Confidentiality Requested: Yes No

# KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1268435

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

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

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
GG GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to SWD	
Plug Back       Conv. to GSW       Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled         Permit #:           Dual Completion         Permit #:	Dewatering method used:
SWD     Permit #:	Location of fluid disposal if hauled offsite:
ENHR     Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Permit #:

#### AFFIDAVIT

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

# Submitted Electronically

KCC Office Use ONLY				
Confidentiality Requested				
Date:				
Confidential Release Date:				
Wireline Log Received				
Geologist Report Received				
UIC Distribution				
ALT I II Approved by: Date:				

	Page Two	1268435
Operator Name:	Lease Name:	Well #:
Sec TwpS. R   East  West	County:	

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

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

Drill Stem Tests Taken (Attach Additional Sheets)		Yes No	□ ι	.og Formatic	on (Top), Depth an	op), Depth and Datum	
		Yes No	Nam	Name		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
			RECORD Ne		on, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.			Type and Percent Additives	
		ADDITIONA	L CEMENTING / SQU	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing							
Plug Off Zone							
Did you perform a hydraulic	c fracturing treatment	on this well?		Yes	No (If No, skip	o questions 2 an	d 3)
	loes the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,00					question 3)	
Was the hydraulic fracturing	g treatment informatio	disclosure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e			ement Squeeze Record	Dopth
		Specily For	lage of	Each Interval P	enoraled			(Amount and Kind	l of Material Used)	Depth
TUBING RECORD:	Siz	re:	Set At:		Packe	r At:	Liner F	Run:	No	
Date of First, Resumed P	roducti	on, SWD or ENHF	<b>?</b> .	Producing Me	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS:			METHOD OF COMPLE		TION:		PRODUCTION INT	ERVAL:		
Vented Sold	<u> </u>	Jsed on Lease		Open Hole	Perf.	Dually (Submit)	Comp. 4 <i>CO-5)</i>	Commingled (Submit ACO-4)		
(If vented, Subn	nit ACO	-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	Duff 1
Doc ID	1268435

All Electric Logs Run

Compensated Density Neutron
Micro Resistivity
Borehole Compensated Sonic
Dual Induction

Form	ACO1 - Well Completion		
Operator	Palomino Petroleum, Inc.		
Well Name	Duff 1		
Doc ID	1268435		

Tops

Name	Тор	Datum
Anhy.	2078	(+630)
Base Anhy.	2140	(+568)
Heebner	3634	(-926)
Toronto	3654	(-946)
Lansing	3676	(-968)
Muncie Creek	3847	(-1139)
Stark	3940	(-1232)
Hushpuckney	3977	(-1269)
ВКС	4001	(-1269)
Marmaton	4050	(-1342)
Altamont	4070	(-1362)
Pawnee	4149	(-1441)
Little Osage	4173	(-1465)
Excello	4194	(-1486)
Cherokee	4226	(-1518)
Johnson	4269	(-1561)
Morrow	4304	(-1596)
Miss.	4330	(-1622)
LTD	4802	(-1850)



P.O. Box 205803 Dallas, TX 75320-5803

Voice: (832) 482-3742 Fax: (832) 482-3738

Bill To: 

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

Cu	istomer ID	Field Ticket #	Paym	ent Terms	
	Palo	67733	Net	30 Days	
Jol	b Location	Camp Location	Service Date	Due	Date
	KS1-01	Oakley s	ley Sep 28, 2015 10/28/1		
Quantity	ltem	Description		Unit Price	Amount
1.00	WELL NAME	Duff #1			and the second second second second
160.00	CEMENT MATERIAL	Class A Common		17.90	2,864.00
301.00	CEMENT MATERIAL	Gel		0.50	150.50
451.00	CEMENT MATERIAL	S Chloride		1.10	496.10
173.01	CEMENT SERVICE	Cubic Feet Charge		2.48	429.06
197.51	CEMENT SERVICE	Ton Mileage Charge		2.75	543.15
1.00	CEMENT SERVICE	Surface		1,512.25	1,512.25
25.00	CEMENT SERVICE	Heavy Vehicle Mileage		7.70	192.50
25.00	CEMENT SERVICE	Light Vehicle Mileage		4.40	110.00
1.00	JOB DISCOUNT	Job Discount if paid within terms Material		2,106.36	-2,106.36
1.00	JOB DISCOUNT	Job Discount if paid within terms Cement Servic	e	1,672.19	-1,672.19
1.00	CEMENT SUPERVIS	DR Paul Beaver			,
1.00	EQUIPMENT OPERA	OR Brandon Wilkinson		i I	
1.00	EQUIPMENT OPERA	OR Darren Racette			
t.					
1					
ALL PRIC	ES ARE NET, PAYAB	F			
30 DAYS	FOLLOWING DATE O	F Subtotal			2,519.01
INVOICE	. ONLY IF PAID ON O BEFORE	R Sales Tax			112.34
	Oct 28, 2015	Total Invoice	Amount		2,631.35
1	1/2% CHARGED	Payment/Cr	edit Applied	: 	
	HEREAFTER.	TOTAL			2,631.35

# RECEIVED OCT 0 5 2015

# INVOICE

Invoice Number: 150913 Invoice Date: Sep 28, 2015 Page: 1

Federal Tax I.D.#: 20-8651475

# ALLIED OIL & GAS SERVICES, LLC Federal Tax I.D. #20-5975804

067733

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT
	Oakley KS
DATE / 2015 / ISE 325	CALLED OUT ON LOCATION JOB START JOB FINISH 5'30 (D. D. M. JOB START JOB FINISH COUNTY STATE
LEASE DUTY WELL#	24 mi Smith COUNTY STATE
OLD OR NEW (Circle one)	LIMI South Logan KS
CONTRACTOR W+W 2	51
TYPE OF JOB Surface	OWNER Same
HOLE SIZE 121/4 T.D. 219	CEMENT
CASING SIZE 85/8 DEPTH 218:58 TUBING SIZE DEPTH	AMOUNT ORDERED / LOD SAL CAM Z'/ CT
DRILL PIPE DEPTH	21. gel
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON /100 Sts @17. Go 78141 000
MEAS. LINE , SHOE JOINT	COMMON160 sks @ 17.90 2864.00 POZMIX
CEMENT LEFT IN CSG. 15	GEL 30/# @ 50 150.50
DISPLACEMENT 12.5 ADI HOO	CHLORIDE <u>451 * @ 1.10</u> 491.10
EQUIPMENT	ASC@
	@
PUMPTRUCK CEMENTER Tail BRANEY	@
# 431 HELPER Kranden 12 1/ inson	· @
BULKTRUCK	@
#373/306 DRIVER Darren Racette	
# DRIVER	@ @
DATED	TOTAL 3 510 60
D PMA DICO	
REMARKS:	DISCOUNT 60% 2106.36
Displace wi water	SERVICE
	HANDLING 173.01 ft 3 @2.48 429.06
coment did circ	MILEAGE 7.90 fons v 25 mix 2.75 543.13
Shelts it	DEPTH OF JOB
othank You	PUMP TRUCK CHARGE 1572.25
Pabl+ Crew	EXTRA FOOTAGE@
	HV MILEAGE 25 @ 7.70 192.50
	LV MILEAGE 25 @ 4.40 110.00
CHARGETO: Palomino Petro Inc.	
STREET	
CITYSTATEZIP	TOTAL J786.54
	DISCOUNT 60% 1673.16
	PLUG & FLOAT EQUIPMENT
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	TOTAL
TERMS AND CONDITIONS" listed on the reverse side.	DISCOUNT%
	SALES TAX (If Any)
PRINTED NAME	TOTAL CHARGES (_ 297.54
loss the	DISCOUNT 3718.52 (CO) F PAID IN 30 DAYS
SIGNATURE SULLE	NET TOTAL 2/5/9 01 IF PAID IN 30 DAYS

6

NET TOTAL 21519.01 IF PAID IN 30 DAYS



P.O. Box 205803 Dallas, TX 75320-5803

Voice: (832) 482-3742 Fax: (832) 482-3738

#### Bill To:

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

Customer ID

Pal		67668	Net 30 Days			
Job Loc	ation	Camp Location	Service Date	Due	Date	
KS1-	03	Oakley	Oct 8, 2015	11/7/15		
Quantity	ltem	Description		Unit Price	Amount	
1.00 WEL		Duff #1			,	
240.00 CEM	ENT MATERIALS	60/40/4% Gel Blend		18.92	4,540.80	
1	ENT MATERIALS	Flo Seal		2.97	178.20	
257.76 CEM	ENT SERVICE	Cubic Feet Charge		2.48	639.24	
269.00 CEM	ENT SERVICE	Ton Mileage Charge		2.75	739.75	
1.00 CEM	ENT SERVICE	Plug to Abandon		2,483.59	2,483.59	
25.00 CEM	ENT SERVICE	Pump Truck Mileage		7.70	192.50	
25.00 CEM	ENT SERVICE	Light Vehicle Mileage		4.40	110.00	
1.00 EQU	IPMENT SALES	8-5/8 Dry Hole Plug		110.00	110.00	
1.00 JOB	DISCOUNT	Job Discount if paid within terms Materia	l	2,897.40	-2,897.40	
1.00 JOB	DISCOUNT	Job Discount if paid within terms Cement	Job Discount if paid within terms Cement Service			
1.00 CEM	ENT SUPERVISOR	Andrew Forslund				
1.00 CEM	ENT SUPERVISOR	Paul Beaver				
1.00 EQU	IPMENT OPERATOR	Darren Racette				
1						
				· · · · · · · · · · · · · · · · · · ·		
1						
ALL PRICES A	RE NET, PAYABLE LOWING DATE OF	Subto	tal		3,597.63	
INVOICE. ONL	Y IF PAID ON OR	Sales	Тах		287.81	
	FORE v 7, 2015	Total	Invoice Amount	<u></u>	3,885.44	
		Paym	nent/Credit Applied			
	CHARGED EAFTER.	TOTA	۱Ľ.		3,885.44	

Field Ticket #

OCT 2 2 2015

RECEIVED

# INVOICE

Invoice Numb	er: 150961
Invoice Date:	Oct 8, 2015
Page:	1

Federal Tax I.D.#: 20-8651475

**Payment Terms** 

# ALLIED OIL & GAS SERVICES, LLC Federal Tax I.D. #20-5975804 067668

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
DATE 10-8-15 SEC. TWP. RANGE 32	ALLED OUT ON LOCATION JOB START JOB FINISH
LEASE DUFF WELL# 1 LOCATION Daking	245 winto 20997 KS
OLD OR NEW (Circle one)	
CONTRACTOR W+W2	
$\frac{\text{CONTRACTOR}  \omega + \omega 2}{\text{TYPE OF JOB}  \rho \neq A}$	OWNER Same
HOLE SIZE 7 /8 T.D. 4510'	OF THE MODELING
CASING SIZE DEPTH	CEMENT
TUBING SIZE DEPTU	AMOUNT ORDERED 240 5 to 4940
DRILL PIPE 41/2 DEPTH 2150'	<u>9.00000 777 -0-5 ea C</u>
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON@
MEAS. LINE SHOE JOINT	POZMIX@
CEMENT LEFT IN CSG.	GEL@
PERFS.	CHLORIDE@
DISPLACEMENT	ASC@
EQUIPMENT	40 496 2405k5 @ 18,92 4540,80
	@
PUMPTRUCK CEMENTER And rew Torslund	Floseal 60 " @2,97 178,20
# 431 HELPER Paul Beaver	126-seal 60 " @ 2197 178,20 @
BULKTRUCK	
# 891 DRIVER Darren Racette	@
BULKTRUCK	6
# DRIVER	TOTAL 4,719.00
·	DISCOUNTGO % 2831.40
REMARKS:	DISCOUNT <u>60% 000470</u>
	SERVICE
50 sks @, 2150'	
100 shs @ 1125	HANDLING 257,76 @ 2.48 (39,24) MILEAGE 2,75 121/1/20 10-26 10-26 10-239,25
50 str @ 255' 10 str @ 40	
30 Slo Rot hole	DEPTH OF JOB 2/52 / PUMP TRUCK CHARGE 2483~59
	EXTRA FOOTAGE@
Thank your	HV MILEAGE 25 miles @ 2.20 192.50
	LV MILEAGE 25 miles @ 4.40 110,00
CHARGETO: Polanino Petroleum	
enalde 10. <u>v gramma - c)roacapic</u>	@
STREET	TOTAL 4 65.0
CITYSTATEZIP	DISCOUNT 66 % - 2499.0
	PLUG & FLOAT EQUIPMENT
	1 Dryhole plug @ 110,00
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	TOTAL _///).00
TERMS AND CONDITIONS" listed on the reverse side.	DISCOUNT <u>66.60</u>
1	SALES TAX (If Any)
	TOTAL CHARGES 8,994.08
PRINTED NAME	
137/11- He	DISCOUNT 5, 396.44 (60%) IF PAID IN 30 DAYS NET TOTAL 3, 797.63 IF PAID IN 30 DAYS
SIGNATURE DOMALL M	The country of the second seco
SIGNATURE DE MALCE NOS	



