

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

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

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	MENDENHALL 6
Doc ID	1411557

All Electric Logs Run

Dual Induction
Micro
Litho Density Neutron
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	MENDENHALL 6
Doc ID	1411557

Tops

Name	Top	Datum
Anhy.	2022	(+ 559)
Base Anhy.	1990	(+ 591)
Topeka	3559	(- 978)
Heebner	3801	(-1220)
Lansing	3841	(-1260)
Stark	4077	(-1496)
Hushpuckney	4111	(-1530)
BKC	4139	(-1558)
Marmaton	4170	(-1589)
Pawnee	4273	(-1692)
Ft. Scott	4327	(-1746)
Cherokee Sh.	4354	(-1773)
Miss. Porosity	4442	(-1861)
LTD	4562	(-1981)





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



# Invoice

DATE	INVOICE #
3/26/2018	31262

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

RECEIVED  
 APR 05 2018

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#16	Mendenhall	Lane	DS&W	Oil	Development	Squeeze-Bring c...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
577D	Pump Charge - Shallow Squeeze (< 1500 Ft.)				1	Job	875.00	875.00
330	Swift Multi-Density Standard (MIDCON II)				100	Sacks	16.25	1,625.00T
325	Standard Cement				50	Sacks	13.00	650.00T
278	Calcium Chloride				3	Sack(s)	40.00	120.00T
290	D-Air				1	Gallon(s)	42.00	42.00T
581D	Service Charge Cement				150	Sacks	1.75	262.50
583D	Drayage				370.02	Ton Miles	0.85	314.52
101	Service Packer Rental				1	Each	1,250.00	1,250.00T
276	Flocele				25	Lb(s)	2.50	62.50T
	Subtotal							5,451.52
	Sales Tax Lane County						7.50%	281.21
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$5,732.73



Services, Inc.

TICKET 031262

CHARGE TO: Calvinio Pedraza  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>New City KS</u>	WELL/PROJECT NO. <u>416</u>	LEASE <u>Mandeville</u>	COUNTY/PARISH <u>Leve</u>	STATE <u>KS</u>	CITY <u>Pendennis</u>	DATE <u>26 MAR 18</u>	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA <u>WET</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>square - bring cement to surface</u>	WELL LOCATION				
4. REFERRAL LOCATION INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			U/M	U/M		
515						50	1	ea	5.00	250.00
577					TRK 114	1	ea		875.00	875.00
325	330				Rund Charge - shallow square	100	1	ea	16.25	1625.00
278					SAND cement	50	1	ea	13.00	650.00
290					Standard cement	3	ea		40.00	120.00
581					Culvert chloride	1	gal		42.00	42.00
583					D-Air	150	1	ea	1.75	262.50
161					Service charge	1480	1	ea	0.85	314.50
276					Penetration	5 1/2	in		12.50	1250.00
					Severe repair needed	25	lb		2.50	62.50
					Grade					

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: Worm Handed  
 TIME SIGNED:  A.M.  P.M.

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

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	545/52
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"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					
TOTAL					5922.73

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

SWIFT OPERATOR: BeBell APPROVAL: BeBell

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 26 MAR 18 PAGE NO. 1

CUSTOMER *Palacio Petroleum* WELL NO. *#16* LEASE *Mendocino* JOB TYPE *shallow squeeze* TICKET NO. *31262*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Perforate 5 1/2 @ 630' - bring cement to surface 2 3/4 x 5 1/2
								100sk SMD cement w/ 1/4" floccle 50sk standard cement w/ 3% CC AD-1 packer @ 545'
	1315							on location TRK 114
	1325							hook to 5 1/2 casing - pump #20
		3						
		1	9				100	catch pressure
		1	10				100	- circ fluid to surface -
		3	15				150	increase to 3 bpm
								- good circ to surface -
	1335							order cement
	1530		2					Run packer to 545' - set packer
	1535	3	1			200		Pressure AS (8 1/2) to 500 psi - shut in
	1550	3				200		Inj rate 3 bpm @ 200 psi - circ to p.t
		3	37			350		Mix SMD @ 12.5 ppj 100sk - circ -
		1 3/4	40			300		switch to STD cement 3% CC
								slow rate
								- cement to surface -
		3/4	46			300		Kickout - shot in 2 3/8
								wash out Pump & line
	1625	1 3/4				250		Displace
		1 3/4	3			250		Kickout - shot in 2 3/8 holding 200 psi
	1635							wash truck
	1700							open 2 3/8" pump to 250 psi
	1735							pump up to 250 psi -
			4					Release pressure to truck - dried up
								Release packer - Reverse hlec been
								- NO cement flow -
	1765							pull tool
						200		run 5 1/2 to 200 psi - shut in
								kick up
	1830							job complete

Thanks plain, shut & switch





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



# Invoice

DATE	INVOICE #
3/23/2018	31261

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

- Acidizing
- Cement
- Tool Rental

**RECEIVED**  
 APR 05 2018

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#6	Mendenhall	Lane	DS&W	Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,300.00	1,300.00
330	Swift Multi-Density Standard (MIDCON II)				225	Sacks	16.25	3,656.25T
276	Flocele				50	Lb(s)	2.50	125.00T
290	D-Air				1	Gallon(s)	42.00	42.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				559.75	Ton Miles	0.85	475.79
104	Port Collar Tool Rental				1	Each	200.00	200.00T
	Subtotal							6,442.79
	Sales Tax Lane County						7.50%	301.74

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$6,744.53
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**Services, Inc.**

TICKET 031261

CHARGE TO: Palermo  
 ADDRESS  
 CITY, STATE, ZIP CODE

SERVICE LOCATIONS: Wong City, KS  
 WELL/PROJECT NO. 6 LEASE Mendenhall COUNTY/PARISH Lane STATE KS CITY Wendover DATE 23 APR 16 OWNER  
 TICKET TYPE:  SERVICE  SALES CONTRACTOR  
 WELL TYPE: D11 WELL CATEGORY: Development JOB PURPOSE: convert post collar DELIVERED TO: location ORDER NO.  
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					MILEAGE	50	mi				5000	2500.00
576D					Post Charge	1	ea	5 1/2	in		1300.00	1300.00
330					SWD convert	225	sk				16.25	3656.25
276					Flange	50	lb				2.50	1250.00
290					D-air	1	gal				42.00	42.00
581					Seawater charge	22.5	sk				1.75	393.75
583					Drayage	2330	lb		539.75	7M	0.85	475.79
104					Post collar opening tool 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.  
 X For Hoop  
 DATE SIGNED TIME SIGNED  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?	AGREE	UNDECIDED	DISAGREE
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"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL 6642.79  
 TOTAL 6944.53

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR BM APPROVAL BM  
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 23 MAR 18 PAGE NO. 1

CUSTOMER Palomino WELL NO. LEASE Mendenhall JOB TYPE cement port collar TICKET NO. 31261

CHART NO.	TIME	RATE (BPM)	VOLUME (EBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 sk SMD w/ # Flocele 2 3/8 x 5 1/2 Port collar @ 1960'
	1245							on loc TRK 114
	1300					1000	1000	test to 1000 psi - hold open Port collar pumping into smelly - but no blow - close / test / Reopen port collar slight blow - shut in BS
	1340	3 1/2				500		inj rate 3 1/2 bpm @ 500 psi
	1347	3 1/2				400		mix cement SMD @ 11.2 ppg
		3 1/2	20			500		- slight blow -
		3 1/2	34			500		- circulation to surface -
		3 1/2	52			500		pressure jump to 800 psi - lost circulation
	1410							continue mixing - fast rate then slow rate shut down - BS on slight vacuum - WAIT - (125 sk mixed)
	1450	3				0		mix SMD cement @ 11.2 ppg
		3	2			400		catch pressure no blow - {no cement to surface}
		3	55			400		(100 sk mixed)
	1600							- close port collar {225 total mixed}
						1000	1000	test
	1615		25					Run 6 joints Reverse hole clean - 2 cement plugs - wash truck
	1630							pull tool wash truck
	1645							Back up - job complete thanks Blair, Fred # misc



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



# Invoice

DATE	INVOICE #
3/15/2018	31255

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

**RECEIVED**  
MAR 22 2018

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#61	Mendenhall	Lane	WW Drilling Rig ...	Oil	Development	Cement Long Str...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
578D-L	Pump Charge - Long String				1	Job	1,300.00	1,300.00
403-5	5 1/2" Cement Basket				1	Each	275.00	275.00T
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	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
409-5	5 1/2" Turbolizer				11	Each	85.00	935.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				100	Sacks	13.00	1,300.00T
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				75	Lb(s)	2.50	187.50T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	16.25	2,031.25T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00
290	D-Air				1	Gallon(s)	42.00	42.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				572.85	Ton Miles	0.85	486.92
	Subtotal							11,826.42
	Sales Tax Lane County						7.50%	697.18
<b>We Appreciate Your Business!</b>						<b>Total</b>		\$12,523.60



CHARGE TO: Palawind  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET U31255

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Neos City KS</u>	WELL/PROJECT NO. # <u>6</u>	LEASE <u>Mendenhall</u>	COUNTY/PARISH <u>Lawe</u>	STATE <u>KS</u>	CITY <u>Penderwis</u>	DATE <u>15 MAR 18</u>	OWNER
2. <u>KS</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>1216</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3. <u>KS</u>	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>connect long string</u>	WELL PERMIT NO.	WELL LOCATION		
4. <u>KS</u>	INVOICE INSTRUCTIONS		WELL PERMIT NO.		WELL LOCATION		

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		UM	UM		
576					MILEAGE	50	mi	5.00	250.00
578					Pool Charge	1	hr	1300.00	1300.00
403					Connect Basket	5 1/2	in	275.00	1500.00
404					Port Collar	5 1/2	in	2500.00	1375.00
406					Latch down plug 3/8" hole	5 1/2	in	2500.00	1375.00
407					Insert float shoe w/ auto fill	5 1/2	in	325.00	1625.00
409					Turbines	5 1/2	in	85.00	425.00
419					Rotating head rental	5 1/2	in	200.00	1100.00

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.  
 X [Signature]  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 A.M.  
 P.M.  
1:00

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

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	60351.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					5791.42
WE UNDERSTOOD AND MET YOUR NEEDS?					11,826.42
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	12533.60

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR [Signature] APPROVAL [Signature]  
 Thank You!



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

TICKET CONTINUATION

TICKET No. 31255

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M			
325						Standard cement (Fo-En-2)	100	SK	15	13.00	1300.00
284						Cal Seal	500	lb	18	35.00	17500.00
283						SALT	500	lb		0.20	100.00
285						CFR-1	50	lb		4.50	225.00
276						Fluoride	75	lb		2.50	187.50
338						SMB cement	125	sk		16.05	2031.35
281						MULFLUSH	500	gal		1.50	750.00
221						KCL Liquid	4	gal		25.00	100.00
290						D-45R	1	Yard		42.00	42.00

CUSTOMER	WEI	MATERIAL	#	DATE	PAGE	OF	SERVICE CHARGE		
							MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES
Polvinco		Marketwell	46	15	18	2	22.5	2294	572.84
							1.75	0.85	
							393.75	486.92	
							486.92		
							579.14		

CONTINUATION TOTAL 579.14

JOB LOG

SWIFT Services, Inc.

DATE 15 MAR 18 PAGE NO. 1

CUSTOMER PARMINO WELL NO. #6 LEASE Mendenhall JOB TYRE Cement long string TICKET NO. 31255

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								125sk SMD cement w/ 1/4" f/cels 100sk EA2 cement w/ 1/4" f/cels 5 1/2" x 14" casing 109 jts 4584' set 9559' shvejt 4338' Postcollar #62 1960
	1130							on loc TRK 114
	1139							start 5 1/2" x 14" casing in well
	1325							Drop ball - circulate - ROTATE
	1425	3 1/2	12			100		Pump 500 gal mid flush
		3 1/2	20			100		Pump 20 bbl KCh flush
								Plug RH - 30sk
			5					
	1435	3 1/2	40			100		MIX SMD cement 95sk @ 13.2
		3 1/2	23			100		MIX EA-2 cement 100sk @ 15.3778
								Drop latch down plug work out pump & line
	1457	5 3/4				100		Displace plug
		5 3/4	99			800		
	1520	5 3/4	110			1450		hand plug
								Release pressure to truck - dried up
	1530							wash truck
								Backup
	1555							job complete
								Trucks Blaine, Phil & squatch.

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln  
RUSSELL, KS 67665

Invoice

RECEIVED

MAR 07 2018

Date	Invoice #
3/6/2018	3249

Bill To
PALOMINO PETROLEUM INC 4924 SE 84TH ST NEWTON,KS 67114

P.O. No.	Terms	Project
MENDENHALL#6	Due on receipt	

Quantity	Description	Rate	Amount
150	60/40 POZMIX CEMENT	13.40	2,010.00
5	CALCIUM-CHLORIDE	80.00	400.00
3	BENTONITE GEL	30.00	90.00
158	HANDLING	1.60	252.80
	HEAVY EQUIPMENT. ONE WAY	300.00	300.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	850.00	850.00
35	HEAVY EQUIPMENT. ONE WAY	3.50	122.50
35	LMV- ONE WAY	1.75	61.25
	20% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE	0.00	0.00
	GOVE CO SALES TAX	8.50%	0.00

Thank you for your business.

<b>Total</b>	\$4,086.55
--------------	------------

-- 817.31  
3,269.24



# GLOBAL OIL FIELD SERVICES, LLC

3249

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>3-5-18</u>	SEC. <u>3</u>	TWP. <u>16S</u>	RANGE <u>27W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>1:45pm</u>
LEASE <u>Mendenhall</u>	WELL #. <u>6</u>	LOCATION <u>Penderine<sup>KS</sup> Red Chert Rd 4th</u>			COUNTY <u>Lane</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)			<u>2 East North into</u>				

CONTRACTOR WV Drilling Rig# 10

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 218'

CASING SIZE 5 7/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER Palomino Petroleum

CEMENT AMOUNT ORDERED 150 sacks (60/40) 3% GEL

EQUIPMENT

PUMP TRUCK CEMENTER Brad

# 417 HELPER Brad

BULK TRUCK DRIVER Tom

# 378 DRIVER

BULK TRUCK DRIVER

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Ran Site of 5 7/8 casing + landing + Baker circulation hooked to pump + well pumped 150 sacks of cement + displaced 12 gals of H2O and skirt in.

Cement Dip Circulate to Surface

CHARGE TO: Palomino Petroleum

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

Global Oil Field 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.

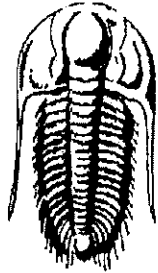
PRINTED NAME

SIGNATURE Alan P. H.

