



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



RECEIVED

MAY 10 2014

Invoice

DATE	INVOICE #
5/5/2014	26272

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	#2	Betty Betz	Ness	Cheyenne Well Se...	Oil	Development	Cement Port Collar	Jason

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	20	Miles	6.00	120.00
576D-D	Pump Charge - Port Collar	1	Job	1,500.00	1,500.00
105	Port Collar Tool Rental With Man	1	Each	350.00	350.00T
276	Flocele	50	Lb(s)	2.50	125.00T
330	Swift Multi-Density Standard (MIDCON II)	175	Sacks	18.50	3,237.50T
581D	Service Charge Cement	175	Sacks	2.00	350.00
582D	Minimum Drayage Charge	1	Each	250.00	250.00
	Subtotal				5,932.50
	Sales Tax Ness County			6.15%	228.32

We Appreciate Your Business!	Total	\$6,160.82
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CHARGE TO: **PALMWOOD PETROLEUM**
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET **26272**
 PAGE 1 OF 1

1. SERVICE LOCATIONS: **Ness City, KS** WELL/PROJECT NO. **Betty Berez** LEASE **Betty Berez** COUNTY/PARISH **Ness** STATE **KS** CITY **RAZINE, KS** DATE **5 May 14** OWNER
 2. TICKET TYPE: SERVICE SALES CONTRACTOR **Chemene Well Serv.** RIG NAME/NO.
 3. WELL TYPE **DIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **CEMENT PORT COLLAR** SHIPPED VIA **DELIVERED TO** ORDER NO.
 4. REFERRAL LOCATION **DIL** WELL PERMIT NO. **2W, 3&S, E AUTO** WELL LOCATION
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575				MILEAGE B115	20	mi			6.00	1200
576AD				Pump charge	1	job			1500	1500
105				PORT COLLAR DRESSING TOL	1	job			350	350
276				FLOCCLE	50	lbs			2.50	125
330				SMD CEMENT	175	5x			18.50	3237.50
581				CEMENT SERVICE CHARGE	175				2.00	350
382				Minimum Drayage	17400	lbs		174.00	3.00	52200

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

DATE SIGNED: **5 May 14** TIME SIGNED: **1030** A.M. P.M.

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: **5932**
 TAX: **6.15%**
 TOTAL: **6160.85**

SWIFT OPERATOR: **Paul Stovall** APPROVAL: **Paul Stovall**

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You.



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



Invoice

DATE	INVOICE #
4/25/2014	26262

RECEIVED

APR 26 2014

- Acidizing
- Cement
- Tool Rental

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

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Betty Betz	Ness	Pickrell Drilling #10	Oil	Development	Cement 5-1/2" L...	David
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				20	Miles	6.00	120.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
409-5	5 1/2" Turbolizer				9	Each	90.00	810.00T
403-5	5 1/2" Cement Basket				2	Each	300.00	600.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
404-5	5 1/2" Port Collar				1	Each	2,900.00	2,900.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				100	Sacks	14.50	1,450.00T
284	Calseal				5	Sack(s)	35.00	175.00T
283	Salt				500	Lb(s)	0.20	100.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				50	Lb(s)	2.50	125.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	18.50	2,312.50T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				4	Gallon(s)	42.00	168.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							12,760.50
	Sales Tax Ness County						6.15%	642.09

We Appreciate Your Business!

Total

\$13,402.59



CHARGE TO: Palomino Petroleum
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 26262

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Uss Cl, KS</u>	WELL/PROJECT NO. <u>#2</u>	LEASE <u>Betty Belz</u>	COUNTY/PARISH <u>Uss</u>	STATE <u>KS</u>	CITY <u>Bazine</u>	DATE <u>4-25-14</u>	OWNER
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Richard Drilling</u>	RIG NAME/NO. <u>#10</u>	SHIPPED <u>VT</u>	DELIVERED TO <u>Location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2" Longstring</u>	WELL LOCATION <u>Bazine 1/8 - 2w 255 Eimb</u>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE FERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE			20	mi	6.00	120.00
578					Pump Charge - Longstring	1	job			1500.00	1500.00
409					Turbolizer	5 1/2	in	9	ea	90.00	810.00
403					Cement Basket	5 1/2	in	2	ea	300.00	600.00
406					Latch Down Plug + Baffle	5 1/2	in	1	ea	275.00	275.00
407					Insert Float Shoe w/ Auto Fill	5 1/2	in	1	ea	375.00	375.00
404					Port Collar	5 1/2	in	1	ea	2900.00	2900.00
419					Rotating Head Rental	5 1/2	in	1	job	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

DATE SIGNED 4-25-14 TIME SIGNED 0500

Alan [Signature]

SWIFT OPERATOR David Kushn

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

APPROVAL

REMIT PAYMENT TO:

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

SURVEY	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 SERVICES?	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	#1	6780.00
									#2	5980.50	
									TOTAL	13,402.50	

Thank You!



