LDS COUNTY/PARISH Logan STATE KS CITY Dakley DATE 19 MAR 15 OWNER _____
 2. TICKET TYPE SERVICE CONTRACTOR _____ RIG NAME/NO. 8 SHIPPED VENT DELIVERED TO location ORDER NO. _____
 3. WELL TYPE DEV WELL CATEGORY new JOB PURPOSE Developments cement long string WELL PERMIT NO. _____ WELL LOCATION 19-13-32
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
575		1			TRC 114	80	mi			5.00	400.00
578		1			Pump Charge	1	ea			1250.00	1250.00
403		1			Cement Basket	5 1/2	in	2	ea	250.00	500.00
404		1			Port Collar	5 1/2	in	1	ea	2500.00	2500.00
406		1			Latch down plug & basket	5 1/2	in	1	ea	225.00	225.00
407		1			Inset Flat shoe w/ AWD FILL	5 1/2	in	1	ea	300.00	300.00
409		1			TU Noeline	5 1/2	in	12	ea	75.00	900.00
419		1			Rotating head rental	5 1/2	in	1	ea	200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	6275.00
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	516.55
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5-ub to total	11930.25
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Logan TAX 7.165%	708.18
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TOTAL	12638.43

DATE SIGNED Alan Blahel TIME SIGNED 3:45
 A.M. P.M.

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES
 APPROVAL RBW

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR _____
 SWIFT OPERATOR _____
 Thank You!



PO Box 466
 Ness City, KS 67560
 Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 28247

CUSTOMER *Platinum Petroleum*

WELL *LDS #1*

DATE *19 APR 15* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M		
330						SMD cement	125	sk	15.75	1968.75
325						STANDARD cement (for 24-2)	100	sk	18.25	1825.00
284						CalSeal	500	lb	30.00	15000.00
283						salt	500	lb	0.20	100.00
285						CFR-1	50	lb	4.50	225.00
276						Fluocel	52	lb	2.25	117.50
281						MudFlush	500	gal	1.25	625.00
281						KCL Liquid	4	gal	25.00	100.00
290						D-Air	3	gal	42.00	126.00
581						SERVICE CHARGE				337.50
583						MILEAGE CHARGE				685.50
						TOTAL WEIGHT	225			
						LOADED MILES	80			
						TOTAL MILES	914			

CONTINUATION TOTAL 5655.25

JOB LOG

SWIFT Services, Inc.

DATE 19 MAR 15 PAGE NO.

CUSTOMER Palandino Petroleum WELL NO. #1 LEASE LDS JOB TYPE cement long string TICKET NO. 28247

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								125 sks SMD cement / 1/4" floccle 100 sks EA-2 cement / 1/4" floccle 5 1/2" x 14" casing 110, ts 4799' sholejt 44.75' Centralizer 1, 3, 4, 6, 8, 10, 12, 13, 14, 16, 18. 54 Bisbet 2, 55 Port Collar '55 2490'
	1830							on loc TRK 114
	1855							start 5 1/2" x 14" casing in well
	2100							Drop ball - circulate - ROTATE
	2200	4	12				200	Pump 500 gal mid flush
		4	20				200	Pump 20 bbl KCL flush
			5					Plug RH - 30sk
	2216	4	40				200	mix SMD cement 95sk @ 12.7 ppg
		4	21				200	mix EA-2 cement 100sk @ 15.3 ppg
	2235							Drop latch down plug wash out pump & line
	2240	6					200	Displace Plug (KCL in first 20 bbl)
		6	88				400	
		6	110				950	
	2300	6	116				1500	Land Plug Release pressure to truck - dried up
	2305							wash truck
								Rack up
	2335							job complete flum Blive, Flint & 15000

SWIFT



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

RECEIVED
MAR 30 2015

Invoice

DATE	INVOICE #
3/26/2015	28355

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	LDS	Logan	Express Well Serv...	Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
576D-D	Pump Charge - Port Collar				1	Job	1,250.00	1,250.00
330	Swift Multi-Density Standard (MIDCON II)				250	Sacks	15.75	3,937.50T
276	Flocele				75	Lb(s)	2.25	168.75T
290	D-Air				2	Gallon(s)	42.00	84.00T
104	Port Collar Tool Rental				1	Each	200.00	200.00T
581D	Service Charge Cement				300	Sacks	1.50	450.00
583D	Drayage				1,194.12	Ton Miles	0.75	895.59
	Subtotal							7,385.84
	Sales Tax Logan County						7.65%	335.85

We Appreciate Your Business!