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

**Mendenhall #6**

**3-16s-27w Lane,KS**

Start Date: 2018.03.09 @ 19:32:00

End Date: 2018.03.10 @ 01:13:00

Job Ticket #: 65285                      DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

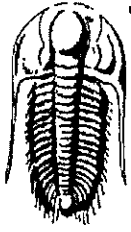
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.03.15 @ 10:25:44

Palomino Petroleum, Inc  
3-16s-27w Lane,KS  
Mendenhall #6  
DS1 # 1  
LKC E - F  
2018.03.09







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc

**3-16s-27w Lane, KS**

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65285

DST#: 1

ATTN: Ryan Seib

Test Start: 2018.03.09 @ 19:32:00

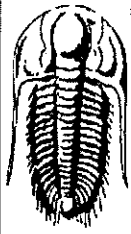
### Tool Information

Drill Pipe:	Length: 3778.00 ft	Diameter: 3.80 inches	Volume: 53.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 53.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3912.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 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			3886.00	
Shut In Tool	5.00			3891.00	
Hydraulic tool	5.00			3896.00	
Jars	5.00			3901.00	
Safety Joint	2.00			3903.00	
Packer	5.00			3908.00	27.00 Bottom Of Top Packer
Packer	4.00			3912.00	
Stubb	1.00			3913.00	
Recorder	0.00	8522	Inside	3913.00	
Recorder	0.00	8319	Outside	3913.00	
Perforations	24.00			3937.00	
Bullnose	3.00			3940.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65285

DST#: 1

ATTN: Ryan Seib

Test Start: 2018.03.09 @ 19:32:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 63.00 sec/qt

Water Loss: 6.38 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 0 deg API

Water Salinity: 26000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	mcw 30m 70w (oil spots in tool)	0.492

Total Length: 100.00 ft      Total Volume: 0.492 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: rw is .399@ 47F = 26,000ppm

Serial #: 8522

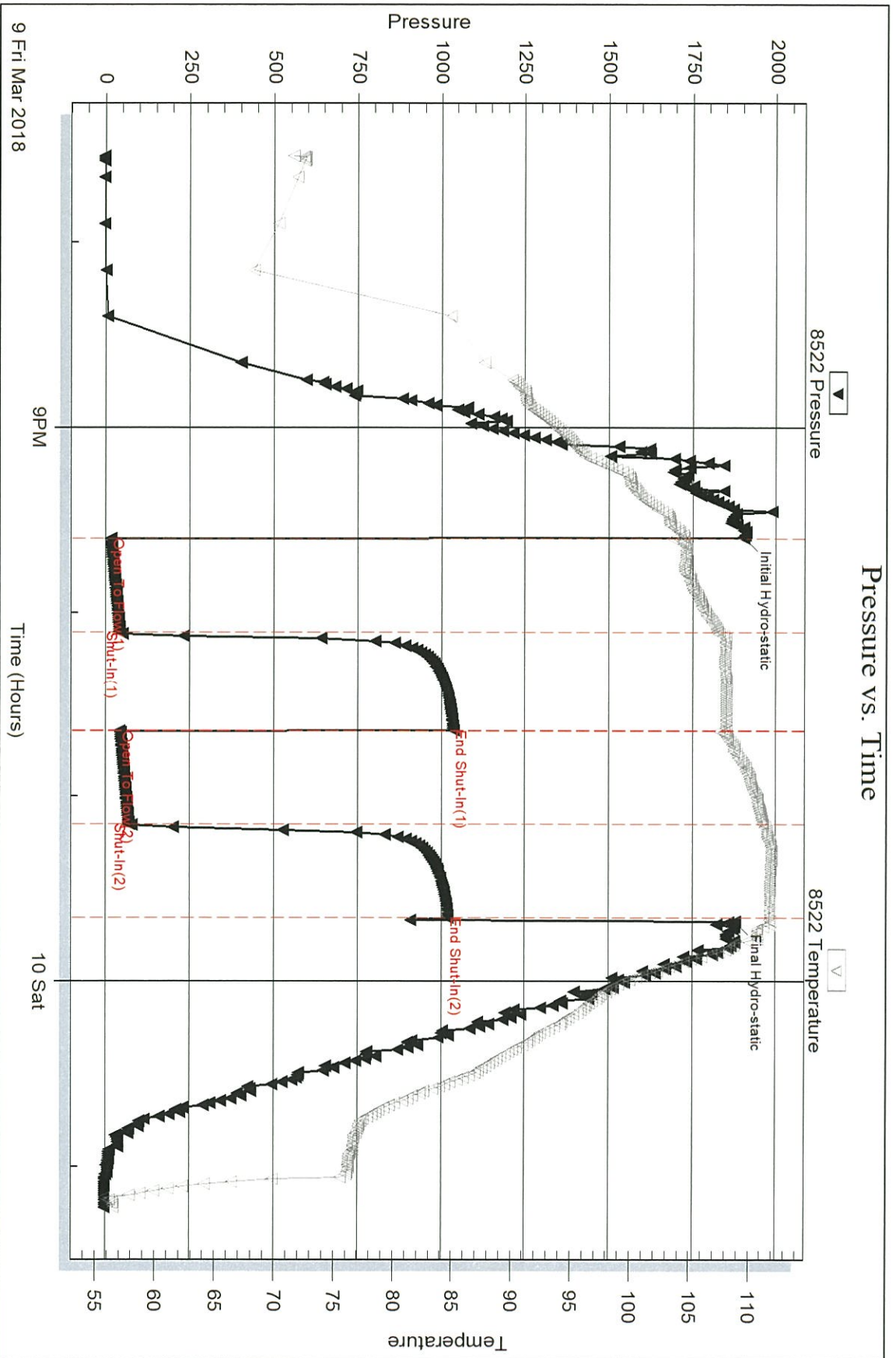
Inside

Palomino Petroleum, Inc

Mendenhall #6

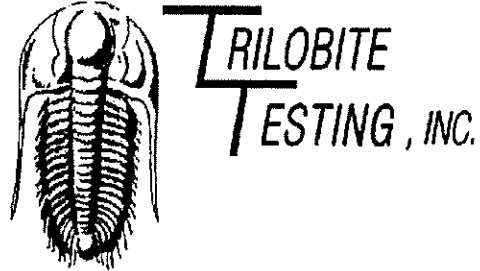
DST Test Number: 1

### Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

### **Mendenhall #6**

### **3-16s-27w Lane,KS**

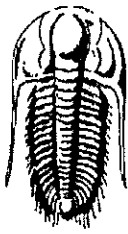
Start Date: 2018.03.10 @ 11:54:00

End Date: 2018.03.10 @ 19:20:00

Job Ticket #: 65286                      DST #: 2

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

Printed: 2018.03.15 @ 10:25:18



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65286

DST#: 2

ATTN: Ryan Seib

Test Start: 2018.03.10 @ 11:54:00

### GENERAL INFORMATION:

Formation: LKC H - I

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:40:45

Time Test Ended: 19:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 3980.00 ft (KB) To 4044.00 ft (KB) (TVD)

Total Depth: 4044.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2581.00 ft (KB)

2576.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8522**

Inside

Press@RunDepth: 510.79 psig @ 3981.00 ft (KB)

Start Date: 2018.03.10

End Date:

2018.03.10

Start Time: 11:54:05

End Time:

19:19:59

Capacity: 8000.00 psig

Last Calib.: 2018.03.10

Time On Btm: 2018.03.10 @ 13:40:30

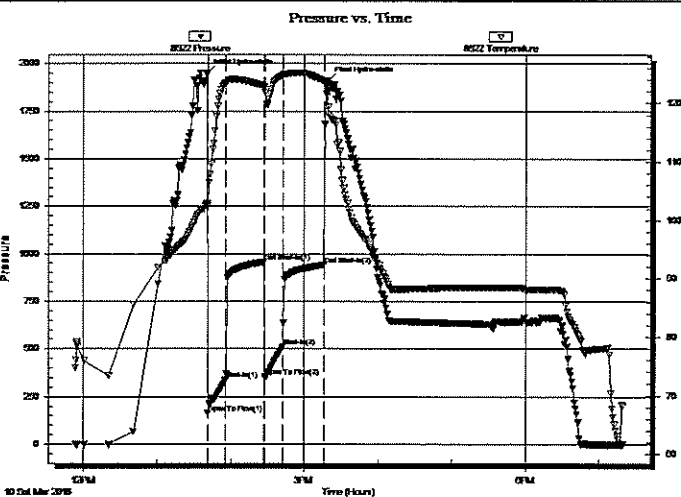
Time Off Btm: 2018.03.10 @ 15:19:15

TEST COMMENT: IF: BOB @ 1 min.

ISI: BOB @ 5 min.

FF: BOB @ 30 sec.

FSI: BOB @ 2 min. Gas to surface



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.92	102.89	Initial Hydro-static
1	162.71	102.47	Open To Flow (1)
15	340.69	123.52	Shut-In(1)
47	956.22	122.90	End Shut-In(1)
47	352.65	122.67	Open To Flow (2)
62	510.79	124.79	Shut-In(2)
96	941.84	123.76	End Shut-In(2)
99	1909.10	119.32	Final Hydro-static

### Recovery

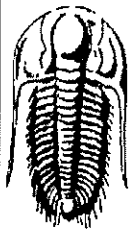
Length (ft)	Description	Volume (bb)
180.00	gmco 35g 30m 35o	1.41
1170.00	go 40g 60o	16.41
0.00	Gas to surface	0.00

\* 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, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

Mendenhall #6

Job Ticket: 65286

DST#: 2

ATTN: Ryan Seib

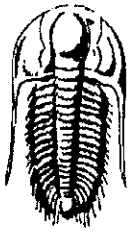
Test Start: 2018.03.10 @ 11:54:00

### Tool Information

Drill Pipe:	Length: 3841.00 ft	Diameter: 3.80 inches	Volume: 53.88 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3980.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	91.00 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			3954.00	
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00			3964.00	
Jars	5.00			3969.00	
Safety Joint	2.00			3971.00	
Packer	5.00			3976.00	27.00 Bottom Of Top Packer
Packer	4.00			3980.00	
Stubb	1.00			3981.00	
Recorder	0.00	8522	Inside	3981.00	
Recorder	0.00	8319	Outside	3981.00	
Perforations	27.00			4008.00	
Change Over Sub	1.00			4009.00	
Drill Pipe	31.00			4040.00	
Change Over Sub	1.00			4041.00	
Bullnose	3.00			4044.00	64.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>91.00</b>				



**TRILOBITE**  
TESTING, INC.

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65286

DST#: 2

ATTN: Ryan Seib

Test Start: 2018.03.10 @ 11:54:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4700.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
180.00	gmco 35g 30m 35o	1.414
1170.00	go 40g 60o	16.412
0.00	Gas to surface	0.000

Total Length: 1350.00 ft      Total Volume: 17.826 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 8522

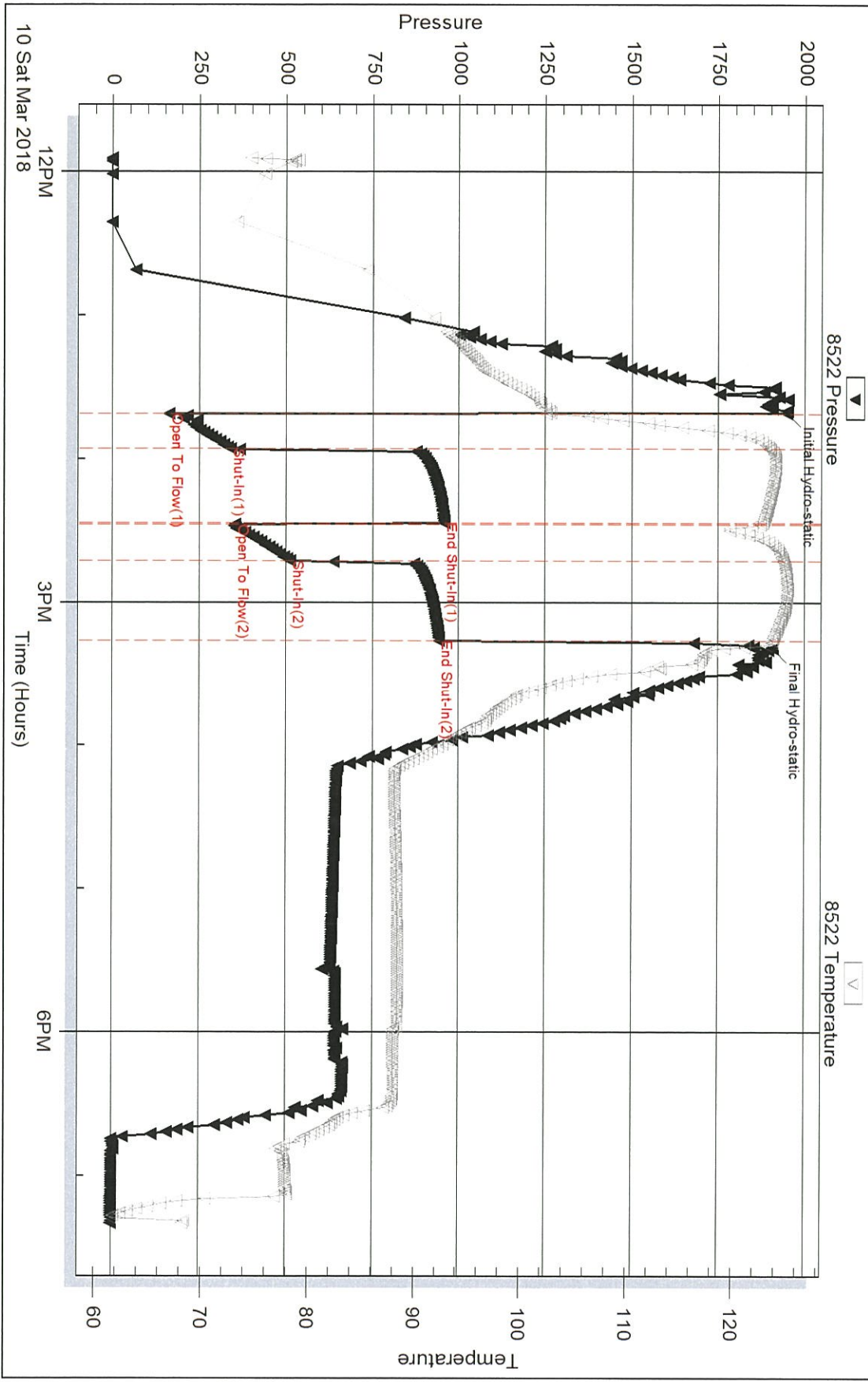
Inside

Palomino Petroleum, Inc

Mendenhall #6

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 65286

Printed: 2018.03.15 @ 10:25:19

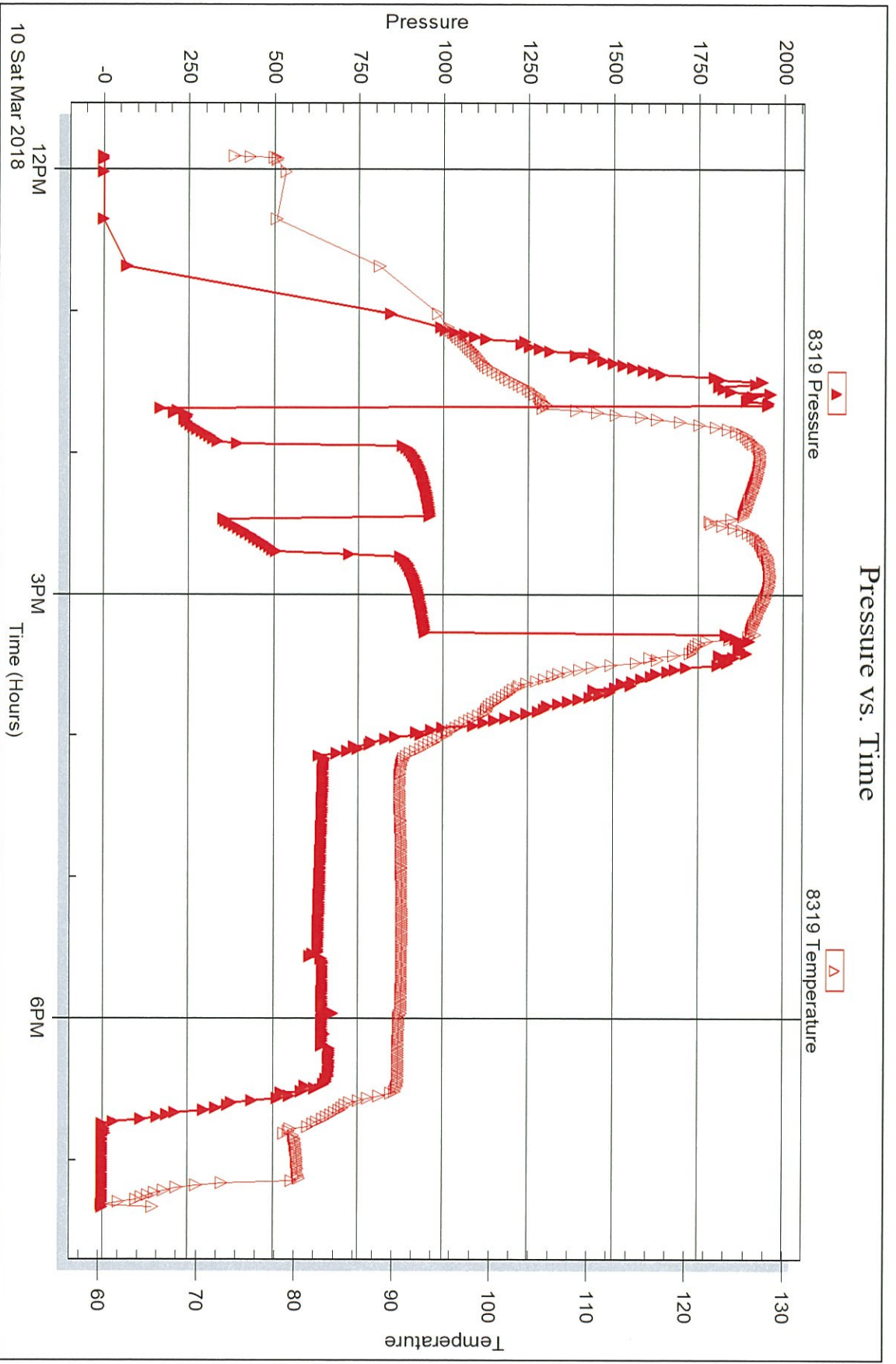
Serial #: 8319

Outside

Palomino Petroleum, Inc

Mendenhall #6

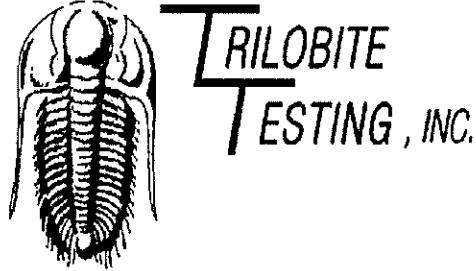
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65286