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

TICKET CONTINUATION

Ticket No. 26262

CUSTOMER: Pelomino Petroleum

WE: Betty Betz # 2

DATE: 4-25-14

PAGE: 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		QTY	U/M		UNIT PRICE	AMOUNT			
		LOC	ACCT	DF			QTY	U/M	QTY	U/M								
325		1				Standard Cement					100	sk		14.50	1450.00			
284		1				Calsol	5	%			5	sk		35.00	175.00			
283		1				Salt	10	%			500	lbs		00.20	100.00			
285		1				CFR-1	1/2	%			50	lbs		4.50	225.00			
276		1				Flocel	1/4	lbs			50	lbs		2.50	125.00			
330		1				SMD Cement					125	sk		18.50	2312.50			
281		1				Mixed Flash					500	gal		1.25	625.00			
221		1				Liquid 15CL	4	gal			4	gal		25.00	100.00			
290		1				D-Air	4	gal			4	gal		42.00	168.00			
582		1				Minimum Drayage Charge					1	ea		250.00	250.00			
581		1				Minimum Drayage Charge					225			2.00	450.00			
MILEAGE CHARGE															TOTAL WEIGHT	LOADED MILES	CUBIC FEET	TON MILES
MILEAGE CHARGE																		

CONTINUATION TOTAL 5980.50

JOB LOG

SWIFT Services, Inc.

DATE 4-25-14 PAGE NO.

CUSTOMER Palomino Petroleum WELL NO. #2 LEASE Betty Betz JOB TYPE Cement 5 1/2" Longstring TICKET NO. 26262

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0000							on Location
								RTD- 4456 107 jts of 5 1/2" 14"
								JP- 4456 Set @ 4455
								SJ- 42.11 P.C #71 1485'
								Centralizer - 1, 2, 3, 5, 7, 9, 11, 13, 70
								Basket - 2, 71
								100 sks EA-2 w/ 1/4 Flo 125 sks SMD w/ 1/4 Flo
	0100							Start 5 1/2" 14" Casing in well
	0255							Drop Ball Circulate - Rotate -
	0400	6 1/2	12			350		Pump 500 gal Mud Flush
		6 1/2	20			350		Pump 20 bbl KCL Flush
			11					Plug RH - 30 sks -
	0412	4 1/2	35			200		mix 95 sks SMD @ 12.7 ppg
		4 1/2	24			200		mix 100 sks EA-2 @ 15.5 ppg
								wash out Pump + Line
								Release Latch Down Plug
	0437	6 1/2	0			100		Start Displacement
		6 1/2	80			400		LiA Pressure
		6 1/2	107			900		Max Lift Pressure
	0500	6 1/2	107.7			1500		Land Latch Down Plug
								Release PSI - Hold -
								wash up trucks
	0530							Job Complete

Thank You
Dave Juan Jarred



RECEIVED

APR 26 2014

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 142703

Invoice Date: Apr 17, 2014

Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

Bill To:
Palomino Petroleum, Inc. 4924 SE 84th St Newton, KS 67114-8827

Customer ID	Field Ticket #	Payment Terms	
Palo	62914	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Apr 17, 2014	5/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Betty Betz #2		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
3.00	CEMENT MATERIALS	Gel	23.40	70.20
493.00	CEMENT MATERIALS	Chloride	0.80	394.40
189.23	CEMENT SERVICE	Cubic Feet Charge	2.48	469.29
129.53	CEMENT SERVICE	Ton Mileage Charge	2.60	336.78
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
15.00	CEMENT SERVICE	Pump Truck Mileage	7.70	115.50
15.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	66.00
1.00	CEMENT SUPERVISOR	Dustin Chambers		
1.00	OPERATOR ASSISTANT	Joshua Ellis		
1.00	OPERATOR ASSISTANT	Kevin Weighous		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 914.54

ONLY IF PAID ON OR BEFORE
May 12, 2014

Subtotal	6,096.92
Sales Tax	221.22
Total Invoice Amount	6,318.14
Payment/Credit Applied	
TOTAL	6,318.14

ALLIE OIL & GAS SERVICE, LLC 062914

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Green Bend, TX
4-18-14

DATE <u>4-17-14</u>	SEC. <u>14</u>	TWP. <u>19S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION <u>6:00pm</u>	JOB START <u>12:00pm</u>	JOB FINISH <u>11:00AM</u>
LEASE <u>Betty Betz</u>	WELL # <u>2</u>	LOCATION <u>Palmer 2W 3S Finto</u>			COUNTY <u>Ness</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Pickrell Drilling #10
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D.
 CASING SIZE 4 5/8 DEPTH 222.99
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15 FT
 PERFS.
 DISPLACEMENT Freshwater