# DRILL STEM TEST REPORT

# Prepared For: Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: John Goldsmith

#### Duff #1

# 9-15s-32w Logan,KS

Start Date:	2015.10.02 @	18:39:00	
End Date:	2015.10.03 @	00:16:45	
Job Ticket #:	61830	DST #:	1

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

Printed: 2015.10.09 @ 11:32:18

A XA	RILOBITE	DRILL STEM TES	ST REP	ORT			
	And an and a second	Palomino Petroleum, Inc		9-15s	s-32w Lo	gan,KS	
翻	ESTING , INC	4924 SE 84th St.		Duff	#1		
		Newton, KS 67114		Job Ti	cket: 61830	D DS	T#: 1
		ATTN: John Goldsmith		Test S	Start: 2015.	10.02 @ 18:39:	00
GENERAL	INFORMATION:						
	LKC D No Whipstock: ened: 20:38:00 ied: 00:16:45	ft (KB)		Test T Tester Unit Ne	: Brad	ventional Bottor dley Walter	n Hole (Initial)
<b>Interval:</b> Total Depth: Hole Diameter	<b>3723.00 ft (KB) To 37</b> 3752.00 ft (KB) (TV 7.88 inchesHole			Refere	ence Elevat KB to G	2703	8.00 ft (KB) 3.00 ft (CF) 5.00 ft
Serial #: 8 Press@RunD Start Date: Start Time:		<ul> <li>3724.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>	2015.10.03 00:16:44	Capacity: Last Calib.: Time On Btr Time Off Bt	m: 201	8000 2015.1( 5.10.02 @ 20:3) 5.10.02 @ 22:44	7:45
	ISI: No return. FF: 8" blow . FSI: No return.		<u> </u>	PRE	SSURE	SUMMARY	
-	S305 Pressure	8305 Temperature Pearl Hore and the second s	Time		•	nnotation	
1750	y y	110	(Min.) 0		deg F) 106.46 Init	tial Hydro-static	
1500	Jan III		1	25.21	105.87 Op	en To Flow (1)	
1230			31 60	1 1	112.50 Sh 111.63 En	ut-ln(1) d Shut-ln(1)	
1000					1	en To Flow (2)	
750 550 220			90	964.03		ut-ln(2) d Shut-ln(2) aal Hydro-static	
0	Time (Hans)						
	Recovery				Gas R	ates	
Length (ft)	Description	Volume (bbl)			Choke (inches	i) Pressure (psig)	Gas Rate (Mcf/d)
60.00 245.00	mcw 30m 70w mcw 10m 90w (oil Spots	0.30					
240.00		in tool) 2.92					

Trilobite Testing, Inc

Printed: 2015.10.09 @ 11:32:18

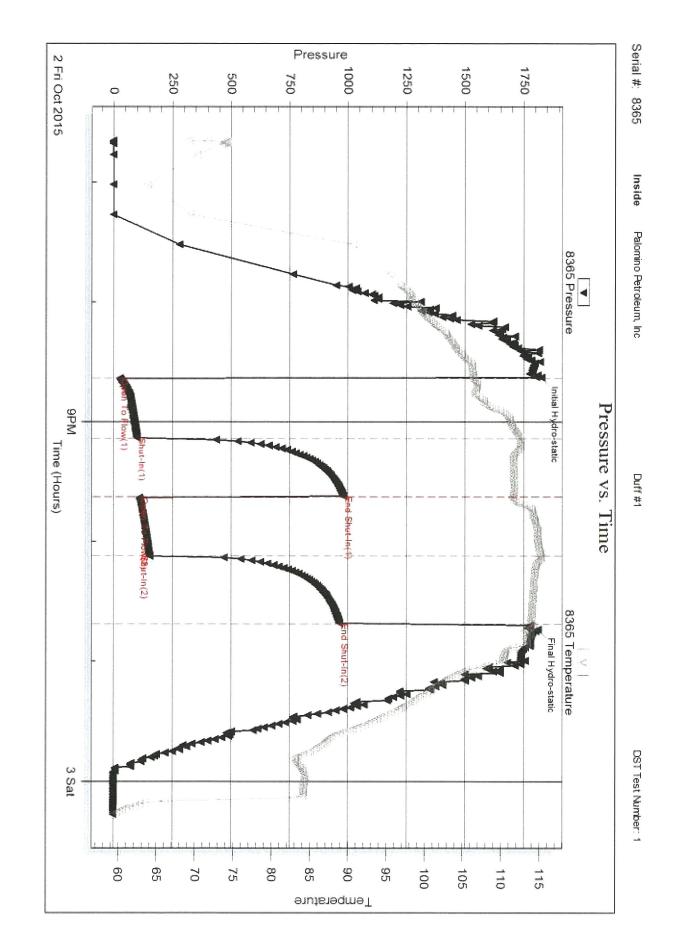
AON-	RILOBITE	DRILL STEM TE	ST REP	ORT			
語		Palomino Petroleum, Inc		9-15s-32v	v Logan,K	S	
雷	ESTING , INC	4924 SE 84th St. New ton, KS 67114		Duff #1			
				Job Ticket:		DST	
		ATTN: John Goldsmith		Test Start:	2015.10.02 (	@ 18:39:0	0
GENERAL IN	NFORMATION:						
Formation: Deviated: Time Tool Open Time Test Ende		ft (KB)		Test Type: Tester: Unit No:	Conventior Bradley Wa 69		Hole (Initial)
<b>Interval:</b> Total Depth: Hole Diameter:	<b>3723.00 ft (KB) To 37</b> 3752.00 ft (KB) (T∿ 7.88 inches Hole				Elevations: B to GR/CF:	2703.	00 ft (KB) .00 ft (CF) .00 ft
Serial #: 85 Press@RunDep Start Date: Start Time:		<ul> <li>3724.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>	2015.10.03 00:17:29	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000. 2015.10.	00 psig 03
	FF: 8" blow . FSI: No return.			PRESS	JRE SUM	MARY	
1733 233 234 235 235 236 237 237 238 239 239 239 239 239 239 239 239	Tree (kan)		Time (Min.)	Pressure Temp (psig) (deg		ion	
	Recovery				Bas Rates		
Length (ft)	Description	Volume (bbl)		Cho	e (inches) Press	sure (psig)	Gas Rate (Mcf/d)
	mcw 30m 70w mcw 10m 90w (oil Spots	0.30 in tool) 2.92					
	······						

RILOBITE		o Petroleum, li	าต		9-15s-32w Logan	n,KS
ESTING , I	1 4524 01	E84th St. , KS 67114			Duff #1	DD7// /
		lohn Coldom	äh		Job Ticket: 61830	DST#:1
· · · · · · · · · · · · · · · · · · ·	ATTN:	John Goldsm	ιτη 		Test Start: 2015.10.0	02@18:39:00
Tool Information						
Drill Pipe: Length: 3610.00	ft Diameter:	3.80 inc	hes Volume:	50.64 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe: Length: 0.00	ft Diameter:	0.00 inc	hes Volume:	0.00 bbl	Weight set on Pac	ker: 25000.00 lb
Drill Collar: Length: 117.00	ft Diameter:	2.25 inc	hes Volume:	0.58 bbl	Weight to Pull Loop	se: 70000.00 lb
Drill Pipe Above KB: 31.00	f+	-	Total Volume:	51.22 bbl	Tool Chased	0.00 ft
Depth to Top Packer: 3723.00					String Weight: Init	
	ft				Fin	al 60000.00 lb
nterval between Packers: 29.00						
Fool Length: 56.00	ft					
<b>v</b>	Diameter:	6.75 inc	hes			
Number of Packers: 2 Tool Comments:	Diameter:					
Number of Packers:       2         Tool Comments:       2         Tool Description       2	Diameter: Length (ft)		hes Position	• • • •	cum. Lengths	
Number of Packers:       2         Tool Comments:       2         Tool Description       2         Change Over Sub       2	Diameter: Length (ft) 1.00			3697.00	cum. Lengths	
Number of Packers: 2 Tool Comments: Tool Description Change Over Sub Shut In Tool	Diameter: Length (ft) 1.00 5.00			3697.00 3702.00	cum. Lengths	
Number of Packers:       2         Tool Comments:       2         Tool Description       2         Change Over Sub       2         Shut In Tool       -         -tydraulic tool       3	Diameter: Length (ft) 1.00			3697.00	cum. Lengths	
Number of Packers: 2 Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars	Diameter: Length (ft) 1.00 5.00 5.00			3697.00 3702.00 3707.00	cum. Lengths	
Number of Packers: 2 Fool Comments: Fool Description Change Over Sub Shut In Tool Hydraulic tool lars Safety Joint	Diameter: Length (ft) 1.00 5.00 5.00 5.00			3697.00 3702.00 3707.00 3712.00	cum. Lengths	Bottom Of Top Packe
Number of Packers: 2 Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer	Diameter: Length (ft) 1.00 5.00 5.00 5.00 2.00			3697.00 3702.00 3707.00 3712.00 3714.00		Bottom Of Top Packe
Number of Packers: 2 Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	Diameter: Length (ft) 1.00 5.00 5.00 5.00 2.00 5.00			3697.00 3702.00 3707.00 3712.00 3714.00 3719.00		Bottom Of Top Packe
Number of Packers: 2 Tool Comments:	Diameter: Length (ft) 1.00 5.00 5.00 2.00 5.00 4.00			3697.00 3702.00 3707.00 3712.00 3714.00 3719.00 3723.00		Bottom Of Top Packe
Number of Packers: 2 Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	Diameter: Length (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00	Serial No.	Position	3697.00 3702.00 3707.00 3712.00 3714.00 3719.00 3723.00 3724.00		Bottom Of Top Packe
Number of Packers: 2 Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	Diameter: Length (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	Serial No.	Position	3697.00 3702.00 3707.00 3712.00 3714.00 3719.00 3723.00 3724.00 3724.00		Bottom Of Top Packe
Number of Packers: 2 Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool lars Safety Joint Packer Packer Packer Stubb Recorder Recorder Perforations	Diameter: Length (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00	Serial No.	Position	3697.00 3702.00 3712.00 3712.00 3714.00 3719.00 3723.00 3724.00 3724.00 3724.00		
Number of Packers: 2 Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder	Diameter: Length (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 0.00 25.00 3.00	Serial No.	Position	3697.00 3702.00 3707.00 3712.00 3714.00 3719.00 3723.00 3724.00 3724.00 3724.00 3724.00 3724.00	27.00	Bottom Of Top Packe Bottom Packers & Anchor