Printed: 2018.03.15 @ 10:25:19



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

### **Mendenhall #6**

### **3-16s-27w Lane,KS**

Start Date: 2018.03.11 @ 01:54:00

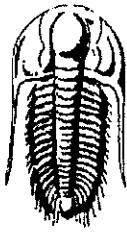
End Date: 2018.03.11 @ 07:55:15

Job Ticket #: 65288                      DST #: 3

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

Printed: 2018.03.15 @ 10:24:50





**TRIOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65288

DST#: 3

ATTN: Ryan Seib

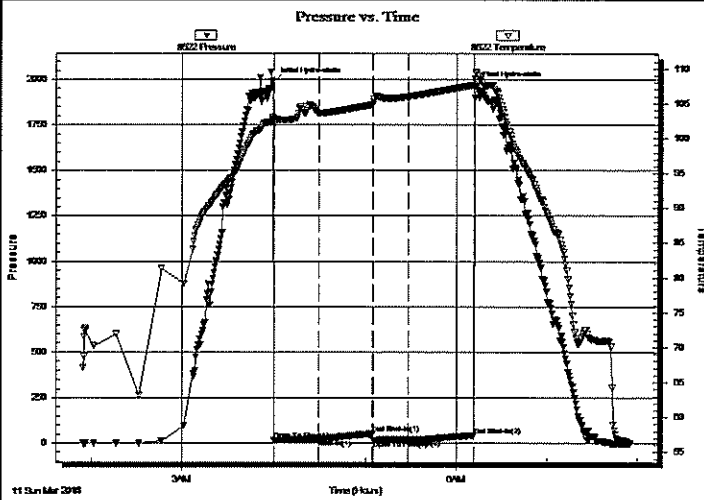
Test Start: 2018.03.11 @ 01:54:00

## GENERAL INFORMATION:

Formation: LKC J  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:00:15  
 Time Test Ended: 07:55:15  
 Interval: 4050.00 ft (KB) To 4082.00 ft (KB) (TVD)  
 Total Depth: 4050.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2581.00 ft (KB)  
 2576.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8522** Inside  
 Press@RunDepth: 20.42 psig @ 4051.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.03.11 End Date: 2018.03.11 Last Calib.: 2018.03.11  
 Start Time: 01:54:05 End Time: 07:55:14 Time On Btm: 2018.03.11 @ 04:00:00  
 Time Off Btm: 2018.03.11 @ 06:13:00

TEST COMMENT: IF: 1" blow.  
 ISI: No return.  
 FF: 1/2" blow.  
 FSI: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.53	103.03	Initial Hydro-static
1	16.10	101.89	Open To Flow (1)
30	21.06	103.61	Shut-In(1)
65	52.51	104.84	End Shut-In(1)
66	13.88	105.24	Open To Flow (2)
89	20.42	106.00	Shut-In(2)
132	42.97	107.63	End Shut-In(2)
133	1969.48	109.58	Final Hydro-static

## Recovery

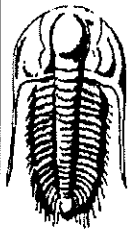
Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots)	0.07

\* 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, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
Newton, KS 67114

Mendenhall #6

Job Ticket: 65288

DST#: 3

ATTN: Ryan Seib

Test Start: 2018.03.11 @ 01:54:00

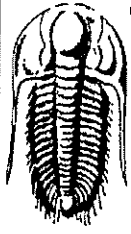
### Tool Information

Drill Pipe:	Length: 3905.00 ft	Diameter: 3.80 inches	Volume: 54.78 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4050.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 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			4024.00	
Shut In Tool	5.00			4029.00	
Hydraulic tool	5.00			4034.00	
Jars	5.00			4039.00	
Safety Joint	2.00			4041.00	
Packer	5.00			4046.00	27.00 Bottom Of Top Packer
Packer	4.00			4050.00	
Stubb	1.00			4051.00	
Recorder	0.00	8522	Inside	4051.00	
Recorder	0.00	8319	Outside	4051.00	
Perforations	28.00			4079.00	
Bullnose	3.00			4082.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

Mendenhall #6

Job Ticket: 65288

DST#: 3

ATTN: Ryan Seib

Test Start: 2018.03.11 @ 01:54:00

### 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: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	Mud 100m (oil spots)	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

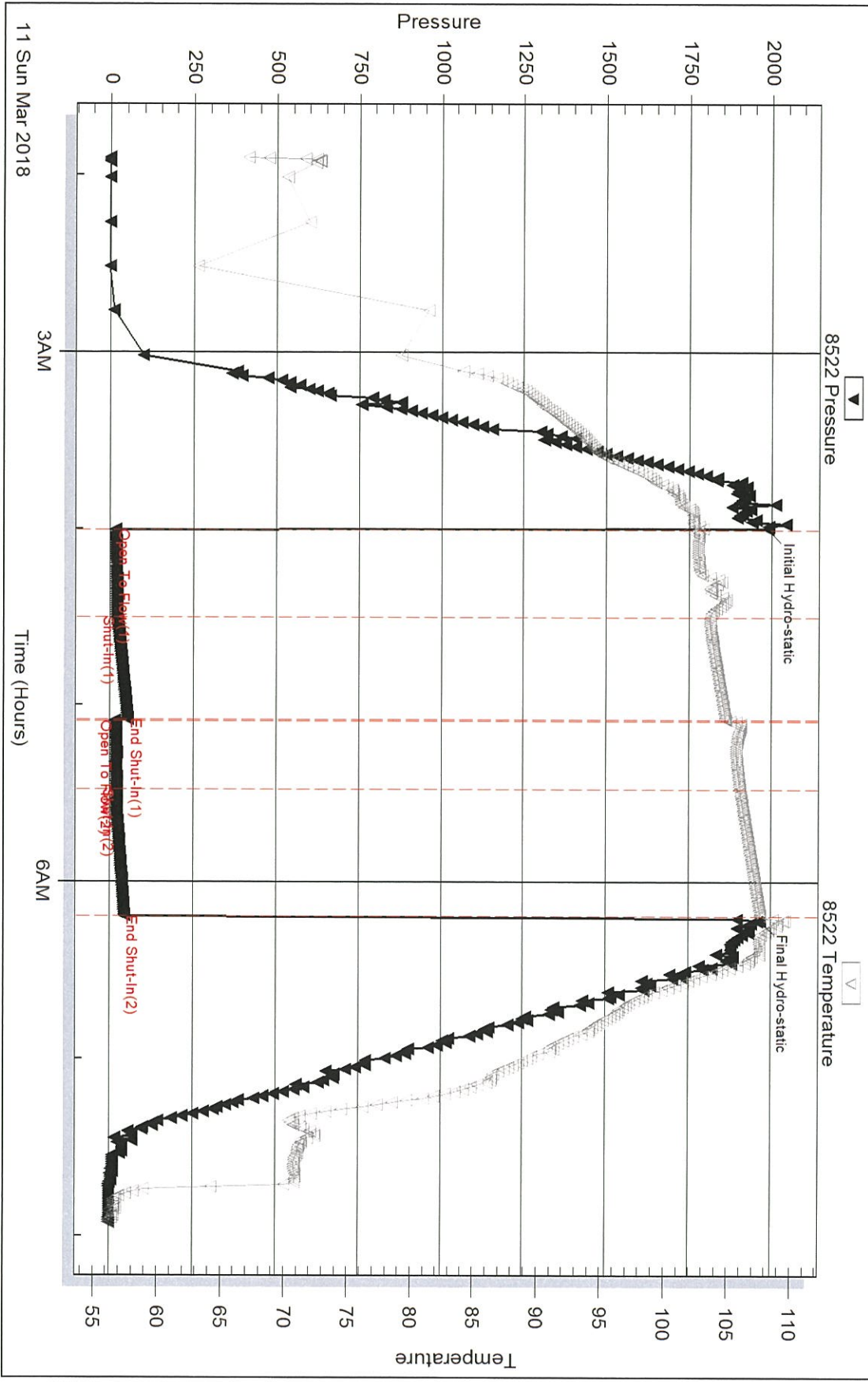
Inside

Palomino Petroleum, Inc

Mendenhall #6

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 65288

Printed: 2018.03.15 @ 10:24:51

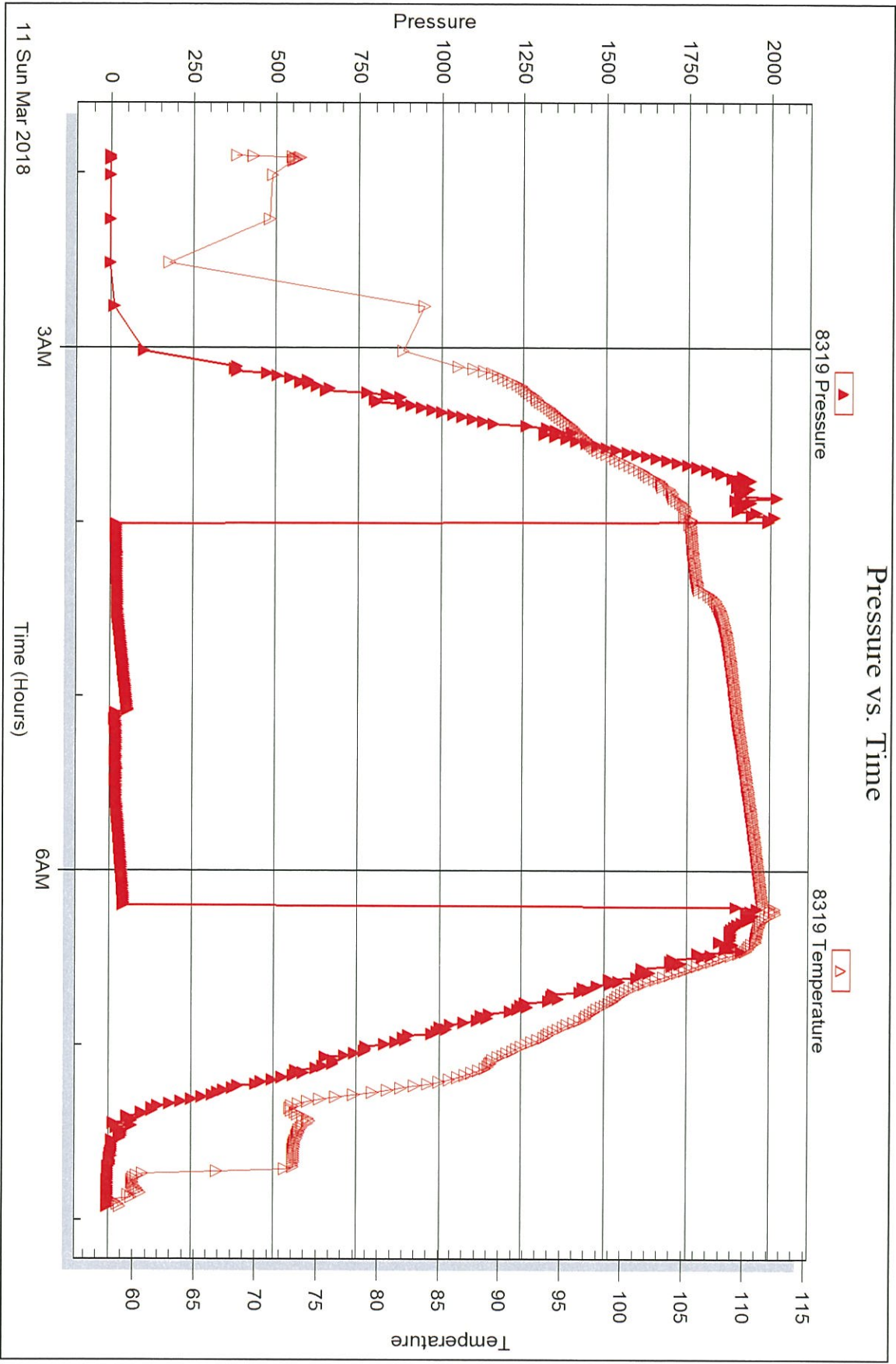
Serial #: 8319

Outside

Palomino Petroleum, Inc

Mendenhall #6

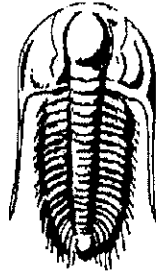
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65288

Printed: 2018.03.15 @ 10:24:51



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

**Mendenhall #6**

**3-16s-27w Lane,KS**

Start Date: 2018.03.11 @ 16:25:00

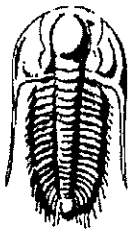
End Date: 2018.03.11 @ 21:39:00

Job Ticket #: 65289                      DST #: 4

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

Printed: 2018.03.15 @ 10:24:26

Palomino Petroleum, Inc  
3-16s-27w Lane,KS  
Mendenhall #6  
DSI # 4  
LKC K  
2018.03.11



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
Newton, KS 67114

**Mendenhall #6**

Job Ticket: 65289

DST#: 4

ATTN: Ryan Seib

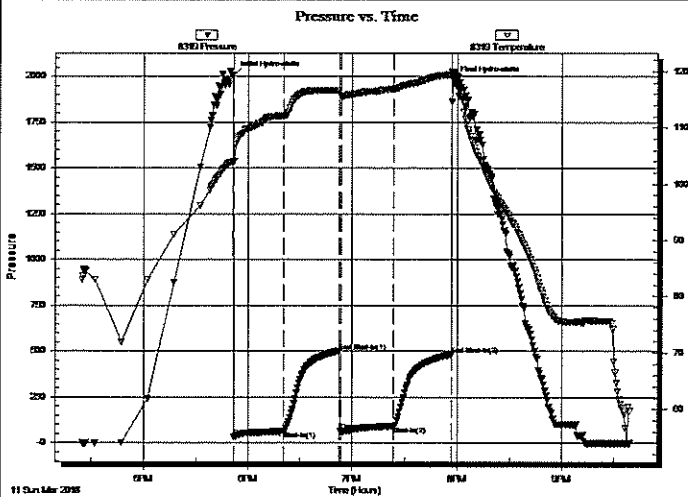
Test Start: 2018.03.11 @ 16:25:00

## GENERAL INFORMATION:

Formation: LKC K  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:51:45  
 Time Test Ended: 21:39:00  
 Interval: 4074.00 ft (KB) To 4104.00 ft (KB) (TVD)  
 Total Depth: 4104.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2581.00 ft (KB)  
 2576.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8319** Outside  
 Press@RunDepth: 92.72 psig @ 4075.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.03.11 End Date: 2018.03.11 Last Calib.: 2018.03.11  
 Start Time: 16:25:05 End Time: 21:38:59 Time On Btm: 2018.03.11 @ 17:51:15  
 Time Off Btm: 2018.03.11 @ 19:58:00

TEST COMMENT: IF: BOB @ 4 min.  
 IS: Surface return.  
 FF: BOB @ 3 min.  
 FSI: 1" return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.75	104.00	Initial Hydro-static
1	34.39	104.02	Open To Flow (1)
30	64.62	112.07	Shut-In(1)
61	499.26	116.59	End Shut-In(1)
63	62.97	115.64	Open To Flow (2)
93	92.72	116.89	Shut-In(2)
126	481.18	119.45	End Shut-In(2)
127	1979.90	119.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
170.00	gmco 45g 25m 30o	1.27
40.00	gmco 40g 5m 55o	0.56
0.00	1100' GIP	0.00

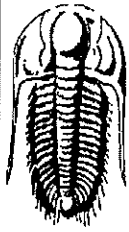
\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65289