OWNER _____
 CEMENT
 AMOUNT ORDERED 175 sks class A
37cc 2 gel
 COMMON 175 @ 17.90 3,132.50
 POZMIX @ _____
 GEL 3 @ 23.40 70.20
 CHLORIDE 493 @ .80 394.40
 ASC @ _____
 @ _____
 @ _____
 @ 15.90 3,597.10
 @ 539.58
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING 189.23 @ 2.48 469.29
 MILEAGE 8.63 x 1.5x 2.60 336.80

EQUIPMENT
 PUMP TRUCK CEMENTER Dagora Chambers
 # 366 HELPER Tash Ellis
 BULK TRUCK
 # 471-112 DRIVER Karla Weyers
 BULK TRUCK
 # DRIVER

REMARKS:
Pump 566's freshwater ahead
with 175 sks cement
Dr. Place 13.29 hbl's ~~with~~ freshwater
to slush in
Cement to discharge
plug down 12:30 AM 4-18-14
Barj Power

SERVICE
 DEPTH OF JOB 222
 PUMP TRUCK CHARGE 1,512.35
 EXTRA FOOTAGE @ _____
 MILEAGE Hum 15 @ 7.70 115.50
 MANIFOLD @ _____
Hum 15 @ 4.40 66.00
 @ _____

CHARGE TO: Palomina Petroleum
 STREET _____
 CITY _____ STATE _____ ZIP _____

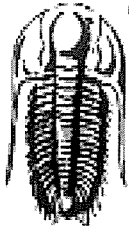
TOTAL 2,499.87
(15%) 374.97

PLUG & FLOAT EQUIPMENT
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 (0%) TOTAL _____

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

PRINTED NAME Mike Kenyon
 SIGNATURE [Signature]
Thank You!

SALES TAX (If Any) _____
 TOTAL CHARGES 6,096.94
914.58
 DISCOUNT _____ IF PAID IN 30 DAYS
\$ 5,182.40



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

Sec. 14-19s-22w, Ness, KS

4924 SE 84th St.
Newton, KS 67114

Betty-Betz #2

Job Ticket: 58876

DST#: 1

ATTN: Ryan Seib

Test Start: 2014.04.22 @ 19:45:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:12:50

Time Test Ended: 03:00:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 49

Interval: **4256.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Reference Elevations: 2233.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

2226.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8898

Outside

Press@RunDepth: 26.29 psig @ 4273.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.22

End Date:

2014.04.23

Last Calib.: 2014.04.23

Start Time: 19:45:01

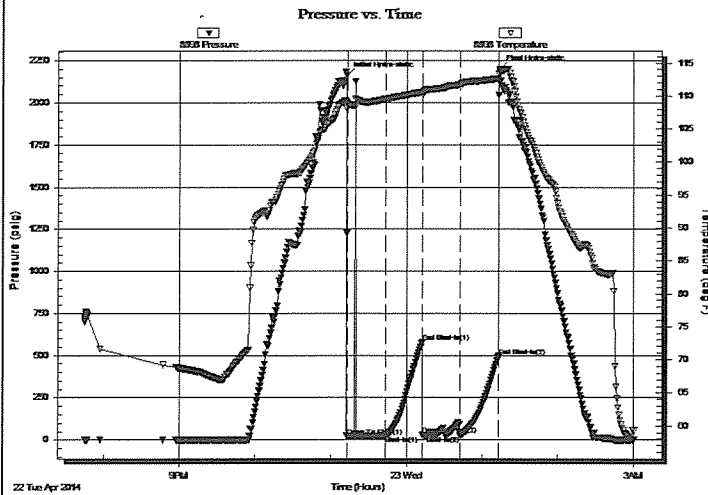
End Time:

03:00:50

Time On Btm: 2014.04.22 @ 23:12:30

Time Off Btm: 2014.04.23 @ 01:14:09

TEST COMMENT: 30-IF-1/4" blow, flushed tool at 23:20, built to 1/2"
30-ISI-No Return
30-FF-No Blow
30-FSI-No Return



PRESSURE SUMMARY

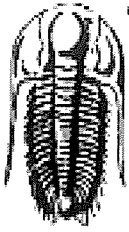
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.92	108.97	Initial Hydro-static
1	21.75	108.11	Open To Flow (1)
31	24.47	109.54	Shut-In(1)
60	580.27	110.56	End Shut-In(1)
61	28.71	110.18	Open To Flow (2)
91	26.29	111.69	Shut-In(2)
121	494.95	112.65	End Shut-In(2)
122	2200.70	113.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	VSOCM, 1%o, 99% m	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