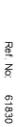
	RITF L	RILL STEM TEST REPOR	<u>,</u> τ	FI	
		mino Petroleum, Inc	9-15s-32w	Logan,KS	
		4 SE 84th St.	Duff #1		
	Nev	rton, KS 67114	Job Ticket: 6	61830	DST#:1
	AT	N: John Goldsmith	Test Start: 2	2015.10.02 @ 18:3	39:00
lud and Cushion In	formation				
ud Type: Gel Chem		Cushion Type:		Oil API:	0 deg A Pl
-	) lb/gal	Cushion Length:	ft	Water Salinity:	48000 ppm
	) sec/qt	Cushion Volume:	bbl		
ater Loss: 6.39		Gas Cushion Type:			
esistivity:	ohm.m	Gas Cushion Pressure:	psig		
alinity: 2500.00 ter Cake: 1.00	) ppm ) inches				
ecovery Informatio	on				
		Recovery Table		-	
	Length ft	Description	Volume bbl		
	60.0	0 mcw 30m 70w	0.295	5	
	245.0	mcw 10m 90w (oil Spots in tool)	2.917	7	
Т	otal Length:	305.00 ft Total Volume: 3.212 b	bl		
Ν	lum Fluid Samples: 0	Num Gas Bombs: 0	Serial#	÷	
	aboratory Name:	Laboratory Location:			
F	Recovery Comments:	rw is .180 @ 60F = 48,000ppm			
	course control to				

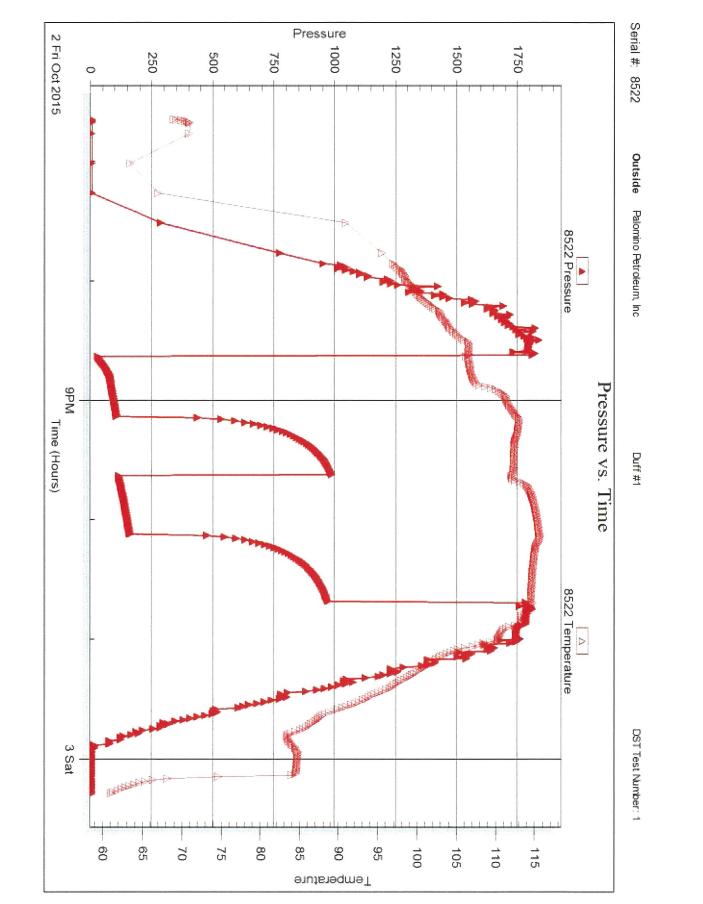
Printed: 2015.10.09 @ 11:32:19

Ref. No: 61830











# DRILL STEM TEST REPORT

Prepared For:

# Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: John Goldsmith

## Duff #1

# 9-15s-32w Logan,KS

Start Date:	2015.10.03 @	07:12:00	
End Date:	2015.10.03 @	12:02:00	
Job Ticket #:	61831	DST #:	2

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

Printed: 2015.10.09 @ 11:31:57

RILOBITE	Palomino Petroleum, Inc		9-1	5s-32w	Logan,KS	3	
ESTING , INC	4924 SE 84th St.		Dut	ff #1			
	New ton, KS 67114			Ticket: 6'	1831	DST#:2	1
	ATTN: John Goldsmith				015.10.03 @		
GENERAL INFORMATION:							
Formation: LKC E - F Deviated: No Whipstock: Time Tool Opened: 08:37:00 Time Test Ended: 12:02:00	ft (KB)		Tes Tes Unit	ter:	Conventiona Bradley Wal 69	al Bottom Hol Iter	e (Reset)
nterval:         3754.00 ft (KB) To         378           Total Depth:         3786.00 ft (KB) (TV         1010 ft (KB) (TV           Hole Diameter:         7.88 inches Hole	D)		Refe	erence Ele KB t	evations:	2708.00 2703.00 5.00	ft (CF)
						5.00	
Serial #:         8365         Inside           Press@RunDepth:         40.94 psig         6           Start Date:         2015.10.03         2015.10.03           Start Time:         07:12:05         07:12:05	3755.00 ft (KB) End Date: End Time:	2015.10.03 12:01:59	Capacity: Last Calit Time On I Time Off	o.: Btm: 2	2015.10.03	8000.00 2015.10.03 @ 08:36:45 @ 10:47:00	psig
EST COMMENT: IF: 1" blow . ISI: No return. FF: Surface blow FSI: No return.							
Pressure vs. Th 335 freasure	EC 5305 Torspankre				RE SUMM	ARY	
		Time (Min.) 0 1 32 61 62 90 129 131	Pressure (psig) 1829.22 16.47 30.90 1065.61 33.40 40.94 1050.29 1817.42	100.05 102.02 103.56 103.34 106.18 107.67	Annotatic Initial Hydro Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In Final Hydro	o-static low (1) n(1) low (2) n(2)	
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (in	nches) Pressu	re (psig) Ga	s Rate (Mcf/d)
60.00         w cm 10w 90m (oil spots)           0.00         30' GIP	0.30						
		1					

RILOBITE	Palomino Petroleum, Inc		0 45- 22	v Logan,K	e
ESTING , INC				v Luyan,N	0
	4924 SE 84th St. New ton, KS 67114		Duff #1		
			Job Ticket:	61831	DST#: 2
	ATTN: John Goldsmith		Test Start:	2015.10.03 (	2 07:12:00
GENERAL INFORMATION:					
Formation: LKC E - F Deviated: No Whipstock: Time Tool Opened: 08:37:00 Time Test Ended: 12:02:00	ft (KB)		Test Type: Tester: Unit No:	Convention Bradley Wa 69	al Bottom Hole (Reset) alter
nterval: 3754.00 ft (KB) To 37	86.00 ft (KB) (TVD)		Reference	Elevations:	2708.00 ft (KB)
Total Depth: 3786.00 ft (KB) (T∖					2703.00 ft (CF)
Hole Diameter: 7.88 inches Hole	Condition: Good		к	B to GR/CF:	5.00 ft
Serial #: 8522 Outside					
Press@RunDepth: psig			Capacity:		8000.00 psig
Start Date: 2015.10.03	End Date:	2015.10.03	Last Calib.:		2015.10.03
Start Time: 07:12:05	End Time:	12:05:44	Time On Btm: Time Off Btm:		
FSI: No return. Pressure vs. T			PRESSI	JRE SUMM	IARY
	BSZZ Tempaniure	Time	PRESSI Pressure Temp		
Pressure vs. T		Time (Min.)		Annotat	
Pressure vs. T	822 Temperature 10 10 10 10 10 10 10 10		Pressure Temp	Annotat	
Pressure vs. Ti	852 Temperature 110		Pressure Temp	Annotat	
Pressure vs. TS RZZ Hosure	852 Verpenden 190 190 190 190 190	(Min.)	Pressure Temp	Annotat	
T750	NEW Yorking States		Pressure Temp	Annotat	
Pressure vs. TS RZZ Hosure	BEZ Temperature 110 110 110 110 110 100 100 10	(Min.)	Pressure Temp	Annotat	
Pressure vs. The second	REC Tomoradar Tomorad	(Min.)	Pressure Temp	Annotat	
Pressure vs. The source vs. The sour	REZ Temperate 55 56 56 56 56 56 56 56 56 56	(Min.)	Pressure Temp	Annotat	
Pressure vs. TS 000 000 000 000 000 000 000 000 000 0	BEZ Temperature 110 120 130 150 150 150 150 150 150 150 15	(Min.)	Pressure Temp	Annotat	
Pressure vs. TS 000 000 000 000 000 000 000 000 000 0	BEZ Temperatur 10 10 10 10 10 10 10 10 10 10	(Min.)	Pressure Temp	Annotat	
Pressure vs. The same vs. The s	BEZ Temperatur 10 10 10 10 10 10 10 10 10 10	(Min.)	Pressure Temp (psig) (deg f	Annotat	
Pressure vs. The Pressure vs.	BEZ Temperatur 10 10 10 10 10 10 10 10 10 10	(Min.)	Pressure Temp (psig) (deg f	Annotat	ion
Pressure vs. The mediate series of the seri	M22 Temperature         110           100         150           100         150           100         150           100         150           100         100           100         100           100         100	(Min.)	Pressure Temp (psig) (deg f	Annotat	on
Pressure vs. The Pressure vs.	BEZ         Temperature           190         50           100         50     <	(Min.)	Pressure Temp (psig) (deg f	Annotat	on
Pressure vs. The mediate series of the seri	M22 Temperature         19           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50	(Min.)	Pressure Temp (psig) (deg f	Annotat	on
Pressure vs. The mediate series of the seri	M22 Temperature         19           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50	(Min.)	Pressure Temp (psig) (deg f	Annotat	on
Pressure vs. The mediate series of the seri	M22 Temperature         19           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50           100         50	(Min.)	Pressure Temp (psig) (deg f	Annotat	on