Total

\$7,721.69

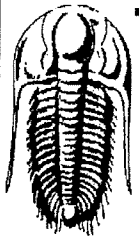
JOB LOG

SWIFT Services, Inc.

DATE 26 MAR 15 PAGE NO.

CUSTOMER Paramo Petroleum WELL NO. #1 LEASE CDs JOB TYPE Cement port collar TICKET NO. 28355

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								300 SMD cement w/ 1/4" floccide 2 3/8 x 5 1/2 port collar - 2492'
	1700							on loc TRK 114 Running tubing
	1322					1000	1000	test to 1000 psi - held
	1331							open port collar inj rate 3 1/2 @ 350
		3 1/2	2			350		
	1335	3 1/2				350		mix SMD cement @ 11.2 ppg - fluid to surface -
		3 1/2	6			350		— cement to surface —
		3 1/2	132			450		
								} 250 sk mixed 15 to pit
		3 1/2	13			450		Displace w/ 13 bbl H ₂ O close port collar
	1430					1000	1000	test to 1000 psi - held
	1432							Run 5 joints
	1439							Reverse hole clean - 2 cement plugs
			30					
	1446							wash truck Rack up pull tool
	1515							job complete
								Flint, Blaine, & JARDEN



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

19-13s-32w

4924 SE 84th ST
New ton KS, 67114-8827

LDS #1

Job Ticket: 58537

DST#: 1

ATTN: John Goldsmith

Test Start: 2015.03.15 @ 04:00:00

GENERAL INFORMATION:

Formation: **Kansas City 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:26:00

Time Test Ended: 10:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: **4034.00 ft (KB) To 4070.00 ft (KB) (TVD)**

Reference Elevations: 3062.00 ft (KB)

Total Depth: 4070.00 ft (KB) (TVD)

3057.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8650

Outside

Press@RunDepth: psig @ 4067.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.15

End Date: 2015.03.15

Last Calib.: 2015.03.15

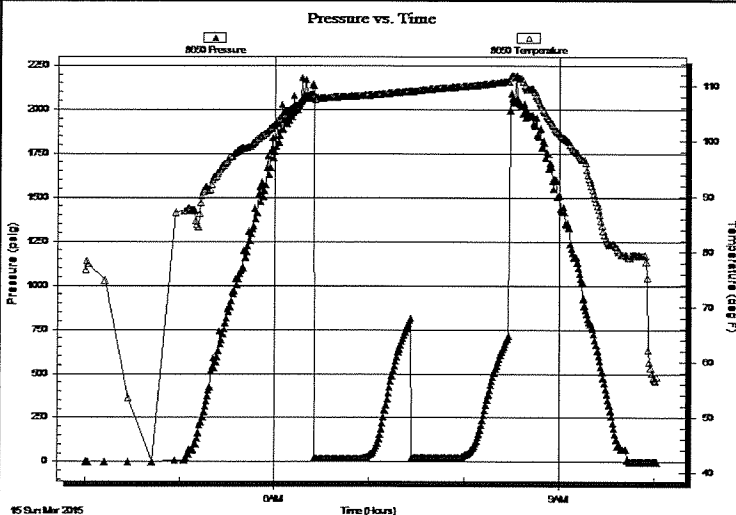
Start Time: 04:00:15

End Time: 10:01:45

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 1" blow
No return blow
No blow
No return blow



PRESSURE SUMMARY

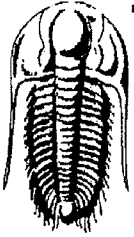
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
1.00	Clean Oil	0.00
14.00	0cm 2%O 98%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