DST#: 4

ATTN: Ryan Seib

Test Start: 2018.03.11 @ 16:25:00

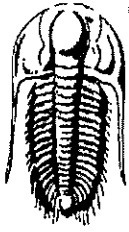
### Tool Information

Drill Pipe:	Length: 3935.00 ft	Diameter: 3.80 inches	Volume: 55.20 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 55.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4074.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			4048.00	
Shut In Tool	5.00			4053.00	
Hydraulic tool	5.00			4058.00	
Jars	5.00			4063.00	
Safety Joint	2.00			4065.00	
Packer	5.00			4070.00	27.00 Bottom Of Top Packer
Packer	4.00			4074.00	
Stubb	1.00			4075.00	
Recorder	0.00	8522	Inside	4075.00	
Recorder	0.00	8319	Outside	4075.00	
Perforations	26.00			4101.00	
Bullnose	3.00			4104.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
Newton, KS 67114

**Mendenhall #6**

Job Ticket: 65289

DST#: 4

ATTN: Ryan Seib

Test Start: 2018.03.11 @ 16:25:00

**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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
170.00	gmco 45g 25m 30o	1.273
40.00	gmco 40g 5m 55o	0.561
0.00	1100' GIP	0.000

Total Length: 210.00 ft      Total Volume: 1.834 bbf

Num Fluid Samples: 0

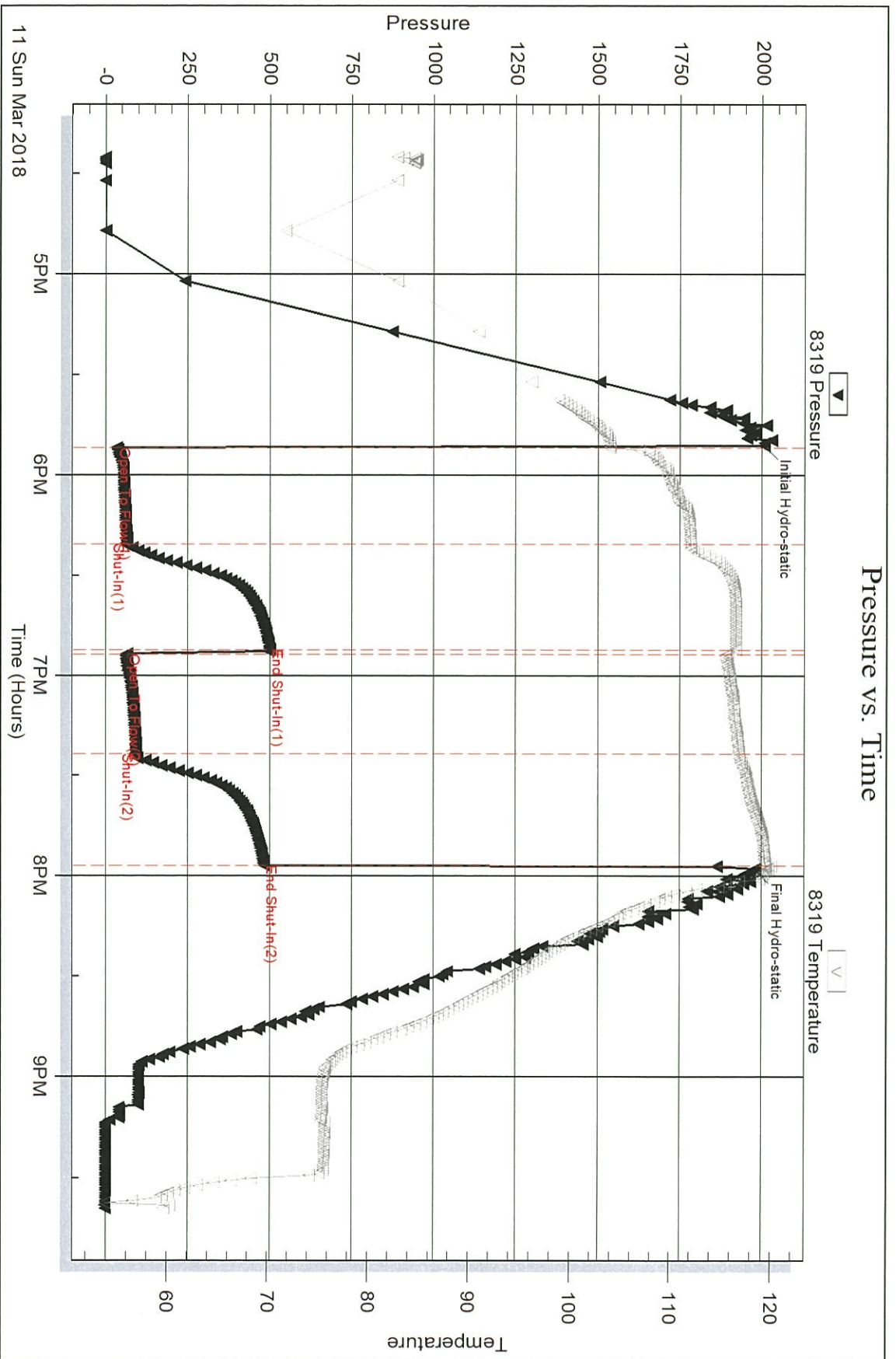
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: very light oil. probably 35-40 api



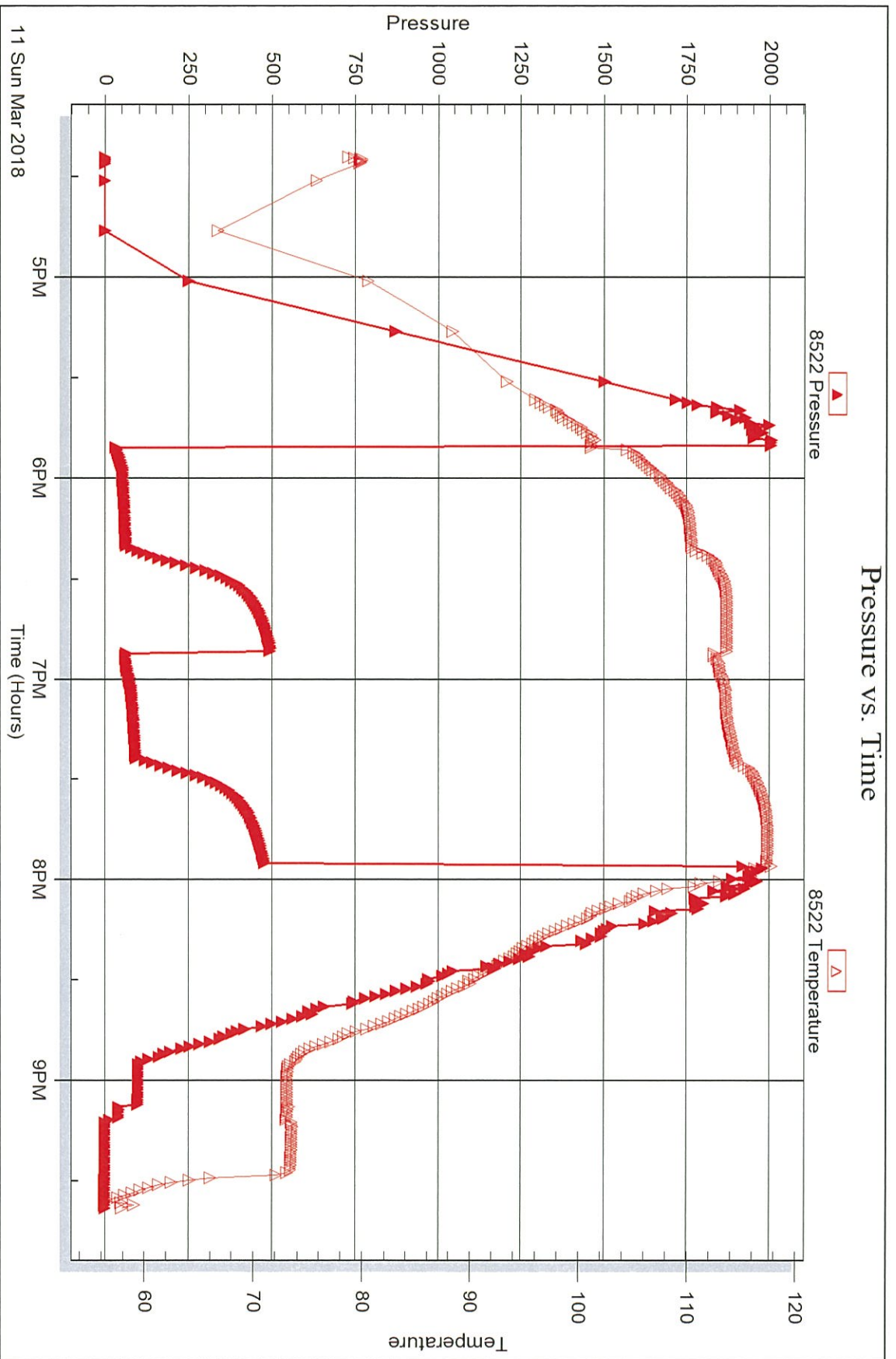
Serial #: 8522

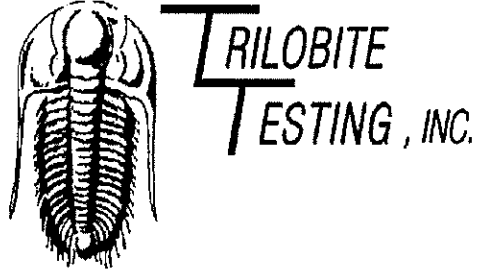
Inside

Palomino Petroleum, Inc

Mendenhall #6

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

### **Mendenhall #6**

### **3-16s-27w Lane,KS**

Start Date: 2018.03.12 @ 05:35:00

End Date: 2018.03.12 @ 10:58:15

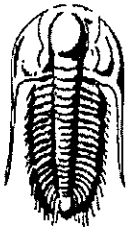
Job Ticket #: 65290                      DST #: 5

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2018.03.15 @ 10:22:46



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
Newton, KS 67114

**Mendenhall #6**

Job Ticket: 65290

DST#: 5

ATTN: Ryan Seib

Test Start: 2018.03.12 @ 05:35:00

## GENERAL INFORMATION:

Formation: LKC L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:30:15

Time Test Ended: 10:58:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4106.00 ft (KB) To 4150.00 ft (KB) (TVD)

Reference Elevations: 2581.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

2576.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8522**

Inside

Press@RunDepth: 56.66 psig @ 4107.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.12

End Date: 2018.03.12

Last Calib.: 2018.03.12

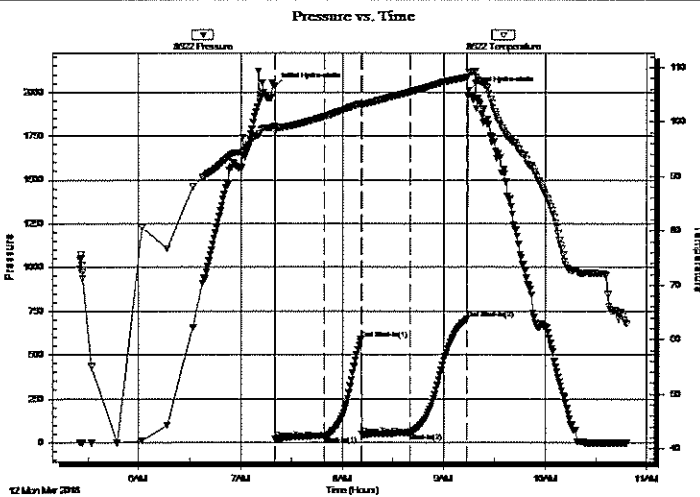
Start Time: 05:25:05

End Time: 10:48:14

Time On Btm: 2018.03.12 @ 07:20:00

Time Off Btm: 2018.03.12 @ 09:15:00

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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.67	99.21	Initial Hydro-static
1	22.74	98.07	Open To Flow (1)
30	39.77	100.94	Shut-In(1)
51	587.04	103.35	End Shut-In(1)
52	42.18	103.09	Open To Flow (2)
81	56.66	105.46	Shut-In(2)
114	703.15	108.13	End Shut-In(2)
115	2008.75	109.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	socm 2o 98m	0.39

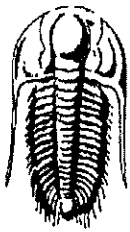
\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc

**3-16s-27w Lane, KS**

4924 SE 84th St.  
Newton, KS 67114

**Mendenhall #6**

Job Ticket: 65290

DST#: 5

ATTN: Ryan Seib

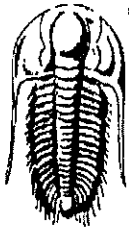
Test Start: 2018.03.12 @ 05:35:00

### Tool Information

Drill Pipe:	Length: 3968.00 ft	Diameter: 3.80 inches	Volume: 55.66 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4106.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 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			4080.00	
Shut In Tool	5.00			4085.00	
Hydraulic tool	5.00			4090.00	
Jars	5.00			4095.00	
Safety Joint	2.00			4097.00	
Packer	5.00			4102.00	27.00 Bottom Of Top Packer
Packer	4.00			4106.00	
Stubb	1.00			4107.00	
Recorder	0.00	8522	Inside	4107.00	
Recorder	0.00	8319	Outside	4107.00	
Perforations	7.00			4114.00	
Change Over Sub	1.00			4115.00	
Drill Pipe	31.00			4146.00	
Change Over Sub	1.00			4147.00	
Bullnose	3.00			4150.00	44.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>71.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65290

DST#: 5

ATTN: Ryan Seib

Test Start: 2018.03.12 @ 05:35:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.78 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 0 deg API

Water Salinity: 0 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	socm Zo 98m	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