Sec. 14-19s-22w, Ness, KS

4924 SE 84th St.
New ton, KS 67114

Betty-Betz #2

Job Ticket: 58876

DST#: 1

ATTN: Ryan Seib

Test Start: 2014.04.22 @ 19:45:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	VSOCM, 1%o, 99%m	0.281

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

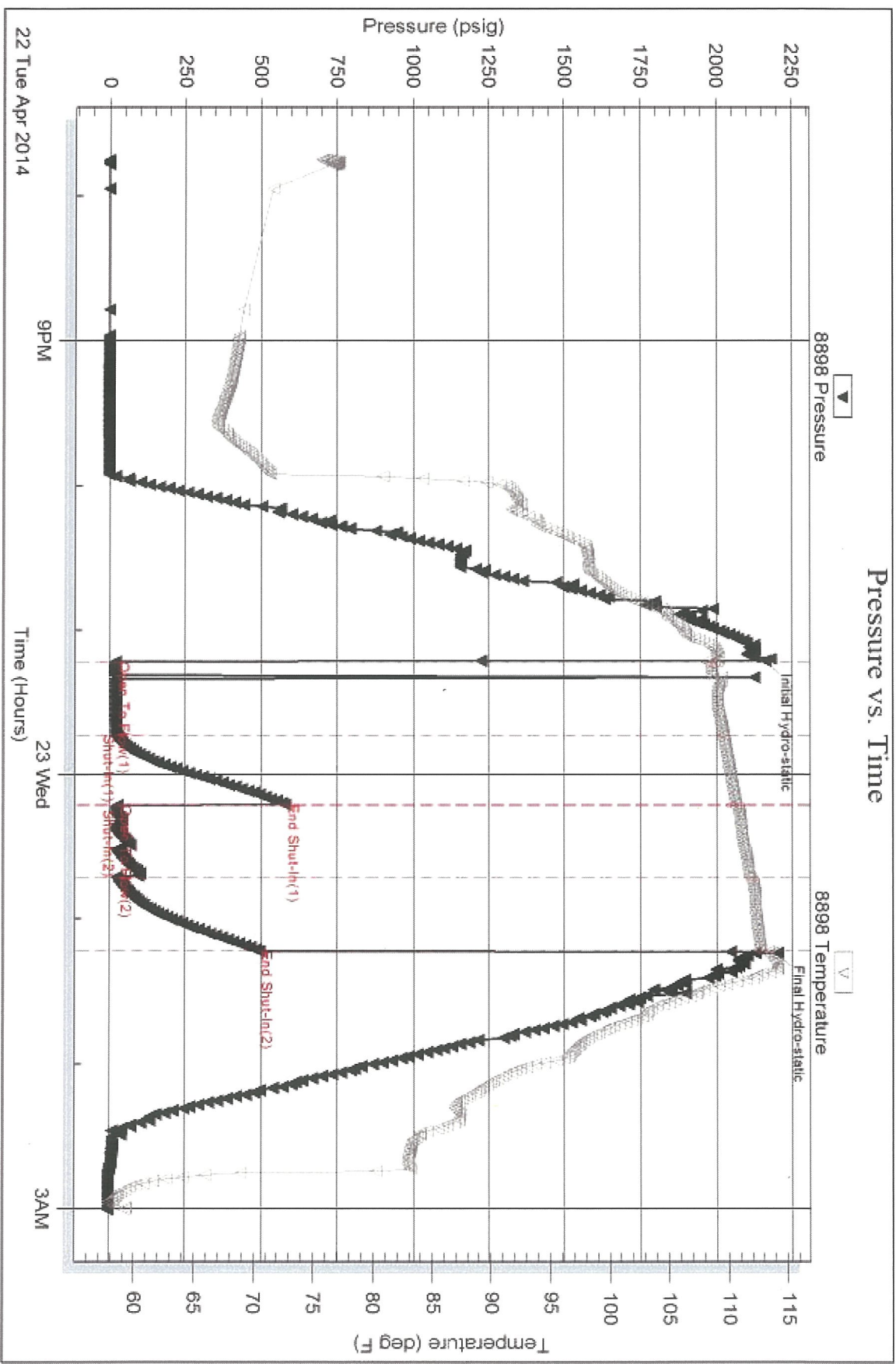
Recovery Comments:

Serial #: 8898

Outside Palomino Petroleum

Betty-Betz #2

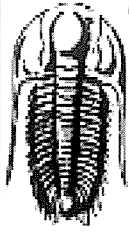
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 59876

Printed: 2014.04.23 @ 07:56:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