19-13s-32w

4924 SE 84th ST
New ton KS, 67114-8827

LDS #1

Job Ticket: 58537

DST#: 1

ATTN: John Goldsmith

Test Start: 2015.03.15 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 63.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 2500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Clean Oil	0.005
14.00	0cm 2%O 98%M	0.069

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

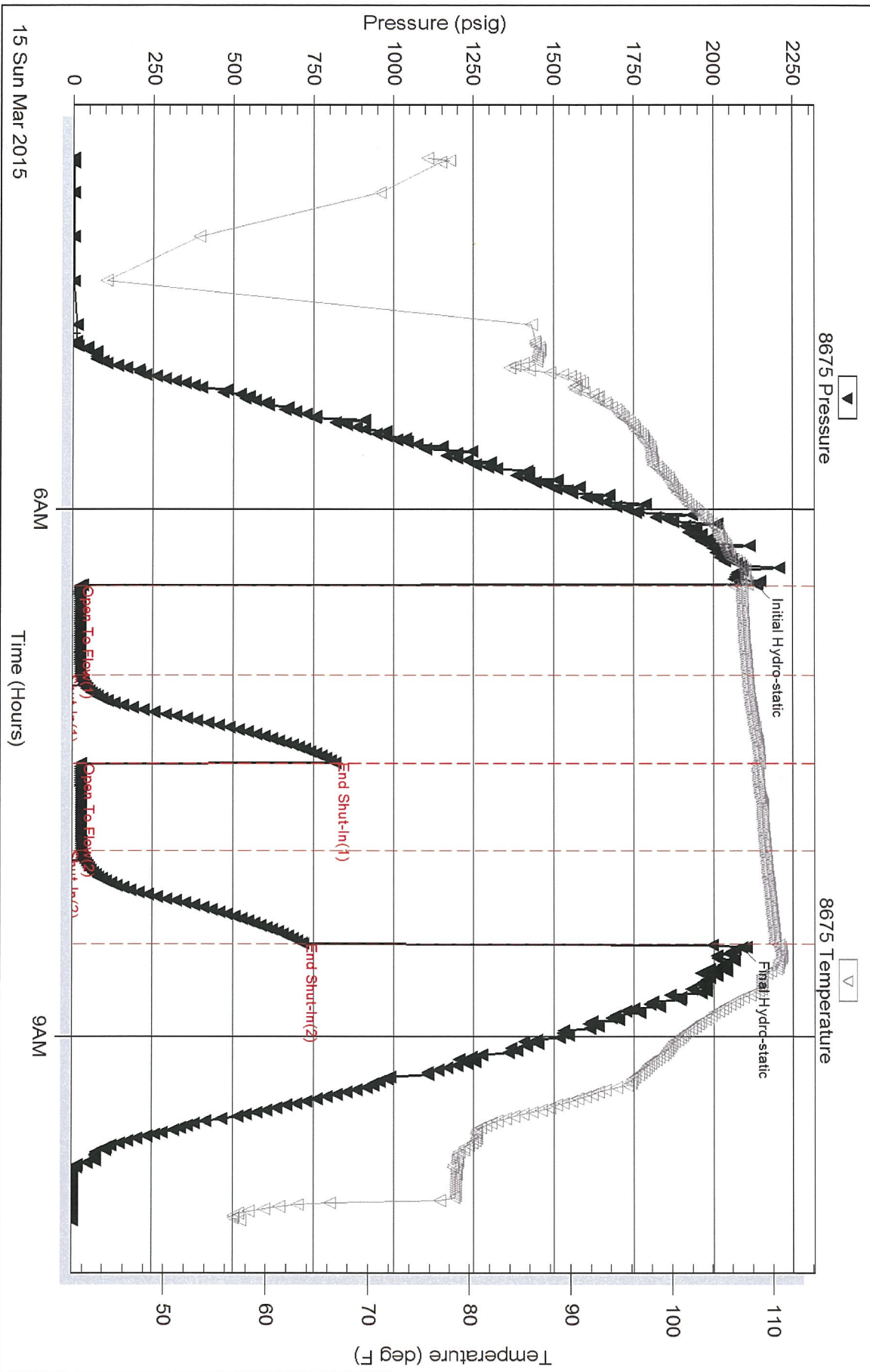
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