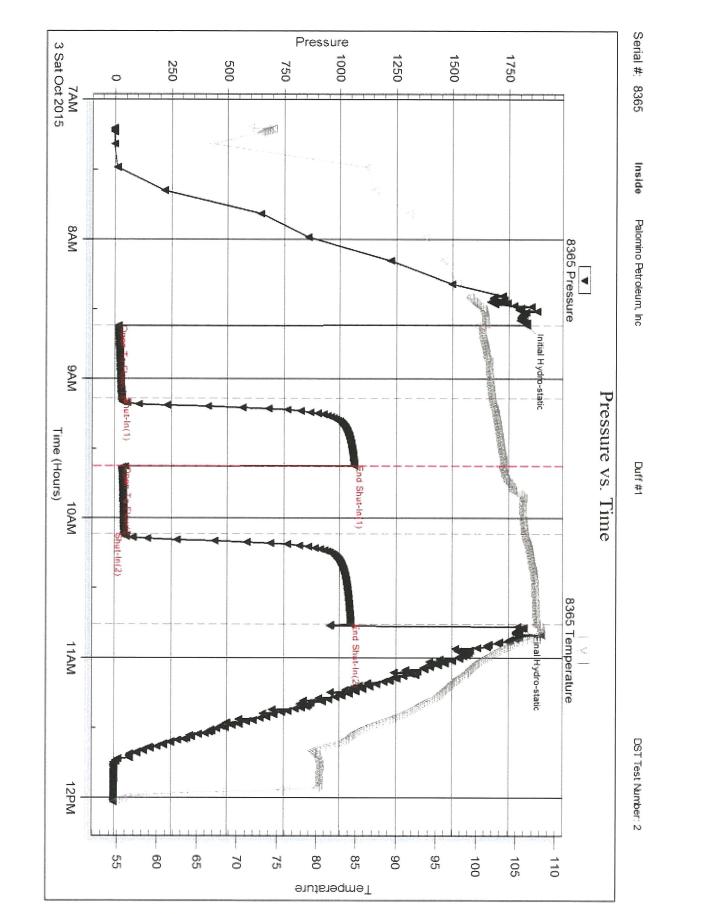
1 a 460 I	RILOE	<i>HIE</i>	Delevater	Detreleum				
				Petroleum,	Inc		9-15s-32w Logan,	KS
御書	1 501	F <b>ING</b> , inc	4924 SE	84th St.			Duff #1	
			New ton,	KS 67114			Job Ticket: 61831	DST#: 2
			ATTN:	John Golds	mith		Test Start: 2015.10.03	3 @ 07:12:00
Tool Informatio	on							
Drill Pipe:	Length:	3641.00 ft	Diameter:	3.80 ir	nches Volume:	51.07 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 ir	nches Volume:	0.00 bbl	Weight set on Pack	er: 25000.00 lb
Drill Collar:	Length:	117.00 ft	Diameter:	2.25 ir	ches Volume:	0.58 bbl	Weight to Pull Loos	e: 75000.00 lb
Drill Pipe Above I	<b∙< td=""><td>31.00 ft</td><td></td><td></td><td>Total Volume:</td><td>51.65 bbl</td><td>Tool Chased</td><td>0.00 ft</td></b∙<>	31.00 ft			Total Volume:	51.65 bbl	Tool Chased	0.00 ft
Depth to Top Pac		3754.00 ft					String Weight: Initia	
Depth to Bottom		ft					Fina	l 60000.00 lb
nterval betw een		32.00 ft						
Tool Length:		59.00 ft						
roor Length.								
•	ers:	2	Diameter:	6.75 ir	ches			
Number of Packe Tool Comments:	ers:		Diameter:	6.75 ir	nches			
Number of Packe		2	Diameter: ngth (ft)		Position	Depth (ft) Ac	ccum. Lengths	
Number of Packe Tool Comments:	on	2				<b>Depth (ft)</b> Ac 3728.00	ccum. Lengths	
Number of Packe Tool Comments: <b>Tool Descriptio</b> Change Over Sul	on	2	ngth (ft)				ccum. Lengths	
Number of Packe Tool Comments: <b>Tool Descriptio</b> Change Over Sul Shut In Tool	on	2	<b>ngth (ft)</b>			3728.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool	on	2	<b>ngth (ft)</b> 1.00 5.00			3728.00 3733.00	ccum. Lengths	
Number of Packe Tool Comments: <b>Tool Descriptio</b> Change Over Sul Shut In Tool Hydraulic tool Jars	on	2	<b>ngth (ft)</b> 1.00 5.00 5.00			3728.00 3733.00 3738.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint	on	2	<b>ngth (ft)</b> 1.00 5.00 5.00 5.00			3728.00 3733.00 3738.00 3743.00	ccum. Lengths	Bottom Of Top Packe
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer	on	2	ngth (ft) 3 1.00 5.00 5.00 5.00 2.00			3728.00 3733.00 3738.00 3743.00 3745.00		Bottom Of Top Packe
Number of Packe Tool Comments: Tool Description Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on	2	ngth (ft) 3 1.00 5.00 5.00 5.00 2.00 5.00			3728.00 3733.00 3738.00 3743.00 3745.00 3750.00		Bottom Of Top Packe
Number of Packe Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	on	2	ngth (ft) 5 1.00 5.00 5.00 2.00 5.00 4.00			3728.00 3733.00 3738.00 3743.00 3745.00 3750.00 3754.00		Bottom Of Top Packe
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	on	2	ngth (ft) 3 1.00 5.00 5.00 2.00 5.00 4.00 1.00	Serial No.	Position	3728.00 3733.00 3738.00 3743.00 3745.00 3750.00 3754.00 3755.00		Bottom Of Top Packe
Number of Packe Tool Comments: Tool Descriptio	on	2	ngth (ft) 3 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	Serial No. 8365	Position	3728.00 3733.00 3738.00 3743.00 3745.00 3750.00 3755.00 3755.00		Bottom Of Top Packe
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder	on	2	ngth (ft) 3 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00	Serial No. 8365	Position	3728.00 3733.00 3738.00 3743.00 3745.00 3750.00 3754.00 3755.00 3755.00 3755.00	27.00	Bottom Of Top Packe

ALL YA		, DR	ILL STEM TEST	REPORT	Г		FLUID SUMMAR	
	RILOBITE	1 1 4011	ino Petroleum, Inc		9-15s-32w	Logan,KS		
	ESTING	1021	SE 84th St. on, KS 67114		<b>Duff #1</b> Job Ticket: 6	31831	DST#: 2	
			ATTN: John Goldsmith		Test Start: 2015.10.03 @ 0			
Mud and Cu	shion Informa	ation						
Mud Type: G	el Chem		Cushion Type:			Oil API:	0 deg API	
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:	0 ppm	
√iscosity:	53.00 sec/q	t	Cushion Volume:		bbl	-		
Water Loss:	7.99 in <sup>3</sup>		Gas Cushion Type:					
Resistivity:	ohm.n	n	Gas Cushion Pressur	e:	psig			
Salinity:	3000.00 ppm							
Filter Cake:	1.00 inches	S						
Recovery In	formation		Deserves Table					
	r		Recovery Table			-		
		Length ft	Description		Volume bbl			
		60.00	uu am 10uu 00m (ail anata)		· · · ·	-		
		0.00	w cm 10w 90m (oil spots) 30' GIP		0.295	-		
	Total Le		0.00 ft Total Volume:	0.295 bbl	0.000	싀		
		id Samples: 0	Num Gas Bombs:	0	Serial #	:		
		ory Name:	Laboratory Location	on:				
	Recover	ry Comments:						

Printed: 2015.10.09 @ 11:31:58

Ref. No: 61831

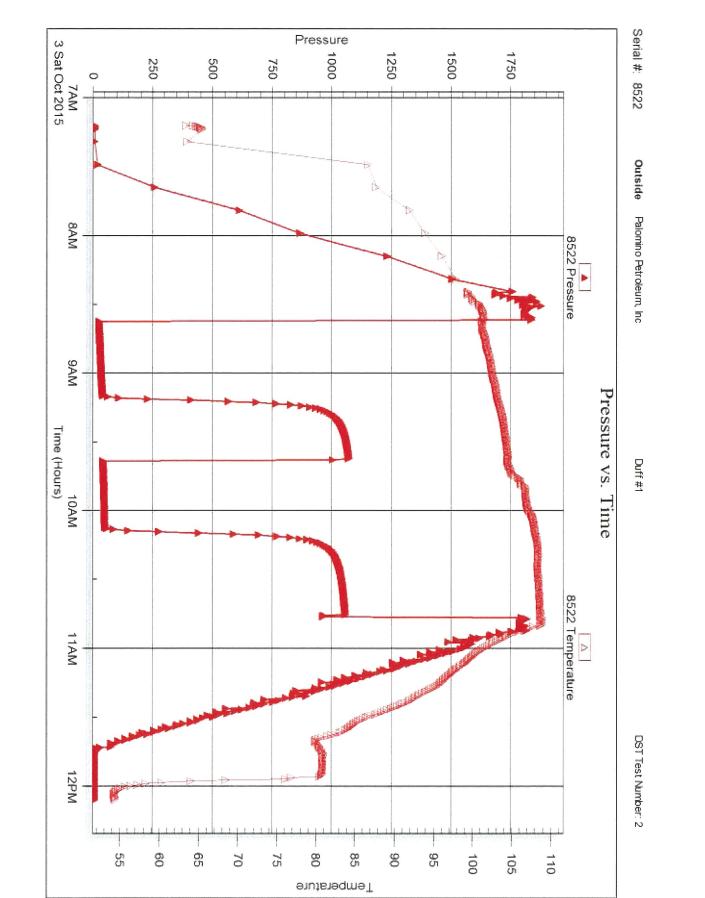






Ref. No: 61831







# DRILL STEM TEST REPORT

Prepared For:

# Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: John Goldsmith

#### Duff#1

# 9-15s-32w Logan,KS

Start Date:	2015.10.04 @	03:15:00	
End Date:	2015.10.04 @	08:07:30	
Job Ticket #:	61832	DST #:	3

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

(二十))	RILOBITE	Palomino Petroleum, Inc			9.1	5s-32w	Logan,KS	}
(EE)	ESTING , INC							-
图封	1 counter ano	4924 SE 84th St. New ton, KS 67114				ff #1		
					Job	Ticket: 6	1832	DST#: 3
		ATTN: John Goldsmith			Tes	t Start: 20	015.10.04 @	03:15:00
GENERAL	INFORMATION:							
	LKC H - J No Whipstock: ened: 04:34:15 ded: 08:07:30	ft (KB)			Tes	ter:	Conventiona Bradley Wal 69	Il Bottom Hole (Reset ter
Interval:	3832.00 ft (KB) To 39	23.00 ft (KB) (TVD)			Ref	erence Ele	evations:	2708.00 ft (KB)
Total Depth:	3752.00 ft (KB) (T							2703.00 ft (CF)
Hole Diamete	r: 7.88 inchesHole	Condition: Good				KB t	to GR/CF:	5.00 ft
Serial #:								
Press@RunE Start Date:	Depth: 102.27 psig 2015.10.04	@ 3833.00 ft (KB) End Date:		2015.10.04	Capacity Last Cali			8000.00 psig
Start Date: Start Time:	2015.10.04 03:15:05	End Date: End Time:		2015.10.04 08:07:29	Last Call Time On		2015.10.04	2015.10.04 @ 04:34:00
	00.10.00			00.01.20	Time Off		2015.10.04 ( 2015.10.04 (	
2000	8305 Presare	8305 Temperature	- 110	Time (Min.)	Pressure	Temp	RE SUMM	
2000				(Min.)	Pressure (psig)	lemp (deg F)	Annotatio	n
1750			- 105 - 100	0	1896.08	103.82		
1500			~ 96	1 31	18.38 76.59	102.56	Open To F Shut-In(1)	OW (1)
120			- 90	61	1102.82		End Shut-li	n(1)
1000			16 Tempera	62	82.33		Open To F	low (2)
			ŝ	92	102.27		Shut-In(2)	
750			- 70 *	121 123	1085.67 1863.65	108.43 108.87	End Shut-li Final Hydro	
500 F			- 05	120	1000.00	100.07	i mar iyuru	-static
20			- 00					
			- 55					
	4444 5444 04	Lé 7/Mai SAGé						
(9an Oct 2015	Time (Haun)							
	Recovery		т	<b></b>		1	s Rates	····
	Description	Volume (bbl)	4			Choke (i	nches) Pressu	re (psig) Gas Rate (Mcf/
Length (ft)		1.46	4					
Length (ft)	w cm 10w 90m	1						
			ו ד					
	w cm 10w 90m							
			-					

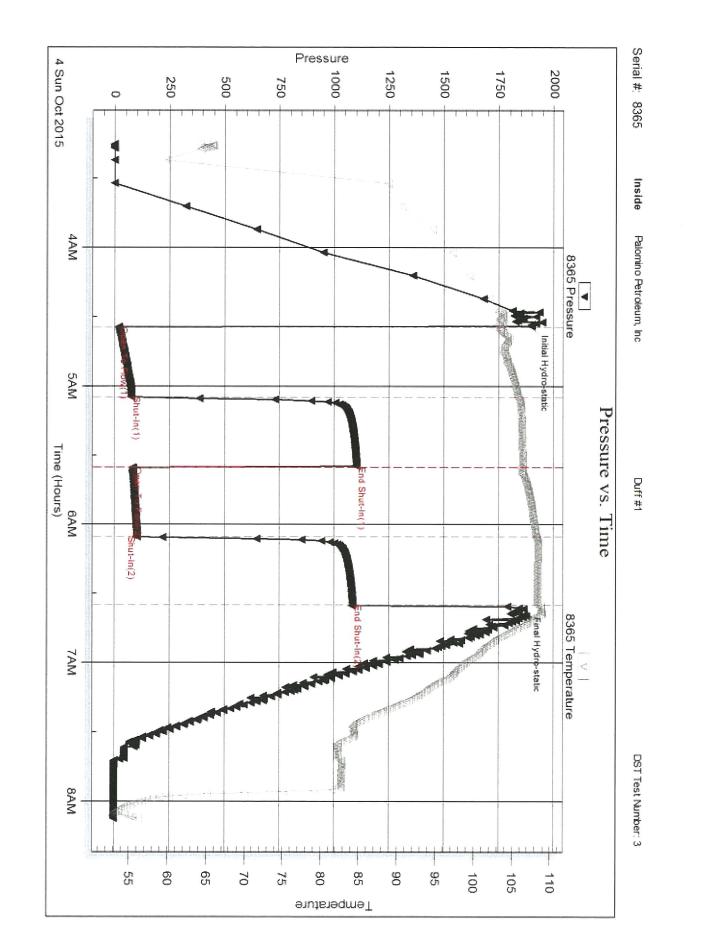
RILOBITE	Palomino Petroleum, Inc		0 15- 20-	u Logan K	<u> </u>
TESTING , INC				v Logan,K	3
	4924 SE 84th St. New ton, KS 67114		Duff #1		
			Job Ticket:	61832	DST#: 3
	ATTN: John Goldsmith		Test Start:	2015.10.04 @	@ 03:15:00
GENERAL INFORMATION:					
Formation: LKC H - J Deviated: No Whipstock: Fime Tool Opened: 04:34:15 Fime Test Ended: 08:07:30	ft (KB)		Test Type: Tester: Unit No:	Convention Bradley Wa 69	al Bottom Hole (Reset) alter
nterval: 3832.00 ft (KB) To 39	23.00 ft (KB) (TVD)		Reference	Elevations:	2708.00 ft (KB)
Total Depth:         3752.00 ft (KB) (T)	•				2703.00 ft (CF)
Hole Diameter: 7.88 inchesHole	Condition: Good		KI	B to GR/CF:	5.00 ft
Serial #: 8522 Outside					
Press@RunDepth: psig Start Date: 2015.10.04	@ 3833.00 ft (KB) End Date:	2015.10.04	Capacity: Last Calib.:		8000.00 psig 2015.10.04
Start Time: 03:15:05	End Time:	2015.10.04 08:07:29	Time On Btm:		2010.10.04
			Time Off Btm:		
1730	10 100 100 100 100 100 100 100 100 100	Time (Min.)	Pressure Temp (psig) (deg F	1	ion
				1	ion
<b>500</b>		(Min.)	(psig) (deg F	as Rates	sure (psig) Gas Rate (Mct/c
eso eso eso eso eso eso eso eso	Volume (bbl)	(Min.)	(psig) (deg F	as Rates	