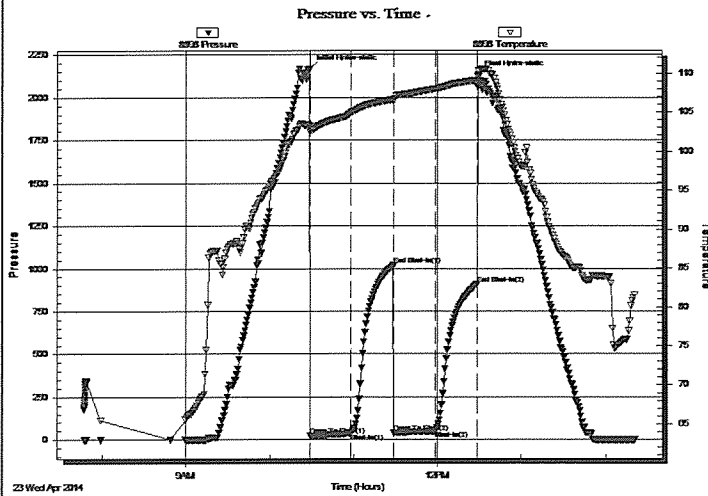
Sec. 14-19s-22w, Ness, KS
Betty-Betz #2
 Job Ticket: 58877 **DST#: 2**
 Test Start: 2014.04.23 @ 07:47:00

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:28:50
 Time Test Ended: 14:20:50
 Interval: **4256.00 ft (KB) To 4256.00 ft (KB) (TVD)**
 Total Depth: 4349.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Phillip Gage
 Unit No: 49
 Reference Elevations: 2233.00 ft (KB)
 2226.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8898 Outside
 Press@RunDepth: 49.60 psig @ 4282.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.23 End Date: 2014.04.23
 Start Time: 07:47:01 End Time: 14:20:50
 Last Calib.: 2014.04.23
 Time On Btm: 2014.04.23 @ 10:28:30
 Time Off Btm: 2014.04.23 @ 12:29:20

TEST COMMENT: 30-IF-Blow built to 4 1/4"
 30-ISI-No Return
 30-FF-Blow built to 4 1/2"
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.40	103.28	Initial Hydro-static
1	22.16	102.46	Open To Flow (1)
30	36.14	104.94	Shut-In(1)
60	1017.74	106.62	End Shut-In(1)
61	40.93	106.36	Open To Flow (2)
90	49.60	107.98	Shut-In(2)
120	908.72	109.11	End Shut-In(2)
121	2132.36	109.87	Final Hydro-static

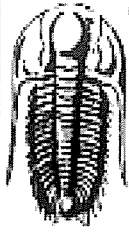
Recovery

Length (ft)	Description	Volume (bbl)
78.00	OCM, 20%o, 80%m	1.09

* 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
4924 SE 84th St.
New ton, KS 67114
ATTN: Ryan Seib

Sec. 14-19s-22w, Ness, KS
Betty-Betz #2
Job Ticket: 58877 **DST#: 2**
Test Start: 2014.04.23 @ 07:47:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
78.00	OCM, 20%o, 80%m	1.094

Total Length: 78.00 ft Total Volume: 1.094 bbl

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

Laboratory Name: Laboratory Location:

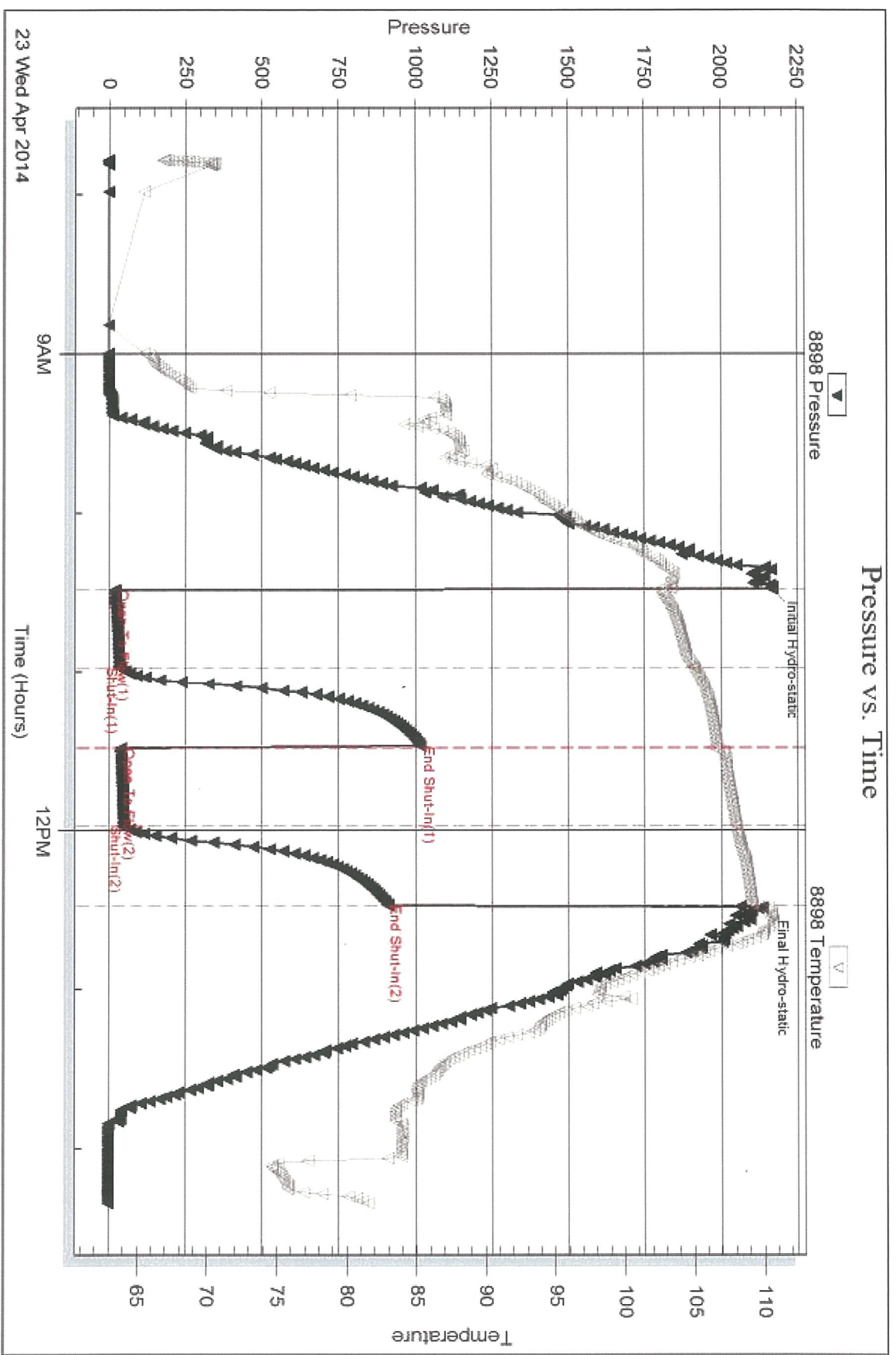
Recovery Comments:

Serial #: 8898

Outside Palomino Petroleum

Betty-Beiz #2

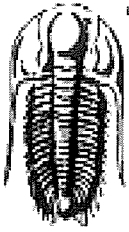
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 59877

Printed: 2014.04.23 @ 15:15:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum

14-19s-22w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Betty-Betz #2

Job Ticket: 58878

DST#: 3

ATTN: Ryan Seib

Test Start: 2014.04.23 @ 19:18:00

GENERAL INFORMATION:

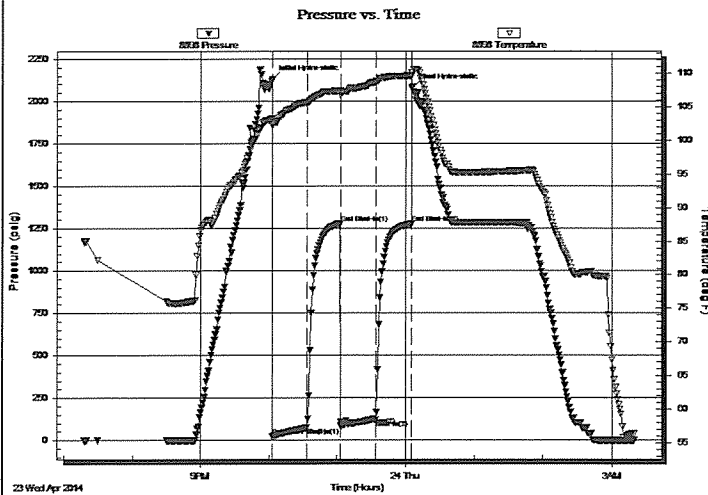
Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:02:50
 Time Test Ended: 03:19:39
 Interval: **4256.00 ft (KB) To 4356.00 ft (KB) (TVD)**
 Total Depth: 4356.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Phillip Gage
 Unit No: 49
 Reference Elevations: 2233.00 ft (KB)
 2226.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8898

Outside

Press@RunDepth: 121.63 psig @ 4289.00 ft (KB)
 Start Date: 2014.04.23 End Date: 2014.04.24
 Start Time: 19:18:01 End Time: 03:19:40
 Capacity: 8000.00 psig
 Last Calib.: 2014.04.24
 Time On Btm: 2014.04.23 @ 22:02:40
 Time Off Btm: 2014.04.24 @ 00:05:30