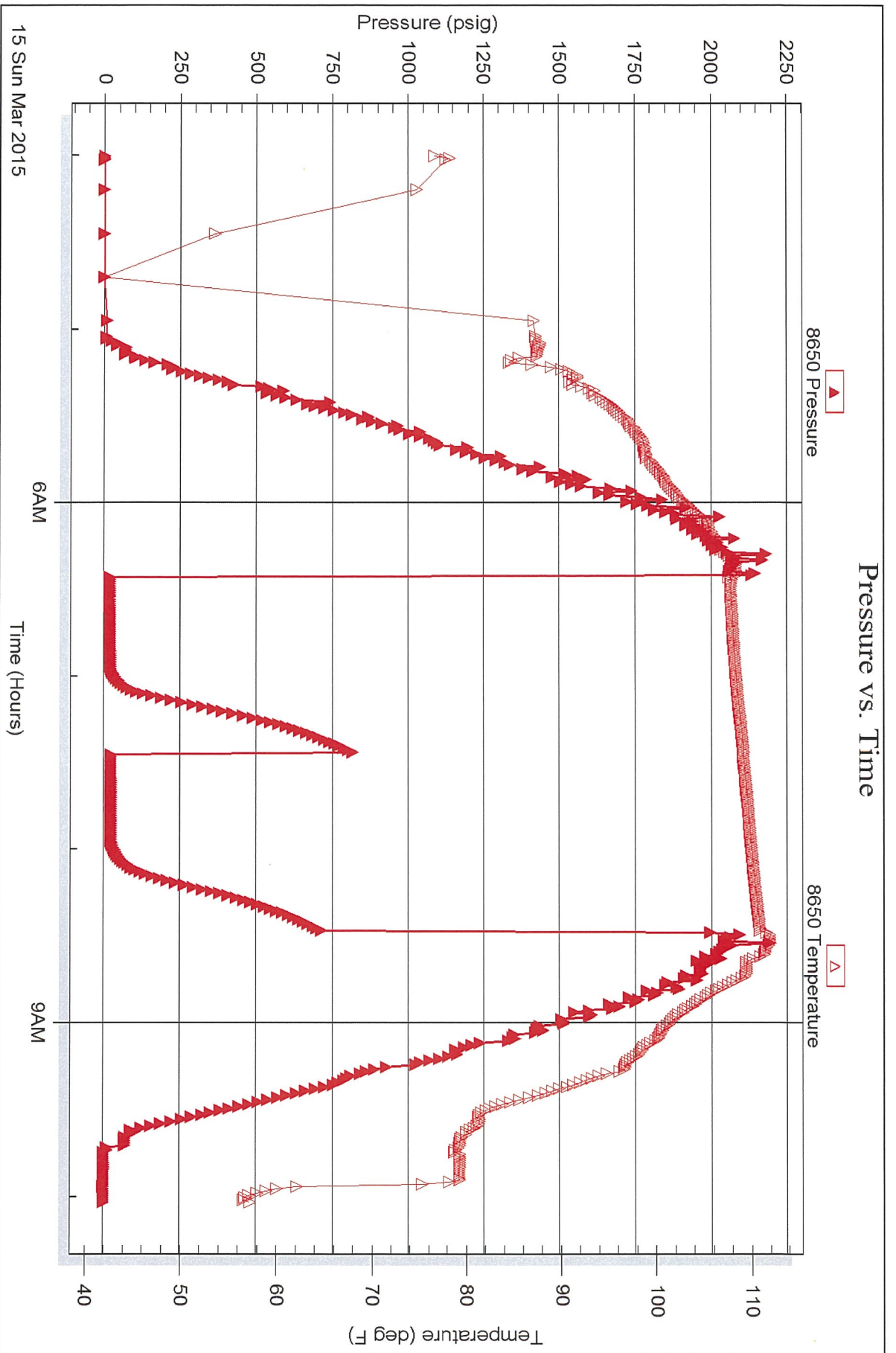
Serial #: 8650

Outside

Palomino Petroleum, Inc.