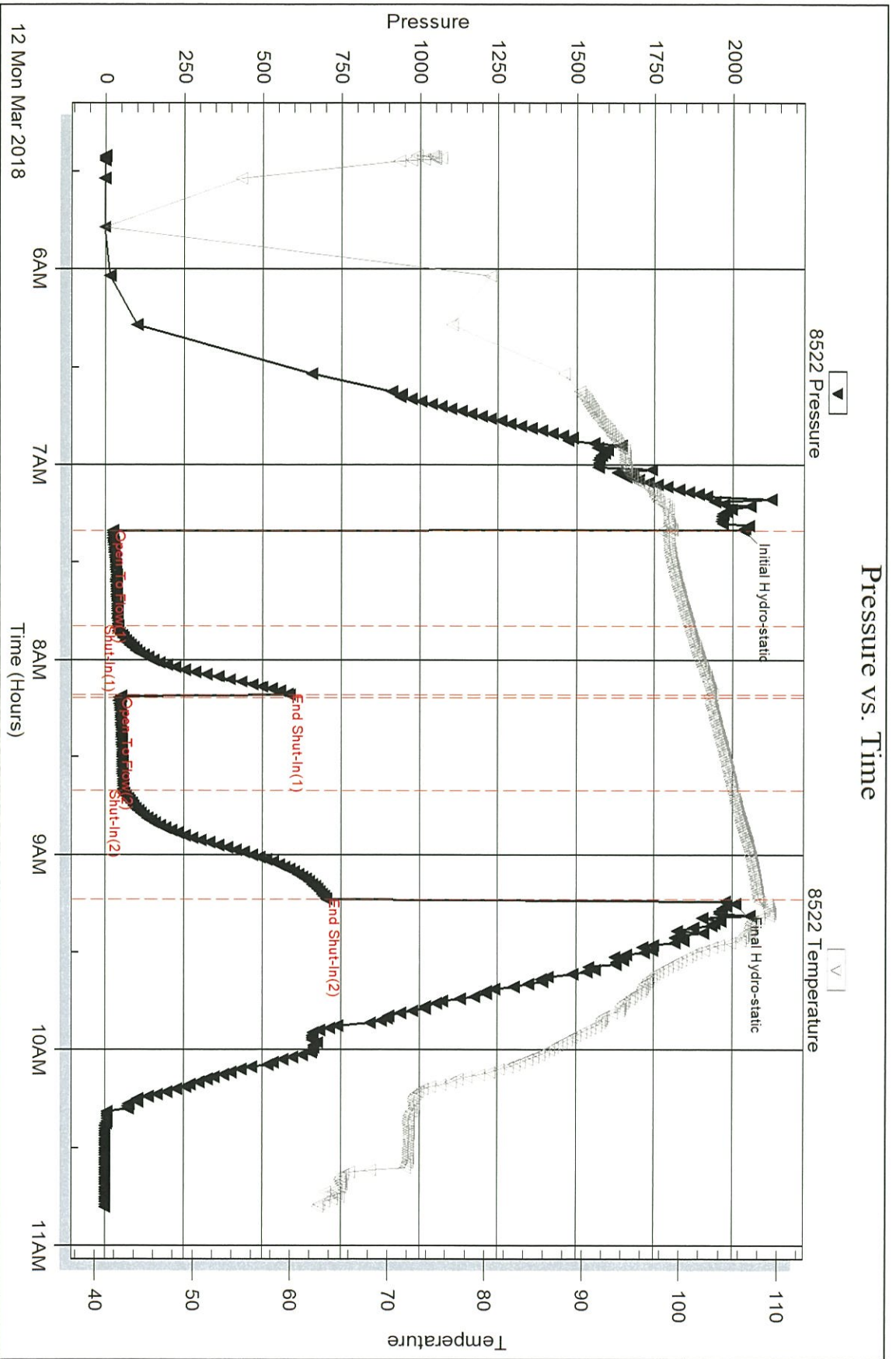
Serial #: 8522

Inside

Palomino Petroleum, Inc

Mendenhall #6

DST Test Number: 5



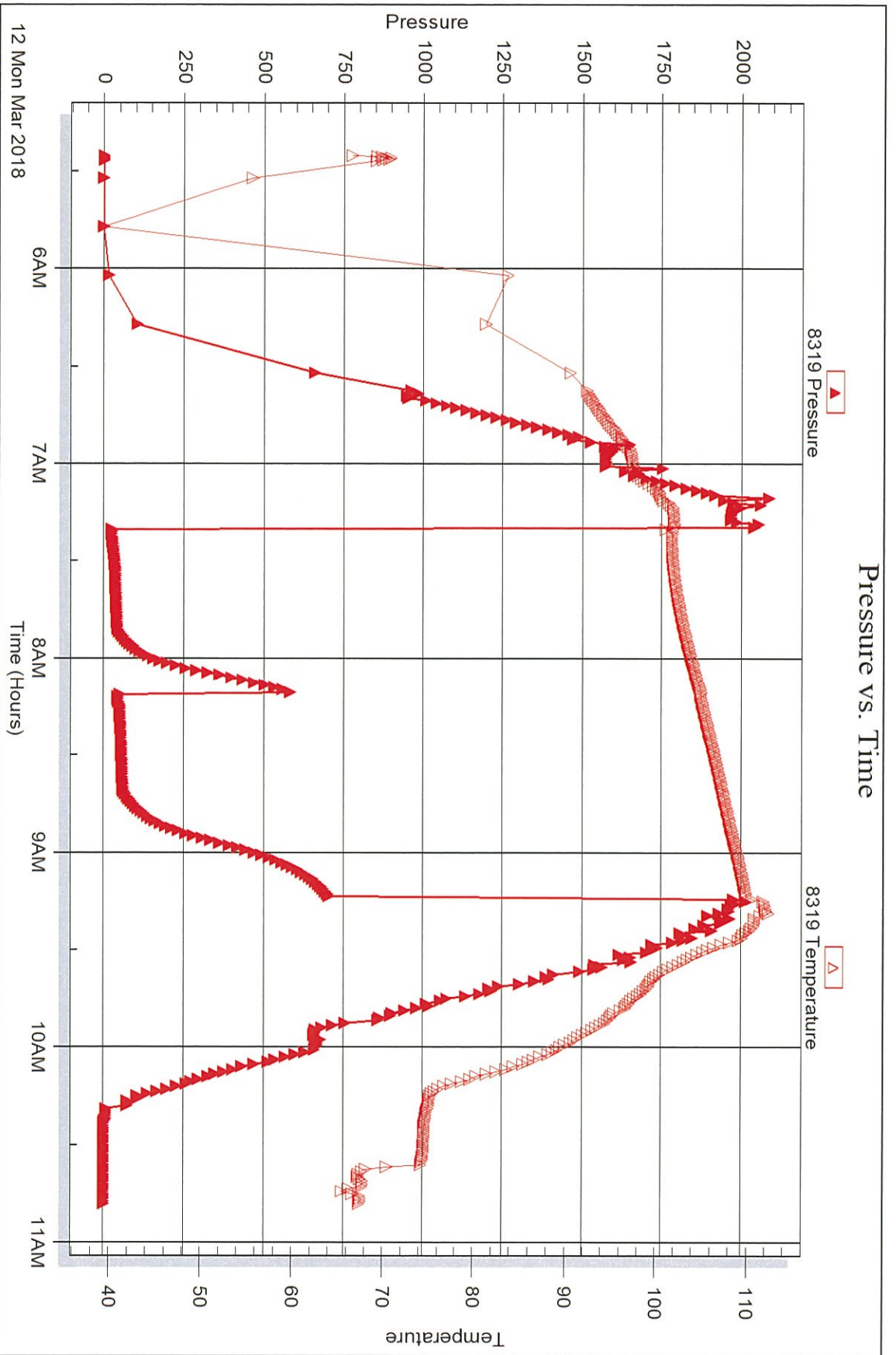
Serial #: 8319

Outside

Palomino Petroleum, Inc

Mendenhall #6

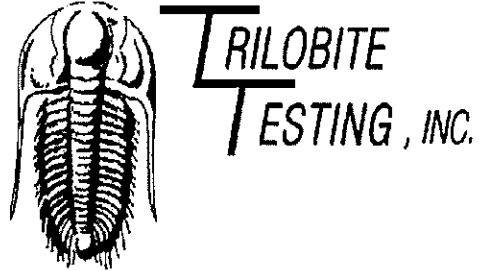
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65290

Printed: 2018.03.15 @ 10:22:47



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

### **Mendenhall #6**

### **3-16s-27w Lane,KS**

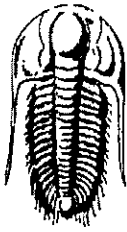
Start Date: 2018.03.13 @ 01:44:00

End Date: 2018.03.13 @ 09:25:15

Job Ticket #: 65291                      DST #: 6

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

Printed: 2018.03.15 @ 10:21:44



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65291

DST#: 6

ATTN: Ryan Seib

Test Start: 2018.03.13 @ 01:44:00

## GENERAL INFORMATION:

Formation: **Marmaton - Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:59:15

Time Test Ended: 09:25:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4136.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 2581.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

2576.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8522**

Inside

Press@RunDepth: 30.96 psig @ 4137.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.13

End Date:

2018.03.13

Last Calib.: 2018.03.13

Start Time: 01:44:05

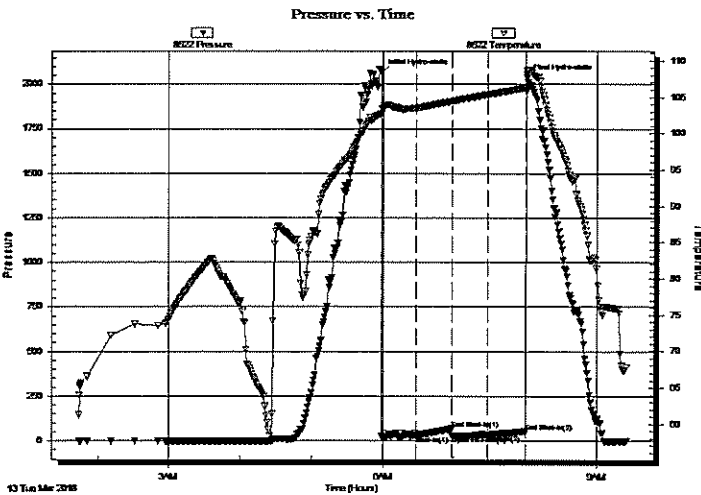
End Time:

09:25:14

Time On Btm: 2018.03.13 @ 05:58:15

Time Off Btm: 2018.03.13 @ 08:01:00

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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.26	102.69	Initial Hydro-static
1	22.99	103.29	Open To Flow (1)
30	29.69	103.45	Shut-In(1)
60	67.13	104.42	End Shut-In(1)
61	25.78	104.40	Open To Flow (2)
91	30.96	105.35	Shut-In(2)
122	51.26	106.26	End Shut-In(2)
123	2036.65	108.70	Final Hydro-static

## Recovery

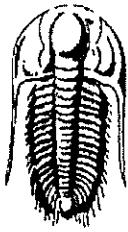
Length (ft)	Description	Volume (bbl)
15.00	mud 100m (oil spots in tool)	0.07

\* 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, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

Mendenhall #6

Job Ticket: 65291

DST#: 6

ATTN: Ryan Seib

Test Start: 2018.03.13 @ 01:44:00

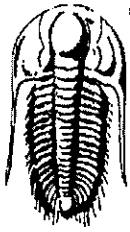
### Tool Information

Drill Pipe:	Length: 4000.00 ft	Diameter: 3.80 inches	Volume: 56.11 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4136.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	174.00 ft			
Tool Length:	201.00 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			4110.00	
Shut In Tool	5.00			4115.00	
Hydraulic tool	5.00			4120.00	
Jars	5.00			4125.00	
Safety Joint	2.00			4127.00	
Packer	5.00			4132.00	27.00 Bottom Of Top Packer
Packer	4.00			4136.00	
Stubb	1.00			4137.00	
Recorder	0.00	8522	Inside	4137.00	
Recorder	0.00	8319	Outside	4137.00	
Perforations	10.00			4147.00	
Change Over Sub	1.00			4148.00	
Drill Pipe	158.00			4306.00	
Change Over Sub	1.00			4307.00	
Bullnose	3.00			4310.00	174.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>201.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65291

DST#: 6

ATTN: Ryan Seib

Test Start: 2018.03.13 @ 01:44:00

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100m (oil spots in tool)	0.074

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:

Serial #: 8522

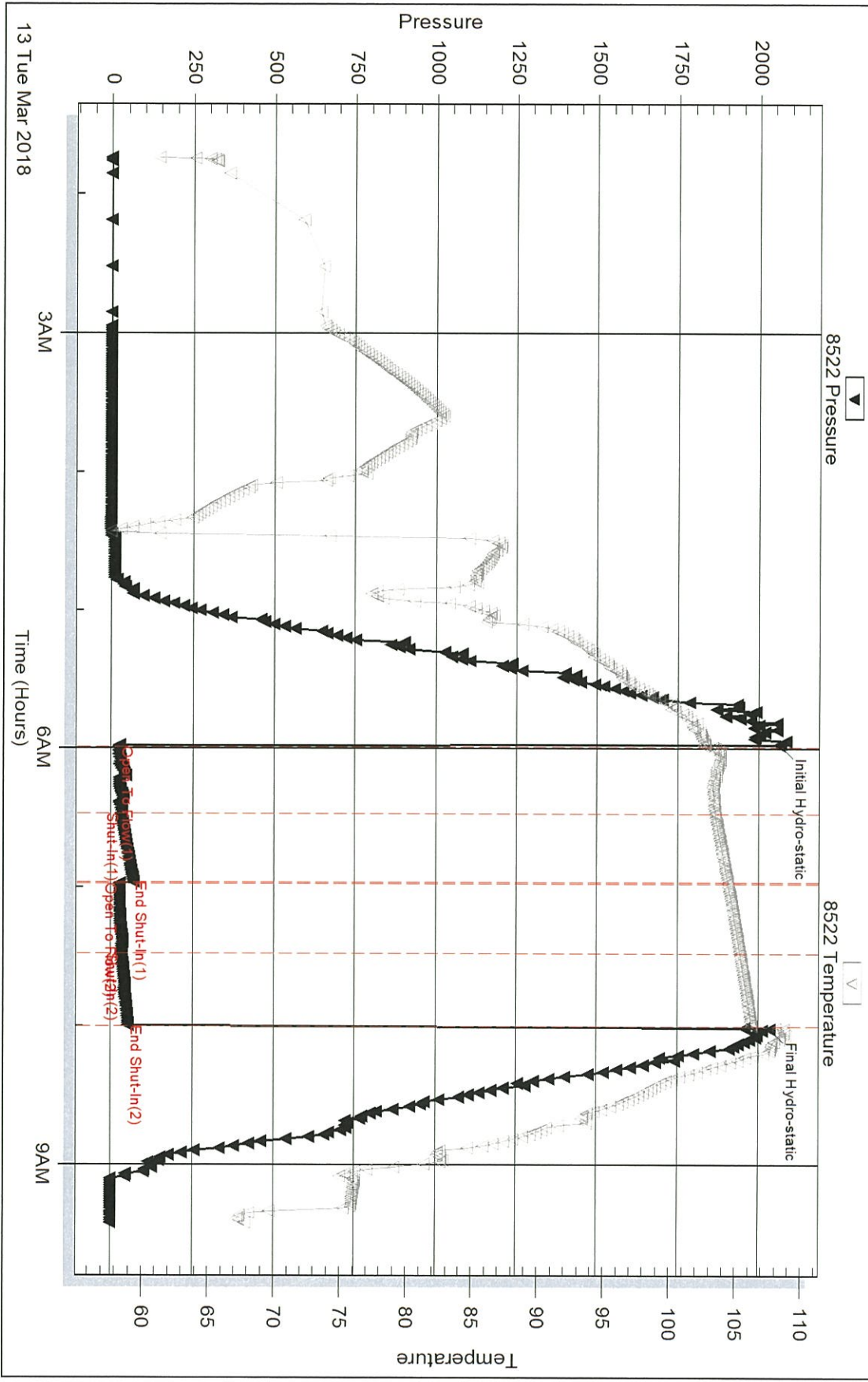
Inside

Palomino Petroleum, Inc

Mendenhall #6

DST Test Number: 6

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 65291

Printed: 2018.03.15 @ 10:21:46

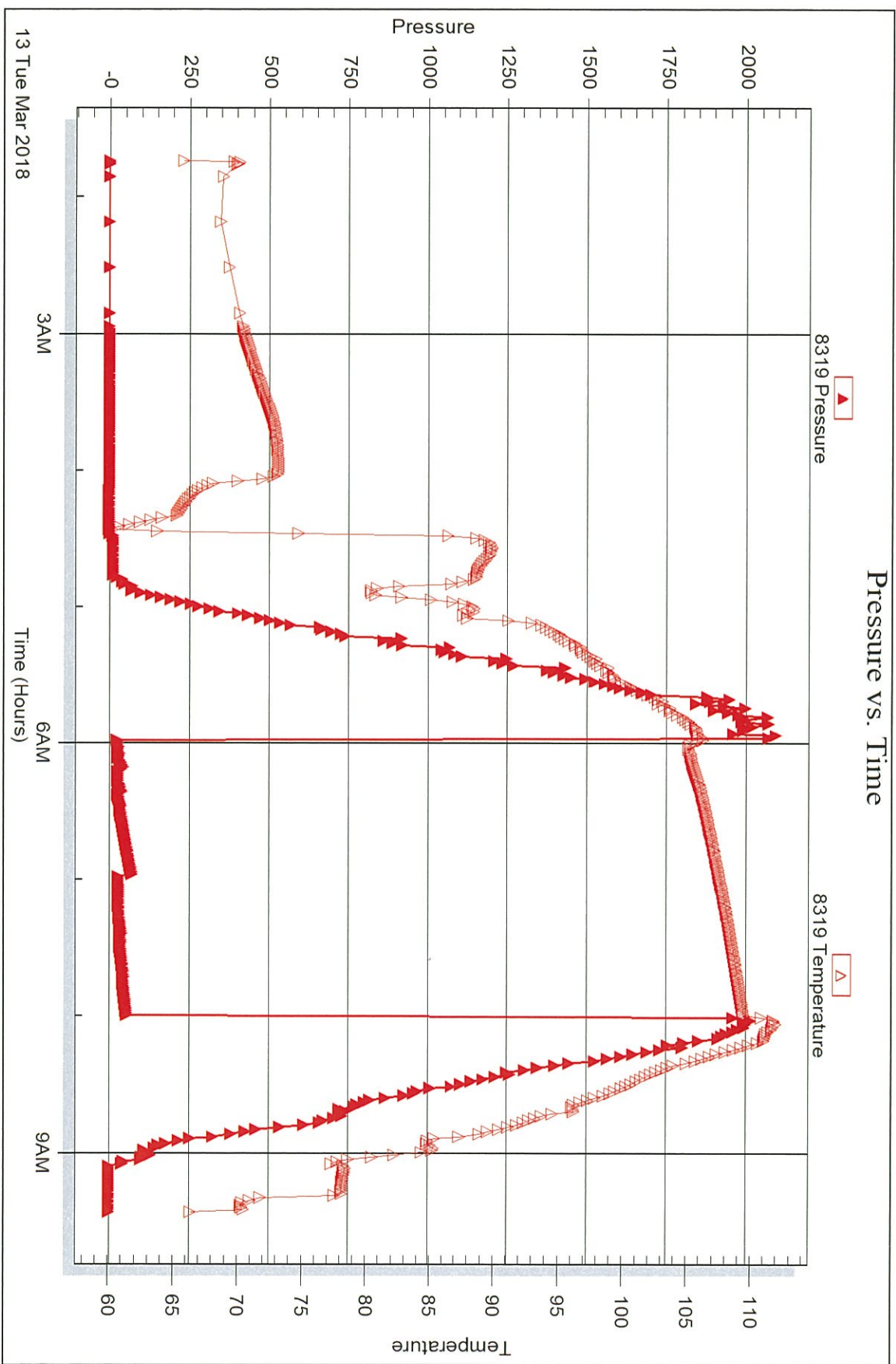
Serial #: 8319

Outside

Palomino Petroleum, Inc

Mendenhall #6

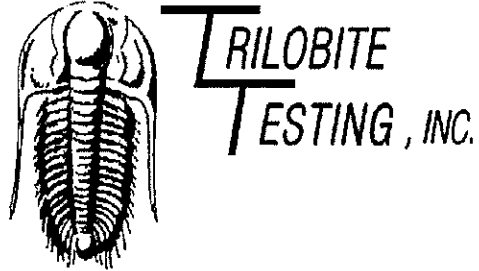
DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 65291