TEST COMMENT: 30-IF-BOB in 27 mins
 30-ISI-Weak surface blow, died in 3 mins.
 30-FF-Built to 11"
 30-FSI-Weak surface blow, died in 5 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2128.18	103.24	Initial Hydro-static
1	25.60	102.18	Open To Flow (1)
31	73.58	105.67	Shut-In(1)
60	1278.49	107.39	End Shut-In(1)
61	87.80	107.13	Open To Flow (2)
91	121.63	108.74	Shut-In(2)
123	1276.61	109.67	End Shut-In(2)
123	2077.66	110.08	Final Hydro-static

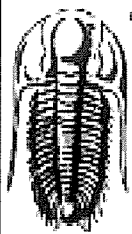
Recovery

Length (ft)	Description	Volume (bbl)
126.00	SOGMCE, 10%o, 20%g, 30%m, 50%emul	1.77
63.00	OGMCE, 10%g, 20%o, 30%m, 40%emuls	0.88
50.00	OGCM. 5%g, 15%o, 80%m	0.70

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

14-19s-22w Ness, KS

4924 SE 84th St.
New ton, KS 67114

Betty-Betz #2

Job Ticket: 58878

DST#: 3

ATTN: Ryan Seib

Test Start: 2014.04.23 @ 19:18:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:02:50

Time Test Ended: 03:19:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 49

Interval: **4256.00 ft (KB) To 4356.00 ft (KB) (TVD)**

Total Depth: 4356.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2233.00 ft (KB)

2226.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 4289.00 ft (KB)

Start Date: 2014.04.23

End Date:

2014.04.24

Capacity: 8000.00 psig

Last Calib.:

2014.04.24

Start Time: 19:18:01

End Time:

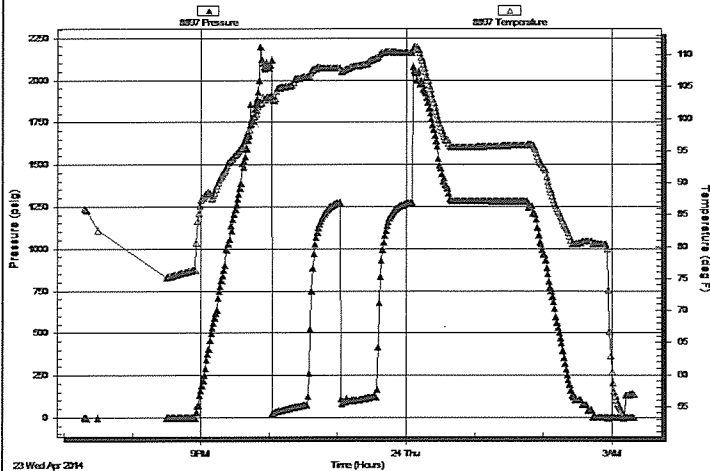
03:19:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-BOB in 27 mins
30-ISI-Weak surface blow , died in 3 mins.
30-FF-Built to 11"
30-FSI-Weak surface blow , died in 5 mins.

Pressure vs. Time



PRESSURE SUMMARY

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

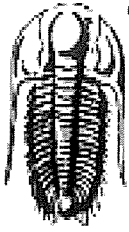
Recovery

Length (ft)	Description	Volume (bbl)
126.00	SOGMCE, 10%o, 20%g, 30%m, 50%emu	1.77
63.00	OGMCE, 10%g, 20%o, 30%m, 40%emu	0.88
50.00	OGCM. 5%g, 15%o, 80%m	0.70

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

14-19s-22w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Betty-Betz #2

Job Ticket: 58878

DST#: 3

ATTN: Ryan Seib

Test Start: 2014.04.23 @ 19:18:00

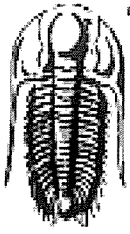
Tool Information

Drill Pipe:	Length: 4249.00 ft	Diameter: 3.80 inches	Volume: 59.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 59.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4256.00 ft			Final 590000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	127.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4234.00	
Hydraulic tool	5.00			4239.00	
Jars	5.00			4244.00	
Safety Joint	2.00			4246.00	
Packer	5.00			4251.00	27.00 Bottom Of Top Packer
Packer	5.00			4256.00	
Stubb	1.00			4257.00	
Perforations	31.00			4288.00	
Change Over Sub	1.00			4289.00	
Recorder	0.00	8897	Inside	4289.00	
Recorder	0.00	8898	Outside	4289.00	
Drill Pipe	63.00			4352.00	
Change Over Sub	1.00			4353.00	
Bullnose	3.00			4356.00	100.00 Bottom Packers & Anchor