LDS #1

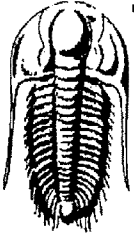
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 58537

Printed: 2015.03.15 @ 16:43:26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.
4924 SE 84th ST
New ton KS, 67114-8827
ATTN: John Goldsmith

19-13s-32w
LDS #1
Job Ticket: 58538 **DST#: 2**
Test Start: 2015.03.15 @ 17:00:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

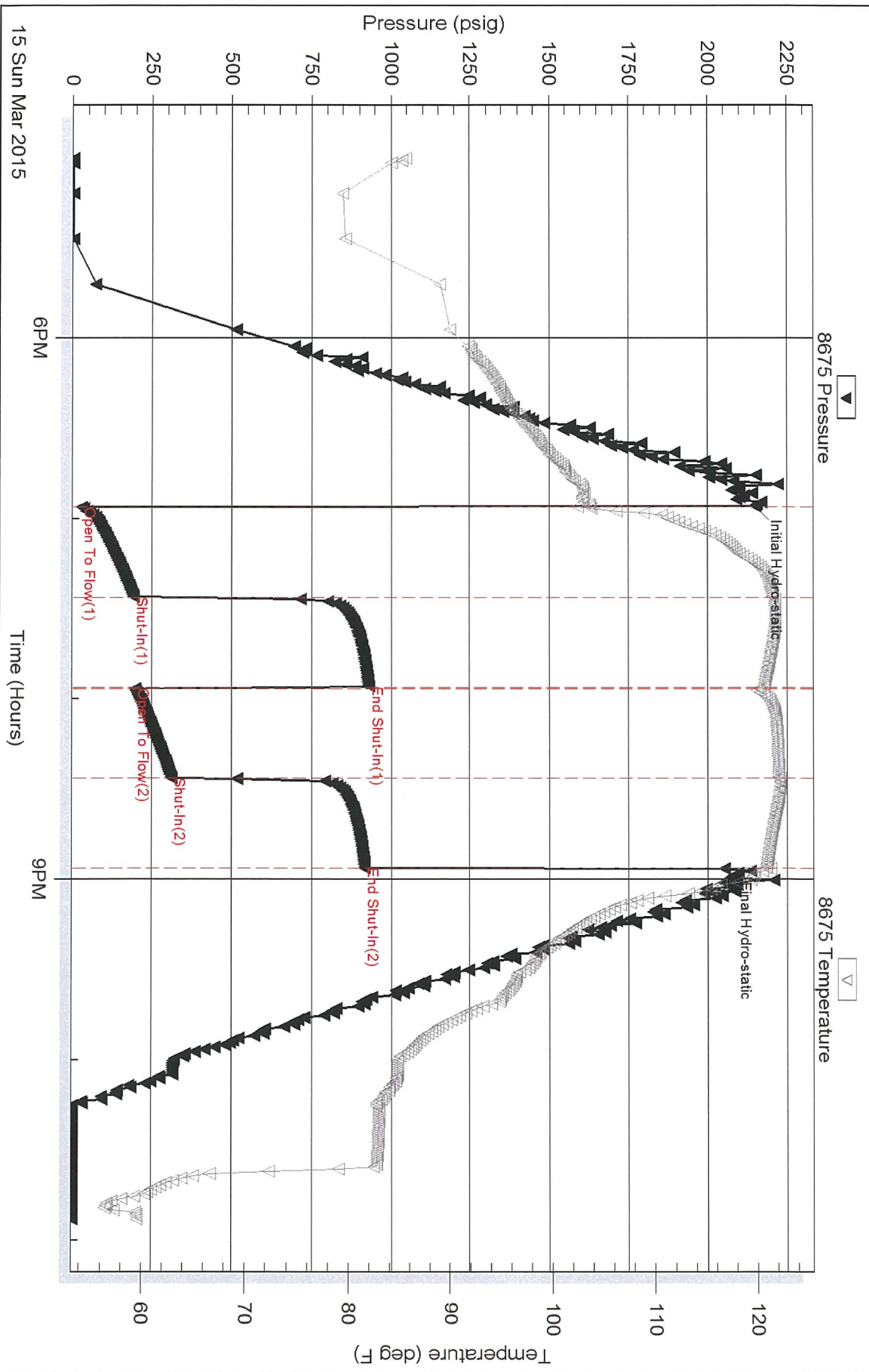
Recovery Information

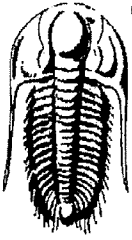
Recovery Table

Length ft	Description	Volume bbl
435.00	100% Water	5.008
141.00	mcw 40%M 60%W	1.978

Total Length: 576.00 ft Total Volume: 6.986 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW: .20 @ 60 = 42,000

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.
4924 SE 84th ST
New ton KS, 67114-8827
ATTN: John Goldsmith

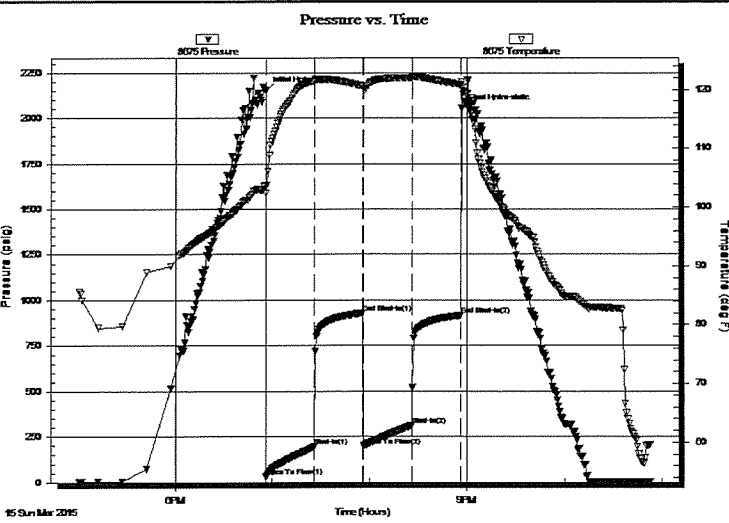
19-13s-32w
LDS #1
Job Ticket: 58538 **DST#: 2**
Test Start: 2015.03.15 @ 17:00:00

GENERAL INFORMATION:

Formation: **Kansas City 'K'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:56:00
Time Test Ended: 22:53:15
Interval: **4366.00 ft (KB) To 4304.00 ft (KB) (TVD)**
Total Depth: 4304.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 75