NC 4924 S New tor	0.00 in 2.25 in 6.75 in	nith ches Volume: ches Volume: ches Volume: Total Volume:	0.00 bbl 0.58 bbl	9-15s-32w Logan,K Duff #1 Job Ticket: 61832 Test Start: 2015.10.04 @ Tool Weight: Weight set on Packer: Weight to Pull Loose: Tool Chased String Weight: Initial Final	DST#: 3 0 03:15:00 2500.00 lb : 25000.00 lb
New tor ATTN: 0 ft Diameter: 0 ft Diameter: 0 ft Diameter: 0 ft 0 ft 0 ft 2 Diameter: 2 Diameter:	N, KS 67114 John Goldsr 3.80 in 0.00 in 2.25 in 6.75 in	ches Volume: ches Volume: <u>ches Volume:</u> Total Volume:	0.00 bbl 0.58 bbl	Job Ticket: 61832 Test Start: 2015.10.04 @ Tool Weight: Weight set on Packer: Weight to Pull Loose: Tool Chased String Weight: Initial	2500.00 lb 2500.00 lb 25000.00 lb 73000.00 lb 0.00 ft 60000.00 lb
ATTN: 0 ft Diameter: 0 ft Diameter: 0 ft Diameter: 0 ft 0 ft 0 ft 2 Diameter: Length (ft)	John Goldsr 3.80 in 0.00 in 2.25 in 6.75 in	ches Volume: ches Volume: <u>ches Volume:</u> Total Volume:	0.00 bbl 0.58 bbl	Test Start: 2015.10.04 @ Tool Weight: Weight set on Packer: Weight to Pull Loose: Tool Chased String Weight: Initial	2500.00 lb 2500.00 lb 25000.00 lb 73000.00 lb 0.00 ft 60000.00 lb
0 ft Diameter: 0 ft Diameter: 0 ft Diameter: 0 ft 0 ft 0 ft 2 Diameter: Length (ft)	3.80 in 0.00 in 2.25 in 6.75 in	ches Volume: ches Volume: <u>ches Volume:</u> Total Volume:	0.00 bbl 0.58 bbl	Tool Weight: Weight set on Packer: Weight to Pull Loose: Tool Chased String Weight: Initial	2500.00 lb 25000.00 lb 73000.00 lb 0.00 ft 60000.00 lb
0 ft Diameter: 0 ft Diameter: 0 ft 1 ft 0 ft 2 Diameter: Length (ft)	0.00 in 2.25 in 6.75 in	ches Volume: ches Volume: Total Volume:	0.00 bbl 0.58 bbl	Weight set on Packer: Weight to Pull Loose: Tool Chased String Weight: Initial	: 25000.00 lb 73000.00 lb 0.00 ft 60000.00 lb
0 ft Diameter: 0 ft Diameter: 0 ft 1 ft 0 ft 2 Diameter: Length (ft)	0.00 in 2.25 in 6.75 in	ches Volume: ches Volume: Total Volume:	0.00 bbl 0.58 bbl	Weight set on Packer: Weight to Pull Loose: Tool Chased String Weight: Initial	: 25000.00 lb 73000.00 lb 0.00 ft 60000.00 lb
0 ft Diameter: 0 ft ft 0 ft 2 Diameter: Length (ft)	2.25 in 6.75 in	ches Volume: Total Volume:	0.58 bbl	Weight to Pull Loose: Tool Chased String Weight: Initial	73000.00 lb 0.00 ft 60000.00 lb
0 ft 0 ft 0 ft 2 Diameter: <b>Length (ft)</b>	6.75 in	Total Volume:		Tool Chased String Weight: Initial	0.00 ft 60000.00 lb
0 ft ft 0 ft 2 Diameter: <b>Length (ft)</b>			52.52 bbl	String Weight: Initial	60000.00 lb
0 ft ft 0 ft 2 Diameter: <b>Length (ft)</b>		ches			
0 ft 0 ft 2 Diameter: <b>Length (ft)</b>		ches		Final	61000.00 lb
0 ft 2 Diameter: <b>Length (ft)</b>		ches			
2 Diameter: Length (ft)		ches			
Length (ft)		ches			
	Operiol No.				
	On what No.				
	Contal Ma				
	Carlal Ma				
	Serial No.	Position		cum. Lengths	
			3806.00		
5.00			3811.00		
5.00			3816.00		
				27.00	Bottom Of Top Packe
	8522	Outside			
3.00			3923.00	91.00 Bo	ttom Packers & Anchor
	5.00 2.00 5.00 4.00 1.00 0.00 23.00 1.00 62.00 1.00 3.00 : <b>118.00</b>	2.00 5.00 4.00 1.00 0.00 8365 0.00 8522 23.00 1.00 62.00 1.00 3.00	2.00 5.00 4.00 1.00 0.00 8365 Inside 0.00 8522 Outside 23.00 1.00 62.00 1.00 3.00	2.00       3823.00         5.00       3828.00         4.00       3832.00         1.00       3833.00         0.00       8365       Inside       3833.00         0.00       8522       Outside       3833.00         23.00       3856.00       3857.00         62.00       3919.00       3920.00         3.00       3923.00       3923.00	2.00       3823.00         5.00       3828.00       27.00         4.00       3832.00         1.00       3833.00         0.00       8365       Inside       3833.00         0.00       8365       Inside       3833.00         23.00       3856.00       1.00       3857.00         62.00       3919.00       3920.00       300       91.00       Bot

The Tow one	P/=	DRI	LL STEM TEST REP	ORT	F	LUID SUMMARY
RILOBIT		Palomir	no Petroleum, Inc	9-15s-32v	v Logan,KS	
ESTIN	ESTING , INC		SE 84th St. n, KS 67114	<b>Duff #1</b> Job Ticket:	-	DOT# 0
		۸ <del></del>	John Goldsmith			DST#: 3
		ATTN.		Test Start.	2015.10.04 @ 03	
Mud and Cushion Inform	mation					
Mud Type:Gel ChemMud Weight:9.00 lb/gViscosity:54.00 secWater Loss:7.99 in³Resistivity:ohnSalinity:4000.00 ppnFilter Cake:1.00 inch	c/qt n.m n		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	0 deg API 0 ppm
Recovery Information						
_			Recovery Table		_	
	Lengtl ft	٦	Description	Volume bbl		
		80.00	w cm 10w 90m	1.45	59	
Total	Length:	180	.00 ft Total Volume: 1.45	59 bbl		
	ratory Nam		Laboratory Location:			

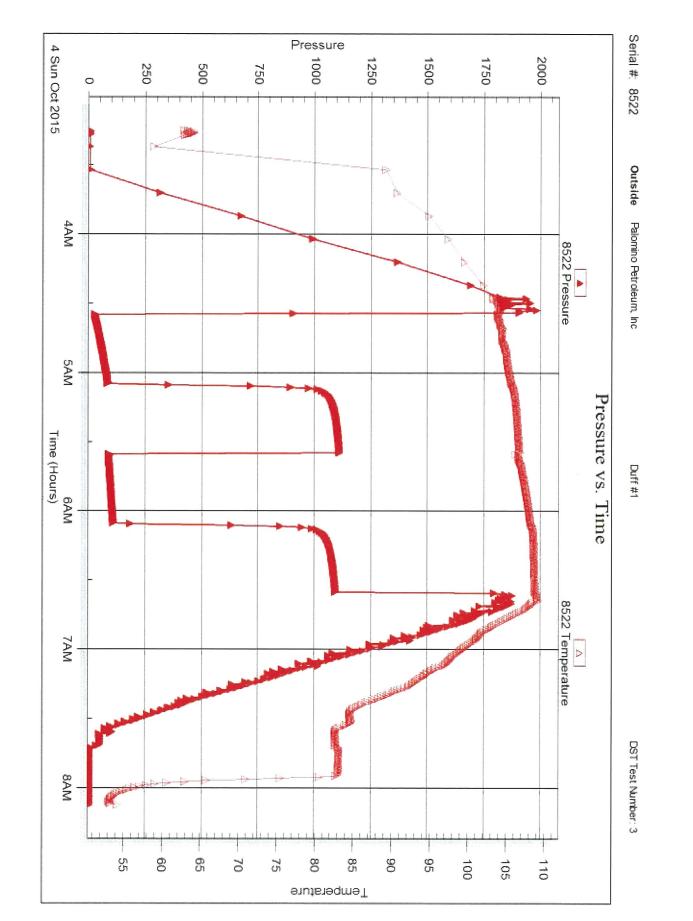
Printed: 2015.10.09 @ 11:31:35

Ref. No: 61832



Printed: 2015.10.09 @ 11:31:36

Ref. No: 61832





# DRILL STEM TEST REPORT

Prepared For:

## Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: John Goldsmith

### Duff #1

# 9-15s-32w Logan,KS

Start Date:	2015.10.04 @	14:40:00	
End Date:	2015.10.04 @	20:50:45	
Job Ticket #:	61833	DST #:	4

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

Printed: 2015.10.09 @ 11:31:10

RILOBITE	Palomino Petroleum, Inc		9-15s	-32w I	.ogan,KS		
ESTING , INC					- <u>3</u> ,		
	4924 SE 84th St. New ton, KS 67114		Duff	#1			
	New LUB, NO. 07 114		Job Tio	cket: 618	333	DST#:4	ļ
	ATTN: John Goldsmith		Test S	tart: 201	15.10.04 @	14:40:00	
GENERAL INFORMATION:							
Formation:         LCK K           Deviated:         No         Whipstock:           Time Tool Opened:         17:01:30           Time Test Ended:         20:50:45	ft (KB)		Test T Tester Unit No	: В	radley Walt	l Bottom Hol er	e (Reset
Interval: 3921.00 ft (KB) To 39	63.00 ft (KB) (TVD)		Refere	ence Elev	vations:	2708.00	ft (KB)
Total Depth: 3963.00 ft (KB) (TV						2703.00	
Hole Diameter: 7.88 inches Hole	Condition: Good			KB to	GR/CF:	5.00	ft
Serial #: 8365         Inside           Press@RunDepth:         100.82 psig           Start Date:         2015.10.04           Start Time:         14:40:05	@ 3922.00 ft (KB) End Date: End Time:	2015.10.04 20:50:44	Capacity: Last Calib.: Time On Btr Time Off Bt	n: 20	015.10.04 (	8000.00 1899.12.30 @ 17:01:15 @ 19:07:45	psig
FF: 2 1/2" blow . FSI: No return. Pressure vs. T			PRE	SSUR	E SUMM/	ARY	
2000	8305 Tomporiture 115	Time		Temp	Annotatio	n	
1700		(Min.) 0		deg F)	Initial Hydro	etatio	
	97 - 105	1	15.19		Open To Fl		
****		32			Shut-In(1)	( )	
		65			End Shut-Ir		
	20	65 94		1	Open To Fl	ow (2)	
		94 127		1	Shut-In(2) End Shut-Ir	(2)	
		127		1	Final Hydro		
4 Sun Oct 2015 Time (Haun)	944						
Length (ft) Description	Volume (bbl)			Gas Choke (ind	Rates	e (psig) Ga	s Rate (Mcf/
190.00 w cm 10w 90m	1.60			2.1010 (IIK		- (9)	
1 1							