Printed: 2018.03.15 @ 10:21:46



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

### **Mendenhall #6**

### **3-16s-27w Lane,KS**

Start Date: 2018.03.13 @ 16:45:00

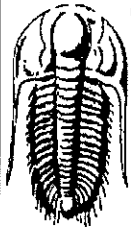
End Date: 2018.03.13 @ 23:12:30

Job Ticket #: 65292                      DST #: 7

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

Printed: 2018.03.15 @ 10:07:26

Palomino Petroleum, Inc  
3-16s-27w Lane,KS  
Mendenhall #6  
DST # 7  
Ft Scott  
2018.03.13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65292

DST#: 7

ATTN: Ryan Seib

Test Start: 2018.03.13 @ 16:45:00

## GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:14:15

Time Test Ended: 23:12:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Waller

Unit No: 78

Interval: 4300.00 ft (KB) To 4360.00 ft (KB) (TVD)

Total Depth: 4360.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2581.00 ft (KB)

2576.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8522** Inside

Press@RunDepth: 77.71 psig @ 4301.00 ft (KB)

Start Date: 2018.03.13

End Date:

2018.03.13

Capacity: 8000.00 psig

Last Calib.: 2018.03.13

Start Time: 16:45:05

End Time:

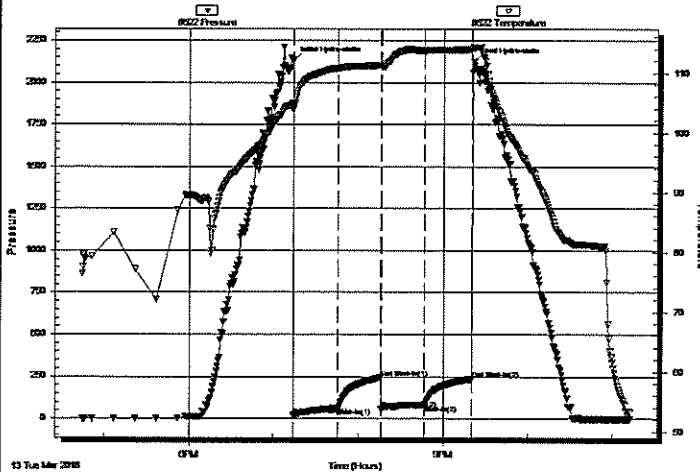
23:12:29

Time On Btm: 2018.03.13 @ 19:14:00

Time Off Btm: 2018.03.13 @ 21:21:30

TEST COMMENT: IF: BOB @ 6 min.  
IS: No return.  
FF: BOB @ 11 min.  
FSI: Surface return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2127.90	104.97	Initial Hydro-static
1	16.78	103.75	Open To Flow (1)
32	62.14	110.72	Shut-In(1)
62	243.87	111.17	End Shut-In(1)
63	54.98	110.97	Open To Flow (2)
93	77.71	113.72	Shut-In(2)
127	234.76	113.92	End Shut-In(2)
128	2120.81	114.11	Final Hydro-static

## Recovery

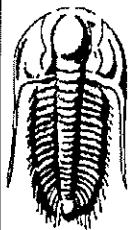
Length (ft)	Description	Volume (bbl)
120.00	gocm 25g 15o 60m	0.59
40.00	gm 30g 70m (oil spots)	0.54
0.00	300' GIP	0.00

\* 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, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65292

DST#: 7

ATTN: Ryan Seib

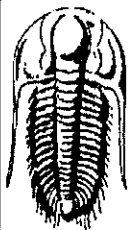
Test Start: 2018.03.13 @ 16:45:00

### Tool Information

Drill Pipe:	Length: 4158.00 ft	Diameter: 3.80 inches	Volume: 58.33 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4300.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 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			4274.00	
Shut In Tool	5.00			4279.00	
Hydraulic tool	5.00			4284.00	
Jars	5.00			4289.00	
Safety Joint	2.00			4291.00	
Packer	5.00			4296.00	27.00 Bottom Of Top Packer
Packer	4.00			4300.00	
Stubb	1.00			4301.00	
Recorder	0.00	8522	Inside	4301.00	
Recorder	0.00	8319	Outside	4301.00	
Perforations	23.00			4324.00	
Change Over Sub	1.00			4325.00	
Drill Pipe	31.00			4356.00	
Change Over Sub	1.00			4357.00	
Bullnose	3.00			4360.00	60.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>87.00</b>				



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

Mendenhall #6

Job Ticket: 65292

DST#: 7

ATTN: Ryan Seib

Test Start: 2018.03.13 @ 16:45:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	gocm 25g 15o 60m	0.590
40.00	gm 30g 70m (oil spots)	0.543
0.00	300' GIP	0.000

Total Length: 160.00 ft

Total Volume: 1.133 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



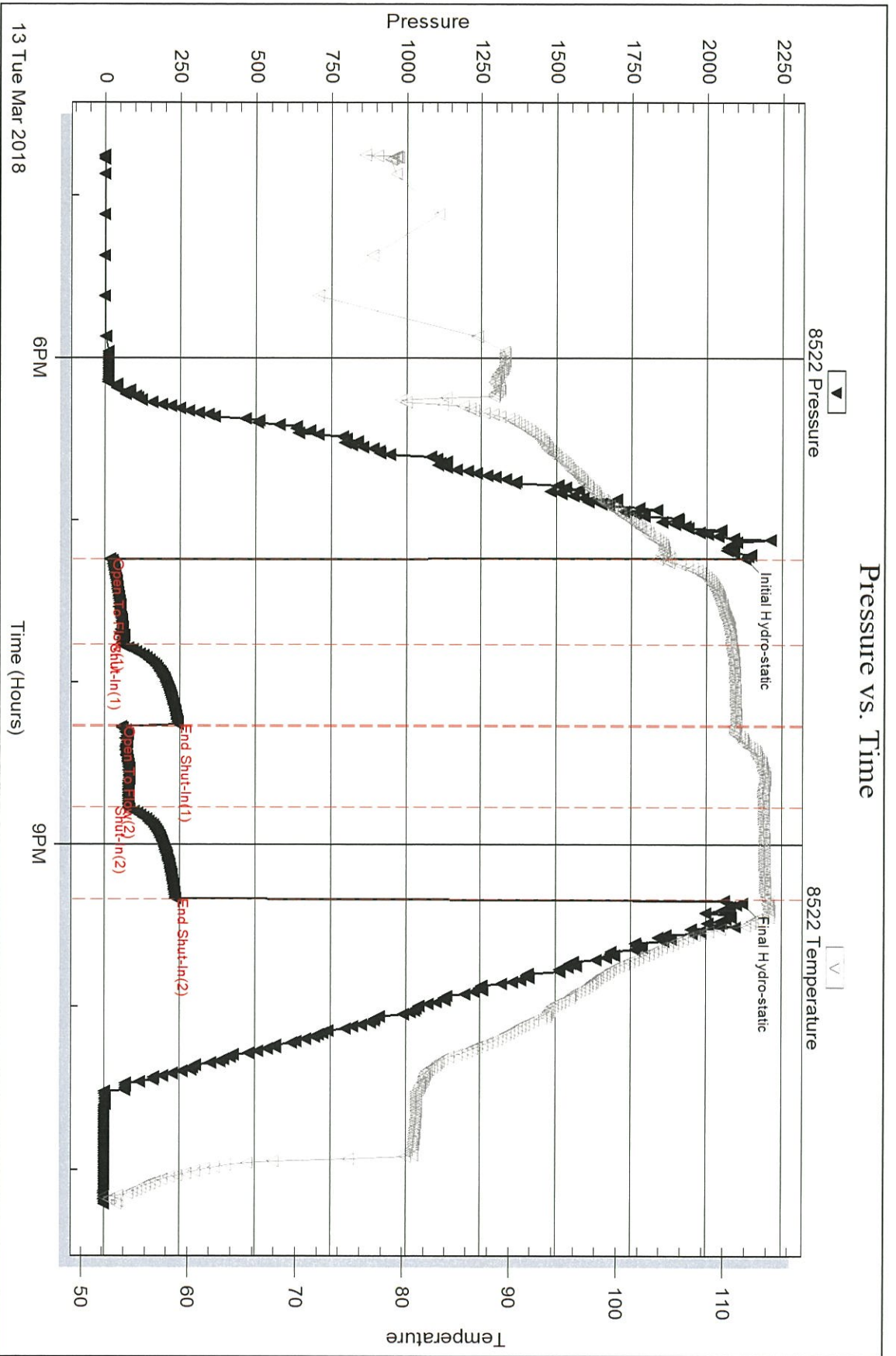
Serial #: 8522

Inside

Palomino Petroleum, Inc

Mendenhall #6

DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 65292

Printed: 2018.03.15 @ 10:07:27

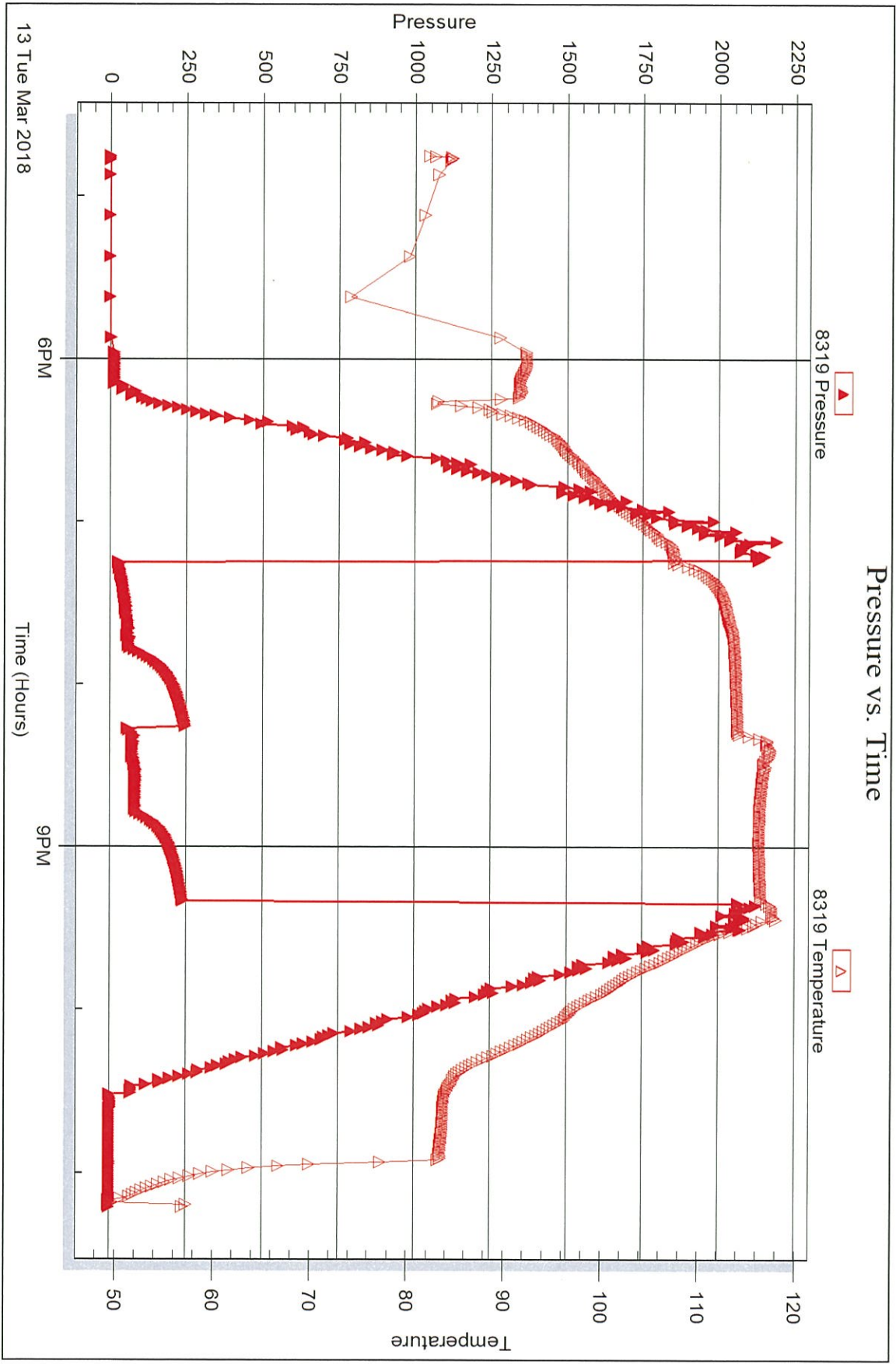
Serial #: 8319

Outside

Palomino Petroleum, Inc

Mendenhall #6

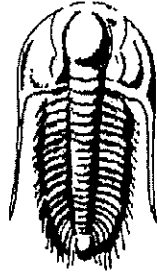
DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 65292

Printed: 2018.03.15 @ 10:07:27



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

**Mendenhall #6**

**3-16s-27w Lane,KS**

Start Date: 2018.03.14 @ 09:48:00

End Date: 2018.03.14 @ 15:40:15

Job Ticket #: 65293                      DST #: 8

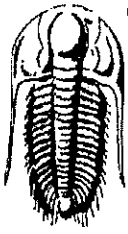
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2018.03.15 @ 10:06:16

Palomino Petroleum, Inc  
3-16s-27w Lane,KS  
Mendenhall #6  
DST # 8  
Mississippian  
2018.03.14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

**Mendenhall #6**

Job Ticket: 65293

DST#: 8

ATTN: Ryan Seib

Test Start: 2018.03.14 @ 09:48:00

## GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:48:00

Time Test Ended: 15:40:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4441.00 ft (KB) To 4453.00 ft (KB) (TVD)**

Reference Elevations: 2581.00 ft (KB)

Total Depth: 4453.00 ft (KB) (TVD)

2576.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8522**

Inside

Press@RunDepth: 44.95 psig @ 4442.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.14

End Date: 2018.03.14

Last Calib.: 2018.03.14

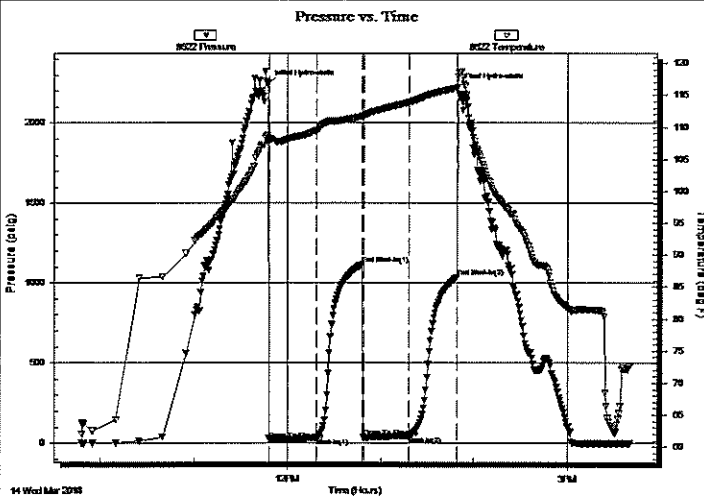
Start Time: 09:48:05

End Time: 15:40:14

Time On Btm: 2018.03.14 @ 11:47:15

Time Off Btm: 2018.03.14 @ 13:50:00

TEST COMMENT: IF: 1 1/2" blow.  
IS: No return.  
FF: 1 1/2" blow.  
FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.38	108.70	Initial Hydro-static
1	21.01	108.09	Open To Flow (1)
31	31.05	109.44	Shut-In(1)
61	1115.87	111.69	End Shut-In(1)
62	34.41	111.64	Open To Flow (2)
92	44.95	113.91	Shut-In(2)
122	1036.93	116.17	End Shut-In(2)
123	2224.69	117.97	Final Hydro-static