Reference Elevations: 3062.00 ft (KB)
3057.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8675 Inside
Press@RunDepth: 312.91 psig @ 4301.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.03.15 End Date: 2015.03.15 Last Calib.: 2015.03.15
Start Time: 17:00:15 End Time: 22:53:15 Time On Btm: 2015.03.15 @ 18:55:45
Time Off Btm: 2015.03.15 @ 20:56:30

TEST COMMENT: B.O.B. in 9 1/2 min
Bled off for 5 min, No return blow
B.O.B. in 12 min
Bled off for 5 min, No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.48	103.66	Initial Hydro-static
1	29.78	102.45	Open To Flow (1)
31	195.08	121.48	Shut-In(1)
61	929.35	120.59	End Shut-In(1)
61	198.68	120.16	Open To Flow (2)
91	312.91	122.05	Shut-In(2)
121	916.74	120.83	End Shut-In(2)
121	2052.12	121.27	Final Hydro-static

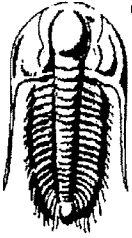
Recovery

Length (ft)	Description	Volume (bbl)
435.00	100% Water	5.01
141.00	mcw 40%M 60%W	1.98

* 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.
4924 SE 84th ST
New ton KS, 67114-8827
ATTN: John Goldsmith

19-13s-32w
LDS #1
Job Ticket: 58538 **DST#: 2**
Test Start: 2015.03.15 @ 17:00:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