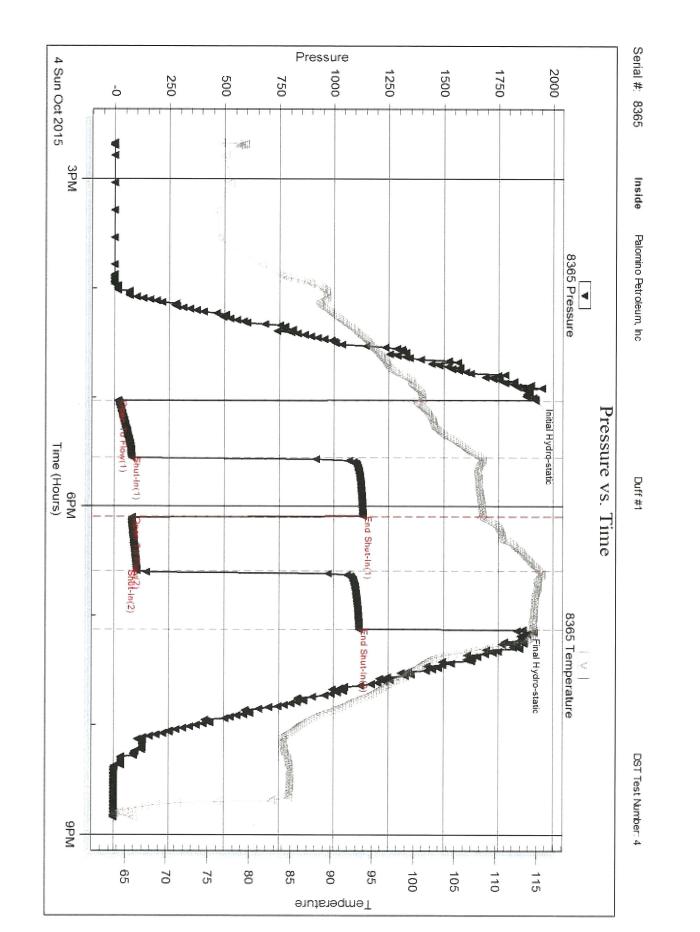
	DBITE  -	Palomino Petroleum, Inc	100 A	0 15- 20-	v Logan,K	e
TEC	TING INC				- Luyan,N	0
		924 SE 84th St. Jew ton, KS 67114		Duff #1		
	l I	ew lon, NS 07114		Job Ticket:	61833	DST#:4
	A	TTN: John Goldsmith		Test Start:	2015.10.04 (	@ 14:40:00
GENERAL INFORM	ATION:					
Formation: LCK Deviated: No Time Tool Opened: 17:01	Whipstock:	ft (KB)		Test Type: Tester:	Convention Bradley Wa	al Bottom Hole (Reset alter
Time Test Ended: 20:50				Unit No:	69	
	<b>ft (KB) To 3963.</b> 3.00 ft (KB) (TVD)	00 ft (KB) (TVD)		Reference	Elevations:	2708.00 ft (KB) 2703.00 ft (CF)
	7.88 inchesHole Co	ondition: Good		KI	B to GR/CF:	5.00 ft
Serial #: 8522	Outside					
Press@RunDepth: Start Date:	psig @ 2015.10.04	3922.00 ft (KB)	2015 10 01	Capacity:		8000.00 psig
Start Date: Start Time:	2015.10.04 14:40:05	End Date: End Time:	2015.10.04 20:50:44	Last Calib.: Time On Btm:		2015.10.04
				Time Off Btm:		
2000	¥ 4	BEZZ Tempendure	Time (Min.)	Pressure Temp (psig) (deg F		
2000	* /					ion
1200						
1230						
			Tempere			
770		50				
500						
	GTM Time (Han)					
	Tree(tan)			G	as Rates	
Eength (ft)	Time (Hann) Recovery Description	Volume (bbl)			····· 1	ure (psig) Gas Rate (Mcf/
20 334 3anOd 205	Time (Hann) Recovery Description				····· 1	ure (psig) Gas Rate (Mcf/
Eength (ft)	Time (Hann) Recovery Description	Volume (bbl)			····· 1	ure (psig) Gas Rate (Mcf/
Eength (ft)	Time (Hann) Recovery Description	Volume (bbl)			····· 1	ure (psig) Gas Rate (Mcf/
Eength (ft)	Time (Hann) Recovery Description	Volume (bbl)			····· 1	ure (psig) Gas Rate (Mcf/
Eength (ft)	Time (Hann) Recovery Description	Volume (bbl)			····· 1	ure (psig) Gas Rate (Mct/

RILOE	1	Palomin	o Petroleun	n, Inc		9-15s-32w Loga	n,KS
EST	TING , INC		∃84th St. n, KS_67114	4		Duff #1 Job Ticket: 61833	DST#:4
		ATTN:	John Golds	smith		Test Start: 2015.10.	.04 @ 14:40:00
Tool Information							· · · · · · · · · · · · · · · · · · ·
Drill Pipe: Length:				inches Volum		•	2500.00 lb
Heavy Wt. Pipe: Length:	0.00 ft [			inches Volum		0	icker: 25000.00 lb
Drill Collar: Length:	117.00 ft [	Diameter:	2.25	inches Volum		_	ose: 75000.00 lb
Drill Pipe Above KB:	23.00 ft			Total Volum	e: 53.88 bb	ol Tool Chased String Weight: In	0.00 ft itial 61000.00 lb
Depth to Top Packer:	3921.00 ft						inal 61000.00 lb
Depth to Bottom Packer:	ft					11	
Interval between Packers:	42.00 ft						
Tool Length:	69.00 ft		A 75	in the sec			
Number of Packers: Tool Comments:	2 [	Diameter:	6.75	inches			
roor commenta.							
Tool Description		gth (ft)	Serial No	. Position		Accum. Lengths	
Change Over Sub		1.00			3895.00		
Shut In Tool		1.00 5.00					
-		1.00 5.00 5.00			3895.00 3900.00 3905.00		
Shut In Tool Hydraulic tool Jars		1.00 5.00 5.00 5.00			3895.00 3900.00 3905.00 3910.00	g	
Shut In Tool Hydraulic tool Jars Safety Joint		1.00 5.00 5.00 5.00 2.00			3895.00 3900.00 3905.00 3910.00 3912.00		
Shut In Tool Hydraulic tool Jars Safety Joint Packer		1.00 5.00 5.00 5.00 2.00 5.00			3895.00 3900.00 3905.00 3910.00 3912.00 3917.00	27.00	Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer		1.00 5.00 5.00 5.00 2.00 5.00 4.00			3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3921.00		Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb		1.00 5.00 5.00 2.00 5.00 4.00 1.00			3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3921.00 3922.00		Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder		1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	8365	Inside	3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3921.00 3922.00 3922.00		Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder		1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00	8365 8522	Inside	3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3921.00 3922.00 3922.00		Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations		1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 5.00		Inside	3895.00 3900.00 3905.00 3910.00 3912.00 3921.00 3922.00 3922.00 3922.00 3922.00		Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub		1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 5.00 1.00		Inside	3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3921.00 3922.00 3922.00 3922.00 3922.00 3927.00 3928.00		Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe	3	1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 5.00 1.00 31.00		Inside	3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3921.00 3922.00 3922.00 3922.00 3922.00 3922.00 3928.00 3928.00		Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub	3	1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 5.00 1.00 31.00 1.00		Inside	3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3922.00 3922.00 3922.00 3922.00 3927.00 3928.00 3959.00 3960.00	27.00	
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	3	1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 5.00 1.00 31.00 3.00		Inside	3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3921.00 3922.00 3922.00 3922.00 3922.00 3922.00 3928.00 3928.00		Bottom Of Top Pack
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub	3	1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 5.00 1.00 31.00 1.00		Inside	3895.00 3900.00 3905.00 3910.00 3912.00 3917.00 3922.00 3922.00 3922.00 3922.00 3927.00 3928.00 3959.00 3960.00	27.00	

1000	<b>T</b> RILOBITE	DRI	LL STEM TEST RE	PORT	_		FLUID S	UMMARY
		Palomir	no Petroleum, Inc		9-15s-32w	Logan,KS		
日本	ESTING , INC	4924 S	E 84th St.		Duff #1			
		New to	n, KS 67114		Job Ticket: 6	1833	DST#:4	
NOV.		ATTN:	John Goldsmith		Test Start: 2	015.10.04 @ 1	4:40:00	
Mud and Cu	ushion Information							
Mud Type: G			Cushion Type:			Oil API:		0 deg API
Mud Weight:	9.00 lb/gal		Cushion Length:			Water Salinity:		0 ppm
Viscosity:	50.00 sec/qt		Cushion Volume:		bbl			
Water Loss: Resistivity:	7.99 in³ ohm.m		Gas Cushion Type: Gas Cushion Pressure:		naia			
Salinity:	4000.00 ppm		Gas Cushion Pressure.		psig			
Filter Cake:	1.00 inches							
Recovery Ir	nformation							
			Recovery Table		\/_b	1		
	Lengt ft		Description		Volume bbl			
	<u> </u>	190.00	w cm 10w 90m		1.599	]		
	Total Length:	190	.00 ft Total Volume:	1.599 bbl				
	Num Fluid Samp	les: 0	Num Gas Bombs: 0		Serial #:			
	Laboratory Nam		Laboratory Location:					
	Recovery Comn	nents:						
l								
1								
1								

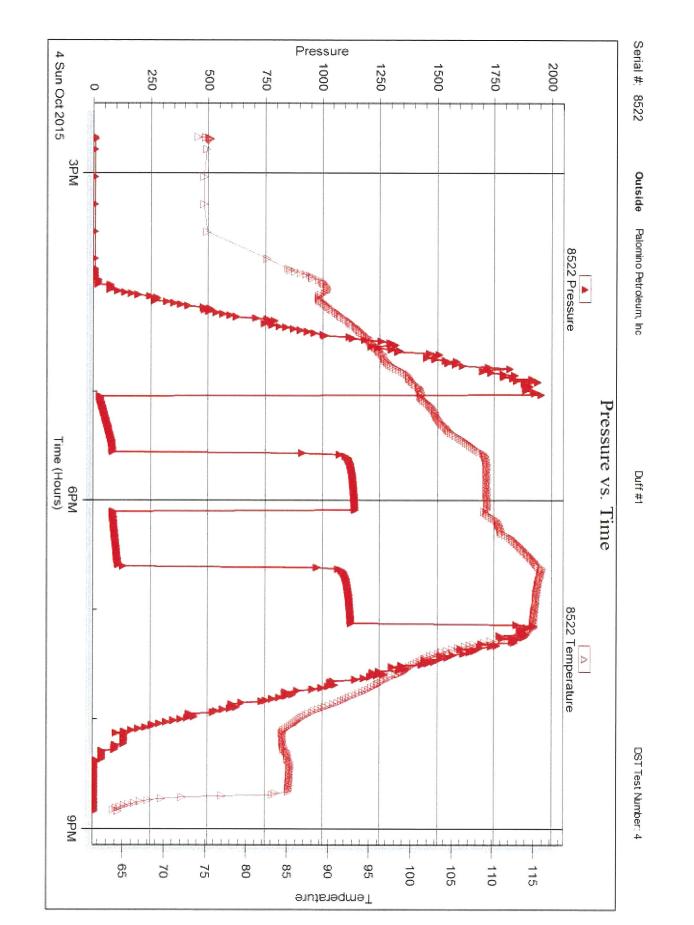
Printed: 2015.10.09 @ 11-31:11

Ref. No: 61833



Printed: 2015.10.09 @ 11:31:11

Ref. No: 61833





# DRILL STEM TEST REPORT

Prepared For:

### Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: John Goldsmith

### Duff #1

## 9-15s-32w Logan,KS

Start Date:	2015.10.05 @	@ 04:19:00	
End Date:	2015.10.05 @	@ 09:37:45	
Job Ticket #:	61834	DST #:	5

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

RILO.	Falui	nino Petroleum, Inc			9-1	5s-32w	Logan,KS	3	
ES IS	TING, INC $_{4924}$						<b>J</b> ,		
		SE 84th St. ton, KS 67114				ff #1			
					Job	Ticket: 61	1834	DST#:5	
	ATTA	J: John Goldsmith			Tes	t Start: 20	015.10.05 @	04:19:00	
GENERAL INFORMA	TION:						, , , , , , , , , , , , , , , , , , ,		
Formation: LKC L									
Deviated: No	Whipstock:	ft (KB)						I Bottom Hol	e (Reset
Time Tool Opened: 05:56:0 Time Test Ended: 09:37:4					Tes Unit		Bradley Wal 69	ter	
	t (KB) To 3968.00 f	t (KB) (TVD)			Ref	erence Ele	evations:	2708.00	ft (KB)
	00 ft (KB) (TVD)							2703.00	
Hole Diameter: 7.	88 inchesHole Condit	ion: Good				KB t	to GR/CF:	5.00	ft
	Inside				<b>•</b> •				
Press@RunDepth: Start Date:		3963.00 ft (KB) End Date:		2015.10.05	Capacity Last Calil			8000.00 2015.10.05	psig
Start Time:		End Time:	4	09:37:44	Time On		2015.10.05 (		
				00.07.1-1-1	Time Off		2015.10.05 ( 2015.10.05 (	-	
		5355 Tomponiuse	20	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotatio	n	
	Pressure vs. Time			20. 01			RE SUMM		
E 1 "1		-	20				Annotatio	n	
1730		11	15	(10011.)	(psig) 1979.12		   Initial Hydro	o-static	
		- 1	10	1	116.25		Open To Fl		
		*	<b>9</b> 5	31	389.92		Shut-In(1)		
		*		61	877.05		End Shut-Ir		
1000		- 92	귤	61 91	400.48 555.24		Open To Fl Shut-In(2)	ow(2)	
750		- 50		123	855.30		End Shut-In	n(2)	
				124	1895.12	116.57			
500 <u>-                                     </u>									
20									
		ce	5						
5 Mar Col 2015	li 7/44 24 Tirre (Haus)								
	Recovery						s Rates		
Length (ft)	Description	Volume (bb!)		<u> </u>		Choke (ii	·····	e (psig) Gas	Rate (Mcf/
1320.00 mcw 5m 9	5w	17.45		L		·			

	Pale	omino Petroleum, Inc		9-15s	s-32w Logan,	KS
ESTING	MIC					
	102	24 SE 84th St. w ton, KS 67114		Duff #		
					cket: 61834	DST#:5
		TN: John Goldsmith		Test S	Start: 2015.10.05	5 @ 04:19:00
GENERAL INFORMATION:						
Formation:LKCLDeviated:NoWhipsTime Tool Opened:05:56:00Time Test Ended:09:37:45	itock:	ft (KB)		Test Ty Tester Unit No	r: Bradley V	onal Bottom Hole (Reset Valter
Interval: 3962.00 ft (KB) T	o 3968.00	) ft (KB) (TVD)		Refere	ence Elevations:	2708.00 ft (KB)
Total Depth: 3998.00 ft (H						2703.00 ft (CF)
Hole Diameter: 7.88 inch	nesHole Conc	dition: Good			KB to GR/CF:	5.00 ft
Serial #: 8522 Outsid				_		
Press@RunDepth: Start Date: 2015.	psig @ 10.05	3963.00 ft (KB) End Date:	2015.10.05	Capacity: Last Calib.:		8000.00 psig 2015.10.05
	19:05	End Time:	09:37:44	Time On Btr		2010.10.00
				Time Off Btr	im:	
FF: BOB ( FSI: No re Press		502 Tempelare	Time		SSURE SUM	
FSI: No re	eturn.		Time (Min.)	Pressure	ESSURE SUM Temp Annot deg F)	
FSI: No re	eturn.			Pressure	Temp Annot	
FSI: No re	eturn.		129 (Min.) 115	Pressure	Temp Annot	
FSI: No re	eturn.		1529 (Min.) 115 119 1925	Pressure	Temp Annot	
FSI: No re	eturn.		529 (Min.) 115 119 195 500 T 199 500 T 199 500 T	Pressure	Temp Annot	
FSI: No re	eturn.		529 (Min.) 119 109 500 505 505 505 505 505 505 505 505 5	Pressure	Temp Annot	
FSI: No re	eturn.		1520 (Min.) 115 110 155 150 150 150 150 150 150 150	Pressure	Temp Annot	
FSI: No re	eturn.		520 (Min.) 115 120 55 55 55 55 55 55	Pressure	Temp Annot	
FSI: No re	eturn.		152 (Min.) 115 150 55 Interest 55 Interest 55 Second	Pressure	Temp Annot	
FSI: No re	eturn.		520 (Min.) 115 119 155 150 155 150 155 155 155 155 155 155	Pressure	Temp Annot	
FSI: No re	Plurn.		520 (Min.) 115 119 155 150 155 150 155 155 155 155 155 155	Pressure	Temp Annot	ation
FSI: No re	sturn.	RMA DMA	520 (Min.) 115 119 155 150 155 150 155 155 155 155 155 155	Pressure	Temp Annot deg F) Gas Rates	ation
FSI: No re	sturn.		520 (Min.) 115 119 155 150 155 150 155 155 155 155 155 155	Pressure	Temp Annot deg F) Gas Rates	ation
FSI: No re	sturn.	Revel Devi	520 (Min.) 115 119 155 150 155 150 155 155 155 155 155 155	Pressure	Temp Annot deg F) Gas Rates	ation
FSI: No re	sturn.	Revel Devi	520 (Min.) 115 119 155 150 155 150 155 155 155 155 155 155	Pressure	Temp Annot deg F) Gas Rates	ation
FSI: No re	sturn.	Revel Devi	520 (Min.) 115 119 105 55 56 56 57 75	Pressure	Temp Annot deg F) Gas Rates	ation

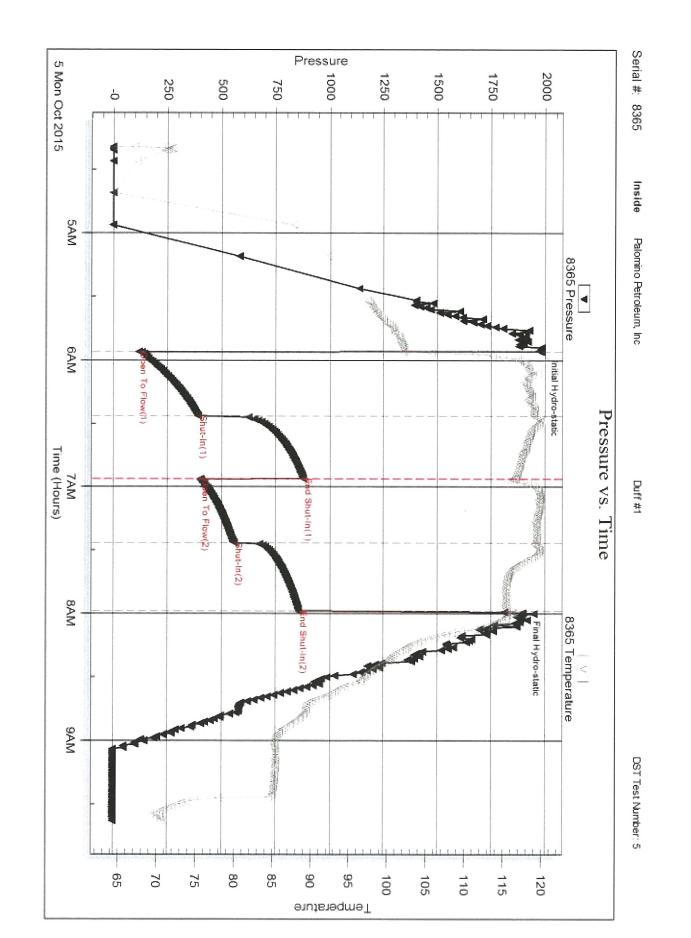
	LOBITE	Palomin	o Petroleur	n, Inc		9-15s-32w Logan,K	S
翻	ESTING , IN	C 4924 SI	E 84th St.			Duff #1	
			n, KS 6711	4		Job Ticket: 61834	DST#:5
		ATTN:	John Gold	smith		Test Start: 2015.10.05 (	
Tool Information		1				**********	
Drill Pipe: Len	igth: 3828.00 ft	Diameter:	3.80	inches Volume:	53.70 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe: Len	igth: 0.00 ft	Diameter:	0.00	inches Volume:	0.00 bbl	Weight set on Packer	r: 25000.00 lb
Drill Collar: Len	igth: 117.00 ft	Diameter:	2.25	inches Volume:	0.58 bbl	Weight to Pull Loose:	80000.00 lb
Drill Pipe Above KB:	10.00 ft			Total Volume:	54.28 bbl	Tool Chased	0.00 ft
Depth to Top Packer:	3962.00 ft					String Weight: Initial	61000.00 lb
Depth to Bottom Packe						Final	66000.00 lb
, Interval betw een Pack							
Tool Length:	63.00 ft						
Number of Packers:	2	Diameter:	6.75	inches			
Tool Comments:							
Tool Description	L	ength (ft)	Serial No	. Position	Depth (ft) A	Accum. Lengths	
	L	ength (ft) 1.00	Serial No	. Position	<b>Depth (ft)</b> A 3936.00	Accum. Lengths	
Change Over Sub	L		Serial No	. Position		Accum. Lengths	
Change Over Sub Shut In Tool	L(	1.00	Serial No	o. Position	3936.00	Accum. Lengths	New Processon (1997)
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars	L	1.00 5.00	Serial No	. Position	3936.00 3941.00	Accum. Lengths	
Change Over Sub Shut In Tool Hydraulic tool Jars	L	1.00 5.00 5.00	Serial No	. Position	3936.00 3941.00 3946.00	Accum. Lengths	
Change Over Sub Shut In Tool Hydraulic tool	L	1.00 5.00 5.00 5.00	Serial No	. Position	3936.00 3941.00 3946.00 3951.00	27.00	Bottom Of Top Packer
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer	L	1.00 5.00 5.00 5.00 2.00	Serial No	. Position	3936.00 3941.00 3946.00 3951.00 3953.00		Bottom Of Top Packer
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	L	1.00 5.00 5.00 5.00 2.00 5.00	Serial No	. Position	3936.00 3941.00 3946.00 3951.00 3953.00 3958.00		Bottom Of Top Packer
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	L	1.00 5.00 5.00 5.00 2.00 5.00 4.00	Serial No 8365		3936.00 3941.00 3946.00 3951.00 3953.00 3958.00 3962.00		Bottom Of Top Packer
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint	L	1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00		i Inside	3936.00 3941.00 3946.00 3951.00 3953.00 3958.00 3962.00 3963.00		Bottom Of Top Packer
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder	L	1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	8365	i Inside	3936.00 3941.00 3946.00 3951.00 3953.00 3958.00 3962.00 3963.00 3963.00		Bottom Of Top Packer
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	L	1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	8365	i Inside	3936.00 3941.00 3946.00 3951.00 3953.00 3958.00 3962.00 3963.00 3963.00	27.00	Bottom Of Top Packer