Total Tool Length: 127.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

14-19s-22w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Betty-Betz #2

Job Ticket: 58878

DST#: 3

ATTN: Ryan Seib

Test Start: 2014.04.23 @ 19:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 48.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	SOGMCE, 10%o, 20%g, 30%m, 50%emulsion	1.767
63.00	OGMCE, 10%g, 20%o, 30%m, 40%emulsion	0.884
50.00	OGCM, 5%g, 15%o, 80%m	0.701

Total Length: 239.00 ft Total Volume: 3.352 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery-Comments:

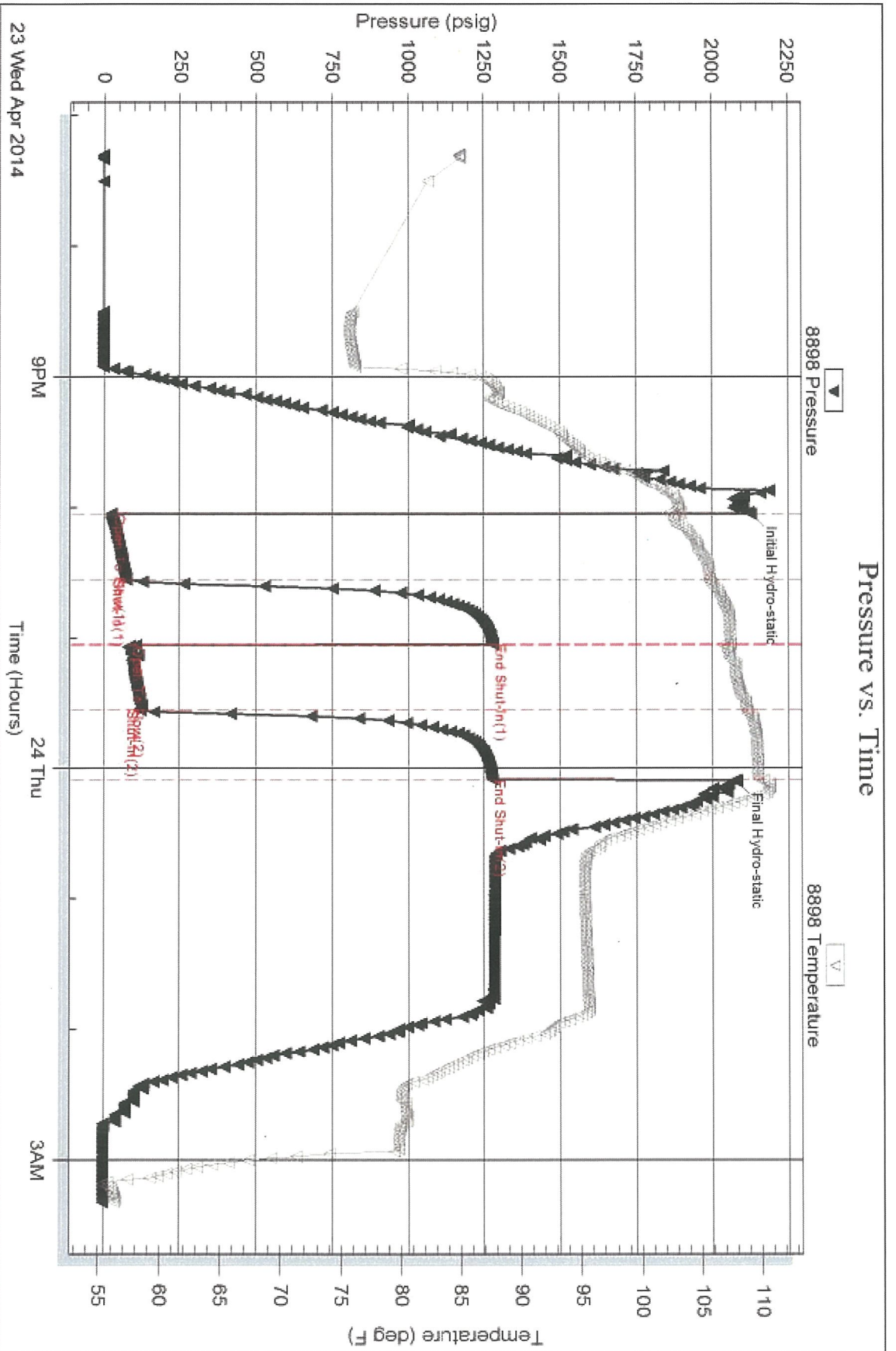
Serial #: 8898

Outside

Palomino Petroleum

Betty-Beiz #2

DST Test Number: 3



Serial #: 8897

Inside

Palomino Petroleum

Betty-Beitz #2

DST Test Number: 3