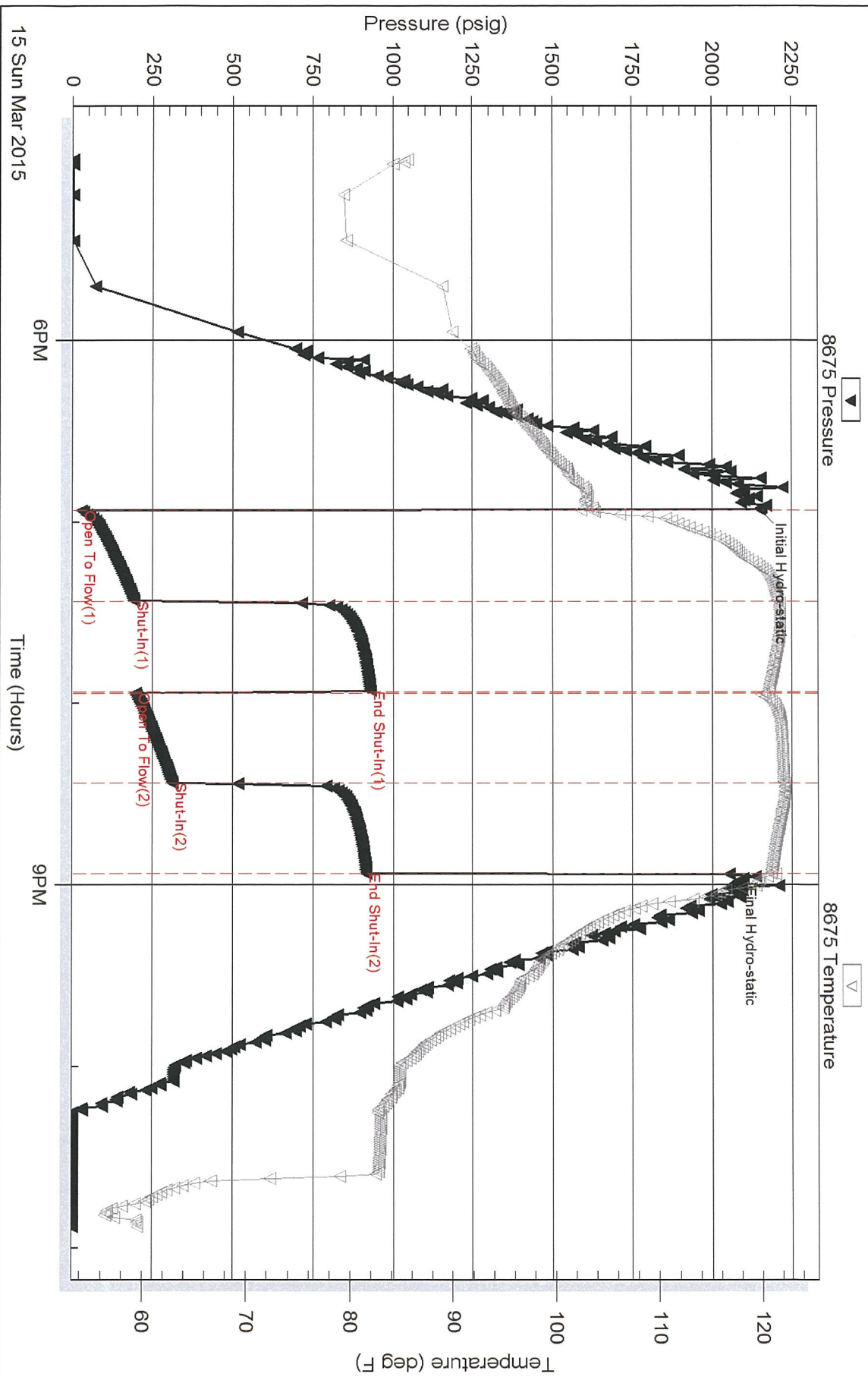
Recovery Information

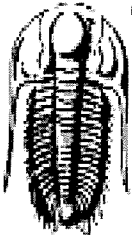
Recovery Table

Length ft	Description	Volume bbl
435.00	100% Water	5.008
141.00	mchw 40%M 60%W	1.978