## Recovery

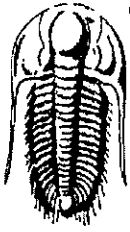
Length (ft)	Description	Volume (bbl)
60.00	omcw 3 37m 60w	0.30
40.00	oil 100o	0.20

\* 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, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

Mendenhall #6

Job Ticket: 65293

DST#: 8

ATTN: Ryan Seib

Test Start: 2018.03.14 @ 09:48:00

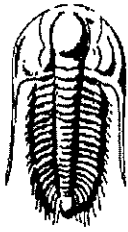
### Tool Information

Drill Pipe:	Length: 4316.00 ft	Diameter: 3.80 inches	Volume: 60.54 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4441.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	39.00 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			4415.00	
Shut In Tool	5.00			4420.00	
Hydraulic tool	5.00			4425.00	
Jars	5.00			4430.00	
Safety Joint	2.00			4432.00	
Packer	5.00			4437.00	27.00 Bottom Of Top Packer
Packer	4.00			4441.00	
Stubb	1.00			4442.00	
Recorder	0.00	8522	Inside	4442.00	
Recorder	0.00	8319	Outside	4442.00	
Perforations	8.00			4450.00	
Bullnose	3.00			4453.00	12.00 Bottom Packers & Anchor

**Total Tool Length: 39.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum, Inc

3-16s-27w Lane, KS

4924 SE 84th St.  
New ton, KS 67114

Mendenhall #6

Job Ticket: 65293

DST#: 8

ATTN: Ryan Seib

Test Start: 2018.03.14 @ 09:48:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
60.00	omcw 3 37m 60w	0.295
40.00	oil 100o	0.197

Total Length: 100.00 ft      Total Volume: 0.492 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .191 @ 79f = 32000ppm

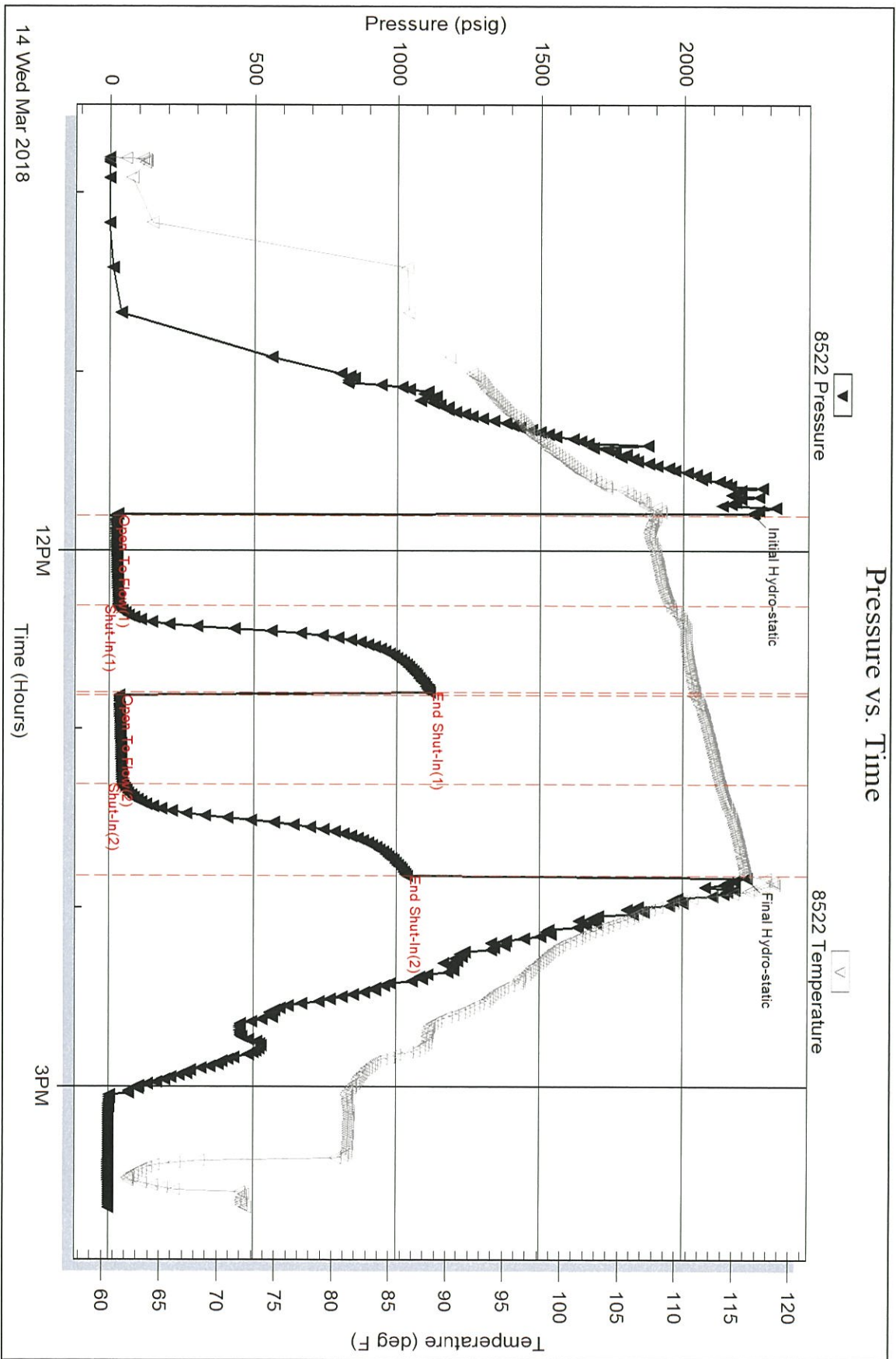
Serial #: 8522

Inside

Palomino Petroleum, Inc

Mendenhall #6

DST Test Number: 8



14 Wed Mar 2018

12PM

Time (Hours)

3PM

Trilobite Testing, Inc

Ref. No: 65293

Printed: 2018.03.15 @ 10:06:18



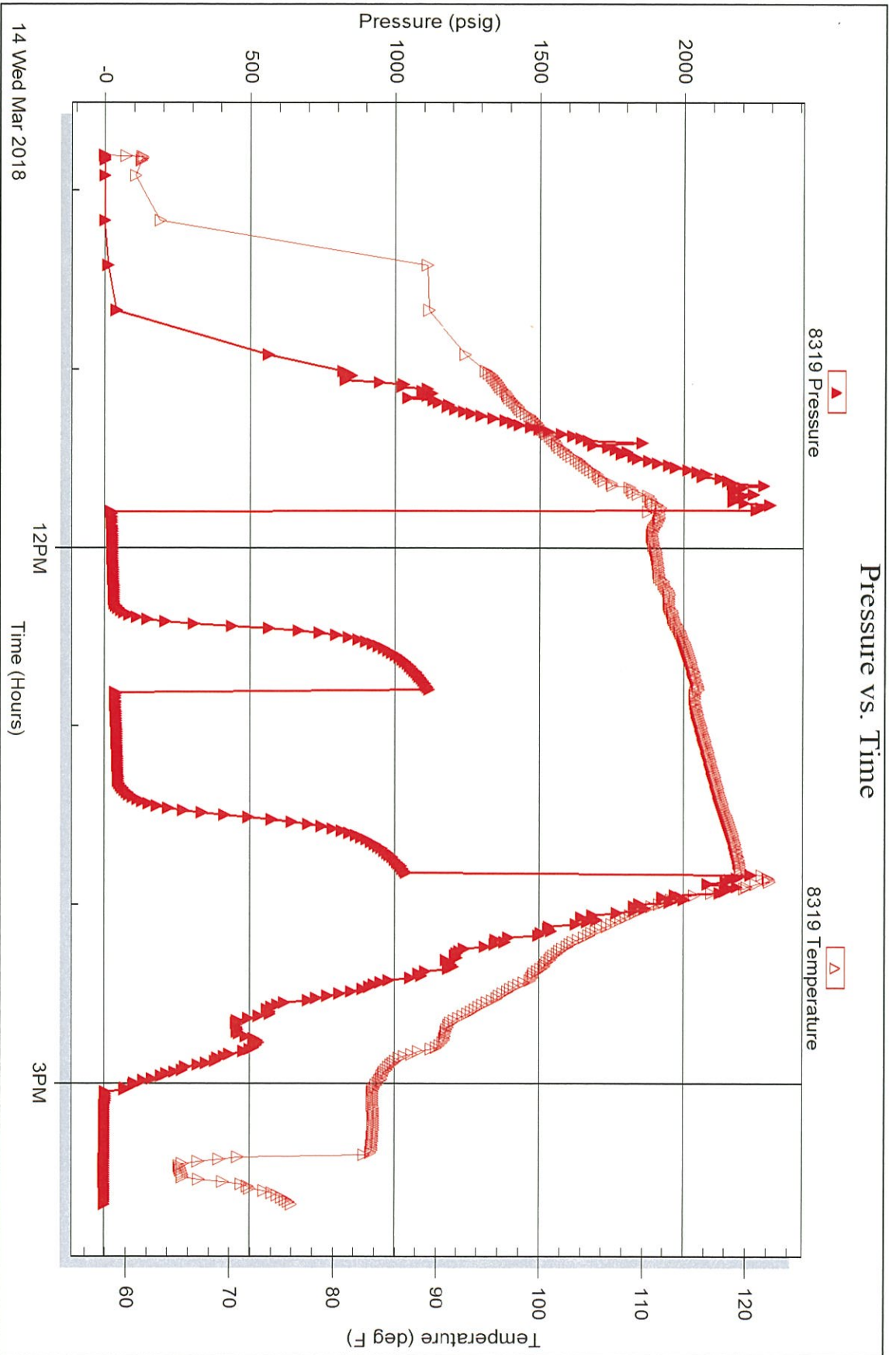
Serial #: 8319

Outside

Palorino Petroleum, Inc

Mendenhall #6

DST Test Number: 8



Trilobite Testing, Inc

Ref. No: 65293

Printed: 2018.03.15 @ 10:06:18



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65285

Well Name & No. Mendenhall #6 Test No. 1 Date 3/10/2018  
 Company Palomino Petroleum, Inc Elevation 2581 KB 2576 GL  
 Address 4924 SE 84<sup>th</sup> St Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW #10  
 Location: Sec. 3 Twp. 16s Rge. 27 W Co. Lane State Ks

Interval Tested 3912 - 3940 Zone Tested LKC E + F  
 Anchor Length 28' Drill Pipe Run 3778 Mud Wt. 8.9  
 Top Packer Depth 3907 Drill Collars Run 122 Vis 6.3  
 Bottom Packer Depth 3912 Wt. Pipe Run Ø WL 6.4  
 Total Depth 3940 Chlorides 1200 ppm System LCM 2 #

Blow Description IF! 3" blow  
ISI! No return.  
FF! 1 1/4" blow.  
FSI! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>MCU</u>		<u>70</u>	<u>30</u>	
	<u>oil spike in tool</u>				

Rec Total 100 BHT 112 Gravity — API RW 1399 @ 47 °F Chlorides 26000 ppm

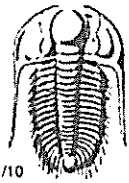
(A) Initial Hydrostatic <u>1904</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1920</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1932</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2138</u>
(D) Initial Shut-In <u>1037</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2340</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0113</u>
(F) Second Final Flow <u>68</u>	<input checked="" type="checkbox"/> Mileage <u>93 RT 93</u>	Comments
(G) Final Shut-In <u>1021</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1879</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>168</u>
Sub Total <u>168</u>		MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

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

785 623 1407



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65286

Well Name & No. Nordenhall #6 Test No. 2 Date 3/10/2018  
 Company Palomino Petroleum, Inc Elevation 2581 KB 2576 GL  
 Address 4924 SE 84th St, Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW#10  
 Location: Sec. 3 Twp. 16s Rge. 27W Co. Lane State Ks

Interval Tested 3980-4044 Zone Tested LKC H-I  
 Anchor Length 64' Drill Pipe Run 3841 Mud Wt. 8.9  
 Top Packer Depth 3975- Drill Collars Run # 122 Vis 56  
 Bottom Packer Depth 3980 Wt. Pipe Run 0 WL 6.0  
 Total Depth 4044 Chlorides 4700 ppm System LCM 2#

Blow Description IF BOB @ 1 min  
ISI BOB @ 5 min  
FF BOB @ 30 sec.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1170</u>	<u>60</u>	<u>40</u>	<u>60</u>		
<u>180</u>	<u>G.M.C.O</u>	<u>35</u>	<u>35</u>		<u>30</u>

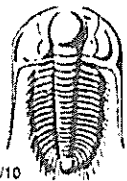
Rec Total 1350 BHT 124 Gravity 39 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1948  Test 1150 T-On Location 1115  
 (B) First Initial Flow 163  Jars 250 T-Started 1154  
 (C) First Final Flow 341  Safety Joint 75 T-Open 1342  
 (D) Initial Shut-In 956  Circ Sub used T-Pulled 1512  
 (E) Second Initial Flow 353  Hourly Standby \_\_\_\_\_ T-Out 1920  
 (F) Second Final Flow 511  Mileage 93.27 93 Comments \_\_\_\_\_  
 (G) Final Shut-In 942  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1909  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 75  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Total 1568  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1568

Approved By \_\_\_\_\_ Our Representative

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65288

Well Name & No. Mendenhall #6 Test No. 3 Date 3/4/2018  
 Company Palomino Petroleum Inc Elevation 2591 KB 2576 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW 10  
 Location: Sec. 3 Twp. 16S Rge. 27W Co. Lane State Ks

Interval Tested 4050 - 4082 Zone Tested CKC J  
 Anchor Length 32 Drill Pipe Run 3905 Mud Wt. 8.9  
 Top Packer Depth 4025 Drill Collars Run 122 Vis 56  
 Bottom Packer Depth 4050 Wt. Pipe Run 0 WL 6.0  
 Total Depth 4082 Chlorides 4700 ppm System LCM 2#

Blow Description IF 1" blow  
ISI No return.  
PF 1/2" blow  
PSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MUD</u>			<u>100</u>	
	<u>oil spots</u>				

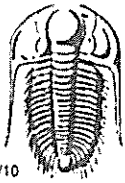
Rec Total 15 BHT 108 Gravity - API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1989  Test 1150 T-On Location 2312  
 (B) First Initial Flow 16  Jars 250 T-Started 2554  
 (C) First Final Flow 21  Safety Joint 75 T-Open 0356  
 (D) Initial Shut-In 53  Circ Sub M/C T-Pulled 0556  
 (E) Second Initial Flow 14  Hourly Standby \_\_\_\_\_ T-Out 0755  
 (F) Second Final Flow 20  Mileage 93RT 93 Comments \_\_\_\_\_  
 (G) Final Shut-In 43  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1969  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Sub Total 1568  Accessibility \_\_\_\_\_ Total 1568  
 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. 65289

Well Name & No. Mendenhall #6 Test No. 4 Date 3/11/2018  
 Company Palomino Petroleum Inc Elevation 2581 KB 2576 GL  
 Address 4924 SE 84th St Newton KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW #10  
 Location: Sec. 3 Twp. W 5 Rge. 27 W Co. Lane State KS

Interval Tested 4074 - 4104 Zone Tested LKC K  
 Anchor Length 30 Drill Pipe Run 5935 Mud Wt. 8.9  
 Top Packer Depth 4069 Drill Collars Run 122 Vis 5.6  
 Bottom Packer Depth 4074 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4104 Chlorides 4200 ppm System LCM 2 #

Blow Description IF: BOB @ 4 min  
ISI: No return.  
FF: BOB @ 3 min  
FSF: No return.