Total Length: 576.00 ft Total Volume: 6.986 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW: .20 @ 60 = 42,000

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.
4924 SE 84th ST
New ton KS, 67114-8827
ATTN: John Goldsmith

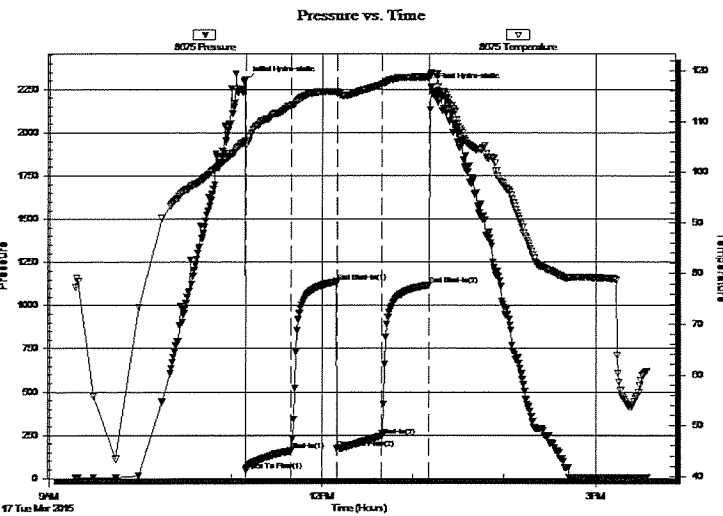
19-13s-32w
LDS #1
Job Ticket: 58539 **DST#: 3**
Test Start: 2015.03.17 @ 09:17:00

GENERAL INFORMATION:

Formation: **Johnson Zone**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:09:45
Time Test Ended: 15:34:00
Interval: **4556.00 ft (KB) To 4624.00 ft (KB) (TVD)**
Total Depth: 4624.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 75
Reference Elevations: 3062.00 ft (KB)
3057.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8675 Inside
Press@RunDepth: 243.51 psig @ 4574.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.03.17 End Date: 2015.03.17 Last Calib.: 2015.03.17
Start Time: 09:17:15 End Time: 15:34:00 Time On Btm: 2015.03.17 @ 11:09:15
Time Off Btm: 2015.03.17 @ 13:11:45

TEST COMMENT: B.O.B. in 6 1/2 min.
Bled off for 5 min, Built to 6" return blow
B.O.B. in 2 min.
Bled off for 5 min, B.O.B. in 26 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2303.86	106.14	Initial Hydro-static
1	47.61	105.47	Open To Flow (1)
31	159.91	113.13	Shut-In(1)
61	1138.37	115.83	End Shut-In(1)
61	173.11	115.45	Open To Flow (2)
91	243.51	117.21	Shut-In(2)
122	1118.21	118.72	End Shut-In(2)
123	2262.04	119.11	Final Hydro-static

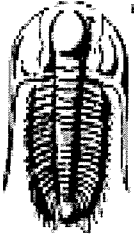
Recovery

Length (ft)	Description	Volume (bbl)
183.00	mcgo 20%M 30%G 50%O	1.47
189.00	mcgo 10%M 20%G 70%O	2.65
189.00	gcmo 10%G 40%M 50%O	2.65
0.00	1008 Feet Of Weak Gas In Pipe	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.
4924 SE 84th ST
New ton KS, 67114-8827
ATTN: John Goldsmith

19-13s-32w
LDS #1
Job Ticket: 58539 **DST#: 3**
Test Start: 2015.03.17 @ 09:17:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 29 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3600.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
183.00	mcgo 20%M 30%G 50%O	1.473
189.00	mcgo 10%M 20%G 70%O	2.651
189.00	gcmo 10%G 40%M 50%O	2.651
0.00	1008 Feet Of Weak Gas In Pipe	0.000

Total Length: 561.00 ft Total Volume: 6.775 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: API: 28 @ 50 F = 29