Rec	Feet of	%gas	%oil	%water	%mud
40	GMCO	40	55	5	
170	GMCO	45	30	25	
	1100' SIP				

Rec Total 210 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2007  Test 1150 T-On Location 1600  
 (B) First Initial Flow 34  Jars 250 T-Started 1625  
 (C) First Final Flow 65  Safety Joint 75 T-Open 1752  
 (D) Initial Shut-In 499  Circ Sub N/C T-Pulled 1952  
 (E) Second Initial Flow 63  Hourly Standby \_\_\_\_\_ T-Out 2138  
 (F) Second Final Flow 93  Mileage 93 RT 93 Comments \_\_\_\_\_  
 (G) Final Shut-In 481  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1980  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1568  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc'd \_\_\_\_\_  
 Final Shut-In 30  Sub Total 1568

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65290

Well Name & No. Mendenhall #6 Test No. 5 Date 3/12/2016  
 Company Palomino Petroleum, Inc Elevation 2581 KB 2576 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Ryan Sab Rig WW #10  
 Location: Sec. 3 Twp. 16S Rge. 27W Co. Lawrence State Ks

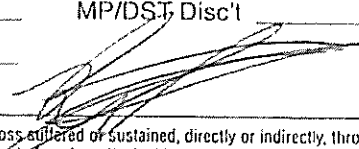
Interval Tested 4106 - 4150 Zone Tested LKC L  
 Anchor Length 44 Drill Pipe Run 3968 Mud Wt. 9.9  
 Top Packer Depth 4101 Drill Collars Run 120 Vis 57  
 Bottom Packer Depth 4106 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4150 Chlorides 4200 ppm System LCM 2#  
 Blow Description IF 3" blow  
II No return  
FF 3" blow  
FST No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>500M</u>	<u>2</u>		<u>98</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 80 BHT 108 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2033  Test 1150 T-On Location 0500  
 (B) First Initial Flow 23  Jars 250 T-Started 0525  
 (C) First Final Flow 40  Safety Joint 75 T-Open 0720  
 (D) Initial Shut-In 587  Circ Sub N/C T-Pulled 0920  
 (E) Second Initial Flow 42  Hourly Standby \_\_\_\_\_ T-Out 1048  
 (F) Second Final Flow 57  Mileage TRT 93 Comments \_\_\_\_\_  
 (G) Final Shut-In 703  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2009  Straddle \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 30  Extra Recorder \_\_\_\_\_  
 Sub Total 0  
 Total 1568  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1568

Approved By \_\_\_\_\_ Our Representative 

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65291

Well Name & No. Mendenhall #6 Test No. 6 Date 3/13/2018  
 Company Palomino Petroleum, Inc Elevation 2581 KB 2576 GL  
 Address 4924 SE 84<sup>th</sup> St Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW #10  
 Location: Sec. 3 Twp. 16s Rge. 27W Co. Lane State Ks

Interval Tested 4136 4310 Zone Tested Marmaton-Pawnee  
 Anchor Length 174' Drill Pipe Run 4000 Mud Wt. 9.1  
 Top Packer Depth 4131 Drill Collars Run 122 Vis 52  
 Bottom Packer Depth 4136 Wt. Pipe Run Ø WL 6.8  
 Total Depth 4310 Chlorides 4300 ppm System LCM 2<sup>#</sup>

Blow Description IF 1" blow  
BE No return  
FE No blow  
FST No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MUD</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 15 BHT 106 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2063  Test 1586 T-On Location 0115  
 (B) First Initial Flow 23  Jars 250 T-Started 0145  
 (C) First Final Flow 30  Safety Joint 75 T-Open 0558  
 (D) Initial Shut-In 67  Circ Sub N/C T-Pulled 0758  
 (E) Second Initial Flow 26  Hourly Standby \_\_\_\_\_ T-Out 0925  
 (F) Second Final Flow 31  Mileage 93 RT 93 Comments \_\_\_\_\_  
 (G) Final Shut-In 51  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2037  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Sub Total 1568  Accessibility \_\_\_\_\_  
 Total 1568  Ruined Shale Packer \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Sub Total 0  Extra Copies \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65292

Well Name & No. Mendenhall #6 Test No. 17 Date 3/13/2018  
 Company Palomino Petroleum, Inc Elevation 2591 KB 2576 GL  
 Address 4924 SE 84th st Newton, Ks 67114  
 Co. Rep / Geo. Ryan Seib Rig WW# 10  
 Location: Sec. 3 Twp. 1605 Rge. 27W Co. Lane State Ks

Interval Tested 4300 - 4360 Zone Tested FL Scott  
 Anchor Length 60 Drill Pipe Run 4155 Mud Wt. 9.0  
 Top Packer Depth 4137 4295 Drill Collars Run 122 Vis 55  
 Bottom Packer Depth 4136 4300 Wt. Pipe Run 0 WL 80  
 Total Depth 4360 Chlorides 4700 ppm System LCM 2#

Blow Description JF BOB @ 6 min.  
ISI No return.  
FF BOB @ 11 min  
FSI No retu Surface Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>6 m oil spots</u>	<u>3</u>		<u>70</u>	
<u>20</u>	<u>60 cm</u>	<u>25</u>	<u>15</u>	<u>60</u>	
	<u>300' @ JF</u>				

Rec Total 160 BHT 114 Gravity — API RW — @ — °F Chlorides — ppm

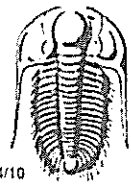
(A) Initial Hydrostatic <u>2128</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1615</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1645</u>
(C) First Final Flow <u>62</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1919</u>
(D) Initial Shut-In <u>244</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2120</u>
(E) Second Initial Flow <u>55</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2312</u>
(F) Second Final Flow <u>78</u>	<input checked="" type="checkbox"/> Mileage <u>92 KT 93</u>	Comments
(G) Final Shut-In <u>235</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2121</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1568</u>
Sub Total <u>1568</u>		MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative 

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65293

Well Name & No. Mendenhall #6 Test No. 8 Date 3/14/2018  
 Company Palomino Petroleum Inc Elevation 2581 KB 2576 GL  
 Address 4924 SE 84th St. Newton, Ks 67114  
 Co. Rep / Geo. Ryan Seib Rig WW # 10  
 Location: Sec. 3 Twp. 16s Rge. 27w Co. Lane State Ks

Interval Tested 4441 - 4453 Zone Tested Mississippian  
 Anchor Length 12' Drill Pipe Run 4316 Mud Wt. 9.1  
 Top Packer Depth 4436 Drill Collars Run 122 Vis 55  
 Bottom Packer Depth 4441 Wt. Pipe Run 8 WL 8.0  
 Total Depth 4453 Chlorides 4600 ppm System LCM 2#

Blow Description IF 1 1/2" blow  
ISI No return  
FF 1 1/2" blow.  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Oil</u>	<u>100</u>			
<u>60</u>	<u>Oil</u>	<u>3</u>	<u>60</u>	<u>37</u>	

Rec Total 100 BHT 116 Gravity 38 API RW 191 @ 79 °F Chlorides 32000 ppm

(A) Initial Hydrostatic 2241  Test 1150 T-On Location 0915  
 (B) First Initial Flow 21  Jars 250 T-Started 0946  
 (C) First Final Flow 31  Safety Joint 75 T-Open 1148  
 (D) Initial Shut-In 1116  Circ Sub 1/1 T-Pulled 1348  
 (E) Second Initial Flow 34  Hourly Standby \_\_\_\_\_ T-Out 1540  
 (F) Second Final Flow 45  Mileage 93 24 93 Comments \_\_\_\_\_  
 (G) Final Shut-In 1037  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2225  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1568  
 Sub Total 1568  
 Total 1568  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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W. Seib  
Petroleum Geologist

D. F. Knoka

Mass City, MS 37560

( 5) 798-3388

W. Seib  
PETROLEUM  
SAMPLE LOG

Palomino Petroleum

Mendenhall #6

W.D.

2518' FSL + 2298' FEL

3 TRF. 165 R.F. = 27w

Lane STATE KS

WU Drilling Rig #10

315/118 3115/118

4560' 4562'

3500' RTD

3500' ATD

3500' RTD

3500' RTD

3450' Chemical

15-101-22625

Anhydrite	1990 (+591)	1992 (-589)
Topeka	3559 (-978)	3561 (-980)
Heebner	3801 (-1220)	3801 (-1220)
Lansing	3841 (-1260)	3841 (-1260)
Stark	4077 (-1496)	4077 (-1496)
BHC	4139 (-1558)	4141 (-1560)
Marathon	4170 (-1589)	4169 (-1588)
Pawnee	4273 (-1692)	4262 (-1688)
Ft. Scott	4327 (-1746)	4325 (-1744)
Cherokee sl	4354 (-1773)	4352 (-1771)
Miss. ss. sp. an	4442 (-1861)	4441 (-1860)

ENTIRE

2581'

2526'

KB

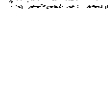
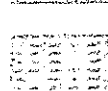
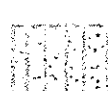
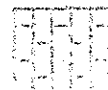
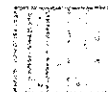
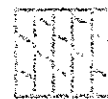
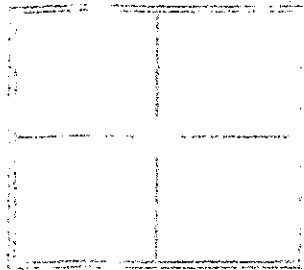
8 5/8" @

218'

5 1/2"

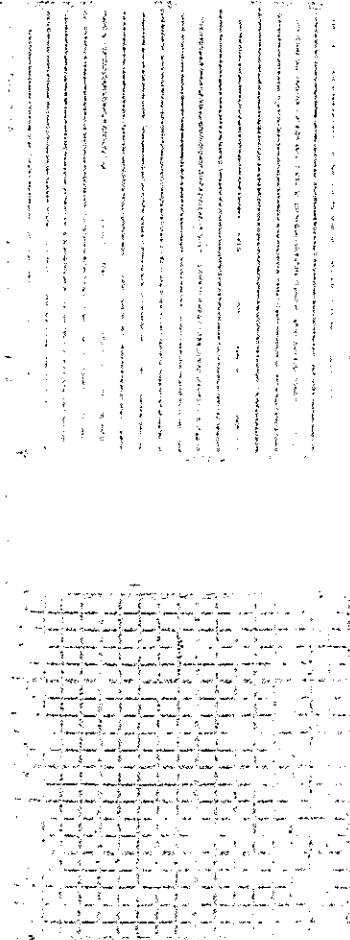
CNO, DIL,

Micro



WELL LOG OF MENDENHALL #6 WITH DATA CALLING OUT

SCALE " = 100'



Reservoir + 5' - 10' - 15' - 20' - 25' - 30' - 35' - 40' - 45' - 50' - 55' - 60' - 65' - 70' - 75' - 80' - 85' - 90' - 95' - 100'

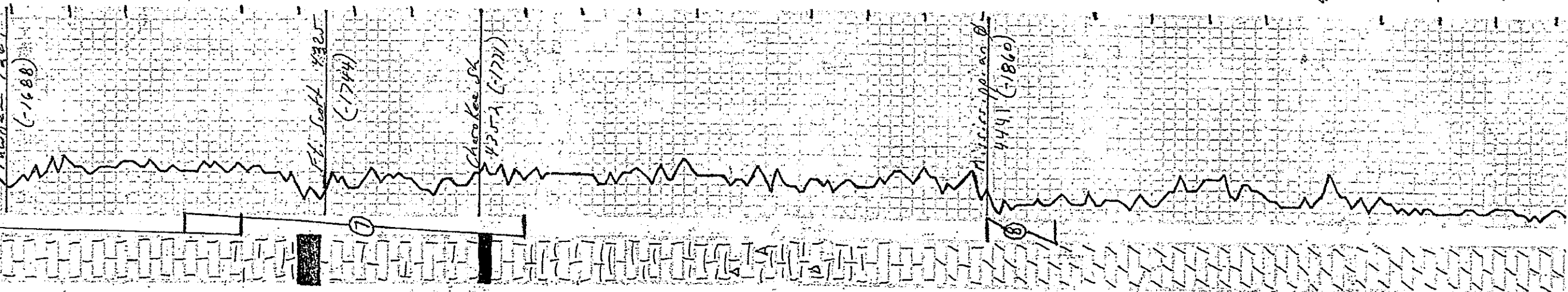
3500

10









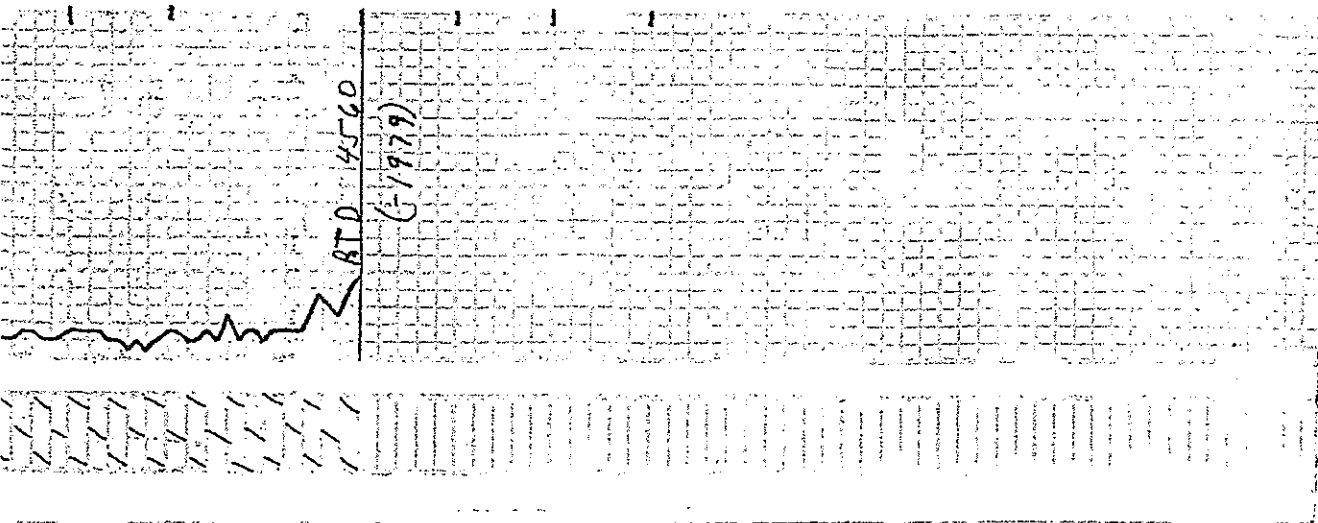
HP-2063#-2033#  
 IFF-20#-30# FFP-24#-31#  
 IFF-20#-30# FFP-24#-31#  
 Mud ✓ @ 4311'  
 wt. 8.1  
 V.S. 55  
 GL-8.0  
 CLK-4,700  
 CCN-2#

DST # 7 4800-4360'  
 30-30-30-30  
 Rec. 140' TF 300' IFF  
 IFF-60.6-6" IFF-Dead  
 IFF-60.6-11" IFF-14"  
 40 gm oil spots (70% oil)  
 120' gcmc (25% oil, 15% oil, 60% oil)  
 HP-2128#-2121#  
 IFF-17#-62# FFP-55#-78#  
 IFF-20#-30# FFP-24#-31#

Mud ✓ @ 4453'  
 wt. 9.1  
 V.S. 54  
 GL-8.0  
 CLK-4,600  
 CCN-2#

DST # 8 4441-4453'  
 30-30-30-30  
 Rec. 100' TF  
 IFF-14"  
 IFF-14"  
 40' oil (100% oil)  
 60' DMCW (30% oil, 60% oil, 30% oil)  
 HP-2241#-2225#  
 IFF-21#-31# FFP-34#-45#  
 IFF-20#-30# FFP-24#-31#

HP-2063#-2033#  
 IFF-20#-30# FFP-24#-31#  
 IFF-20#-30# FFP-24#-31#  
 Mud ✓ @ 4311'  
 wt. 8.1  
 V.S. 55  
 GL-8.0  
 CLK-4,700  
 CCN-2#



30

40

50

60

70

80

90

4600

ATD 4560

(-1979)

Pol, org - wh, inf, ax - by - dense /  
 den, a, h, a, i, s, - cherty, n, o  
 odr, 1, 1, 1, 5

Pol, org, inf, ax - by - dense /  
 den, a, h, a, i, s, - cherty, n, o  
 odr, 1, 1, 1, 5