	Tr DR	ILL STEM TEST F	REPORT		F	LUID SUMMARY
RILOBI		ino Petroleum, Inc		9-15s-32w	Logan,KS	a anna 100 an 2000 an 2
ESTI	New to	SE 84th St. on, KS 67114 John Goldsmith		Duff #1 Job Ticket: 6 Test Start: 2	61834 2015.10.05 @ 04:	<b>DST#:5</b> 19:00
Mud and Cushion Info	rmation					
Mud Type: Gel Chem Mud Weight: 9.00 lb/ Viscosity: 53.00 se Water Loss: 8.79 in <sup>2</sup>	/gal ec/qt am.m om	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure	:	ft bbl psig	Oil API: Water Salinity:	0 deg API 65000 ppm
Recovery Information	989-999-9889-999					
-		Recovery Table			-	
	Length ft	Description		Volume bbl		
	1320.00	mcw 5m 95w		17.450	<u>_</u>	
Tota	I Length: 1320	0.00 ft Total Volume:	17.450 bbl			
	oratory Name: overy Comments: rv	Laboratory Location v is .137 @ 60F = 65,000ppm	1:			

Printed: 2015.10.09 @ 11:30:50

Ref. No: 61834

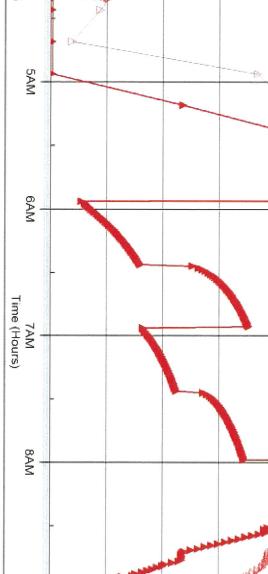
Trilobite Testing, Inc

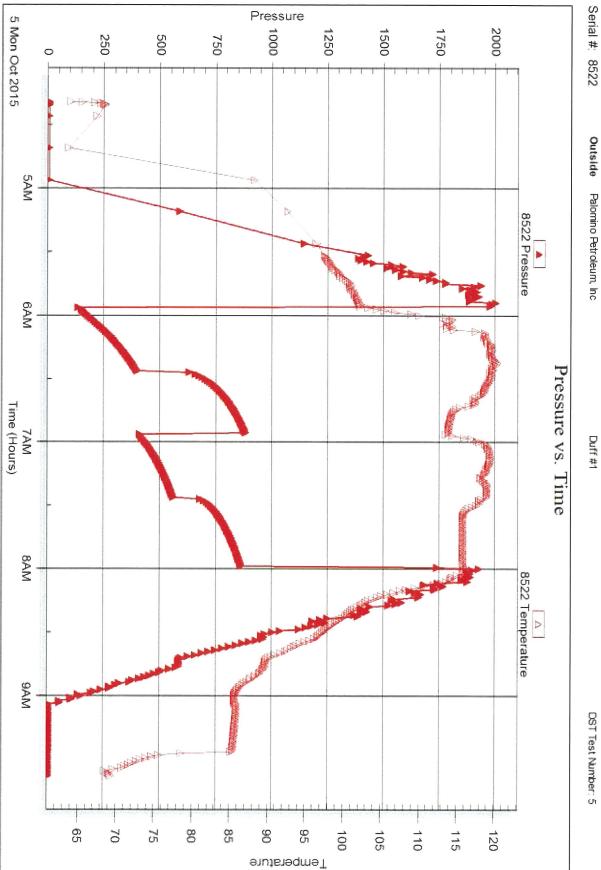


Printed: 2015.10.09 @ 11:30:50

Ref. No: 61834

Triobite Testing, Inc







# DRILL STEM TEST REPORT

Prepared For:

### Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: John Goldsmith

#### Duff #1

## 9-15s-32w Logan,KS

Start Date:	2015.10.06 @	2) 12:42:00	
End Date:	2015.10.06 @	@ 20:03:30	
Job Ticket #:	61835	DST #:	6

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

		Palomino Petroleum, Inc			9-1	15s-32w	Logan,K	S	
(雪)	ESTING , INC	4924 SE 84th St.			Du	ıff #1			
	•	New ton, KS 67114				Ticket: 6	1835	DST#: 6	;
		ATTN: John Goldsmith					2015.10.06 @		
Formation:	Johnson								
	No Whipstock: ened: 14:46:45 ded: 20:03:30	ft (KB)			Tes	ster:	Conventiona Bradley Wa 69	al Bottom Hol Iter	e (Rese
Interval:	4185.00 ft (KB) To 42	85.00 ft (KB) (TVD)			Ref	ference E	levations:	2708.00	ft (KB)
Total Depth:	4185.00 ft (KB) (T\							2703.00	
Hole Diameter	r: 7.88 inchesHole	Condition: Good				KB	to GR/CF:	5.00	ft
Serial #: 8		i mogninesmit ming, inte eit							
Press@RunD					Capacity	/:		8000.00	psig
Start Date:	2015.10.06	End Date:	2	015.10.06	Last Cal			2015.10.06	
Start Time:	12:42:05	End Time:		20:03:29	Time On Time Off		2015.10.06 2015.10.06		
220	Pressure vs. T	S305 Femperature	115	Time (Min.)	P Pressure (psig)	RESSU Temp (deg F)	RE SUMM		
229 2000 1770 1000 729 729 729 729 729 729 729 729		NO V	115 110 125 155 155 155 155 155 155 155 155 155		Pressure	Temp (deg F) 108.08 107.30 110.67 112.15 112.00	Annotation Initial Hydr Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In	on -o-static -low (1) ln(1) -low (2) ln(2)	
2000 1770 1720 1220 770 770 600			110 125 130 7emperatura 55 59	(Min.) 0 1 31 61 61 121 182	Pressure (psig) 2108.54 21.37 80.17 1069.23 94.54 125.66 1050.05	Temp (deg F) 108.08 107.30 110.67 112.15 112.00 115.04 116.76	Annotation Initial Hydr Open To F Shut-in(1) End Shut-in Open To F Shut-in(2) End Shut-in	on -o-static -low (1) ln(1) -low (2) ln(2)	
			110 125 130 7emperatura 55 59	(Min.) 0 1 31 61 61 121 182	Pressure (psig) 2108.54 21.37 80.17 1069.23 94.54 125.66 1050.05	Temp (deg F) 108.08 107.30 110.67 112.15 112.00 115.04 116.76 117.22	Annotation Initial Hydr Open To F Shut-in(1) End Shut-in Open To F Shut-in(2) End Shut-in	on -o-static -low (1) ln(1) -low (2) ln(2)	
	STOP Frank		110 125 130 7emperatura 55 59	(Min.) 0 1 31 61 61 121 182	Pressure (psig) 2108.54 21.37 80.17 1069.23 94.54 125.66 1050.05	Temp (deg F) 108.08 107.30 110.67 112.15 112.00 115.04 115.04 116.76 117.22	Annotation Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In(2) Final Hydr Final Hydr	on Fo-static Flow (1) In(1) Flow (2) In(2) o-static	s Rate (Mo
2000 1779 1220 1220 723 723 500 229 0 0 0 120 72 72 0 0 0 120 72 72 0 0 120 120 120 120 120 120 1	The process of the second seco	STM	110 125 130 7emperatura 55 59	(Min.) 0 1 31 61 61 121 182	Pressure (psig) 2108.54 21.37 80.17 1069.23 94.54 125.66 1050.05	Temp (deg F) 108.08 107.30 110.67 112.15 112.00 115.04 115.04 116.76 117.22	Annotation Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In(2) Final Hydr Final Hydr	on Fo-static Flow (1) In(1) Flow (2) In(2) o-static	s Rate (Mo
2000 1770 1700	SSC Presere SSC Presere Pres	Volume (bbl) NO Temperature Volume (bbl)	110 125 130 7emperatura 55 59	(Min.) 0 1 31 61 61 121 182	Pressure (psig) 2108.54 21.37 80.17 1069.23 94.54 125.66 1050.05	Temp (deg F) 108.08 107.30 110.67 112.15 112.00 115.04 115.04 116.76 117.22	Annotation Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In(2) Final Hydr Final Hydr	on Fo-static Flow (1) In(1) Flow (2) In(2) o-static	s Rate (Mo
2000 1759 1250	STOC Preserve STOC P	Volume (bbl) NO Temperature Volume (bbl)	110 125 130 7emperatura 55 59	(Min.) 0 1 31 61 61 121 182	Pressure (psig) 2108.54 21.37 80.17 1069.23 94.54 125.66 1050.05	Temp (deg F) 108.08 107.30 110.67 112.15 112.00 115.04 115.04 116.76 117.22	Annotation Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In(2) Final Hydr Final Hydr	on Fo-static Flow (1) In(1) Flow (2) In(2) o-static	s Rate (Mo
2000 1779 1270 1270 1270 1270 1270 1270 120.00 120.00	лост Под 200 20w 50л дw ост 10g 250 10w 55л	Volume (bbl) m 0.62 m 1.68	110 125 130 7emperatura 55 59	(Min.) 0 1 31 61 61 121 182	Pressure (psig) 2108.54 21.37 80.17 1069.23 94.54 125.66 1050.05	Temp (deg F) 108.08 107.30 110.67 112.15 112.00 115.04 115.04 116.76 117.22	Annotation Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In(2) Final Hydr Final Hydr	on Fo-static Flow (1) In(1) Flow (2) In(2) o-static	s Rate (Mo

(III) <u>RIL</u> OBIT	Pak	omino Petroleum, Inc		9-15s-	32w Logan,K	(S
ESTIN	G. INC				-	
		24 SE 84th St. v ton, KS 67114		Duff #		
		· · · · · · · · · · · · · · · · · · ·		Job Tic	ket: 61835	DST#:6
	AT	TN: John Goldsmith		Test St	art: 2015.10.06 (	@ 12:42:00
GENERAL INFORMATION	N:					
Formation: Johnson Deviated: No Whi Time Tool Opened: 14:46:45 Time Test Ended: 20:03:30	ipstock:	ft (KB)		Test Ty Tester: Unit No	Bradley Wa	nal Bottom Hole (Reset) alter
nterval: 4185.00 ft (KB	) To 4285.00	ft (KB) (TVD)		Refere	nce Elevations:	2708.00 ft (KB)
	t (KB) (TVD)					2703.00 ft (CF)
Hole Diameter: 7.88 ir	nchesHole Conc	lition: Good			KB to GR/CF:	5.00 ft
Serial #: 8522 Outs						
Press@RunDepth:	psig @	4186.00 ft (KB)		Capacity:		8000.00 psig
	15.10.06 12:42:05	End Date: End Time:	2015.10.06 20:03:29	Last Calib.: Time On Btm	<b>)</b>	2015.10.06
Aur IIIIo. I	2.72.00		20.00.29	Time Off Btn	-	
229 5727 Presure 200 1 1730 1	ressure vs. Time	RSZ Torproduce	s (Min.)	Pressure T	SSURE SUMN	
220 BZ2 Presure 200 1	Pressure vs. Time		s (Min.)	Pressure T	emp Annotat	
200 700 700 700 700 700 700 700	Trre (*Lp)		s (Min.)	Pressure T	Temp Annotat	
Z20 T20 T20 T20 T20 T20 T20 T20 T			s (Min.)	Pressure T (psig) (d	Gas Rates	ion
zzo militaria zzo zzo zzo zzo zzo zzo zzo zz			s (Min.)	Pressure T (psig) (d	Gas Rates	
200 700 700 700 700 700 700 700	Tree (Hans)	Volume (bbl)           0.62	s (Min.)	Pressure T (psig) (d	Gas Rates	ion
259 770 770 770 770 770 770 770 77	Tree (Hans)		s (Min.)	Pressure T (psig) (d	Gas Rates	ion
200 200 200 200 200 200 200 200	Tree (Hans)	Volume (bbl)           0.62           1.68	s (Min.)	Pressure T (psig) (d	Gas Rates	ion
259 770 770 770 770 770 770 770 77	Tree (Hans)	Volume (bbl)           0.62           1.68	s (Min.)	Pressure T (psig) (d	Gas Rates	ion
zm million zm m	Tree (Hans)	Volume (bbl)           0.62           1.68	s (Min.)	Pressure T (psig) (d	Gas Rates	ion

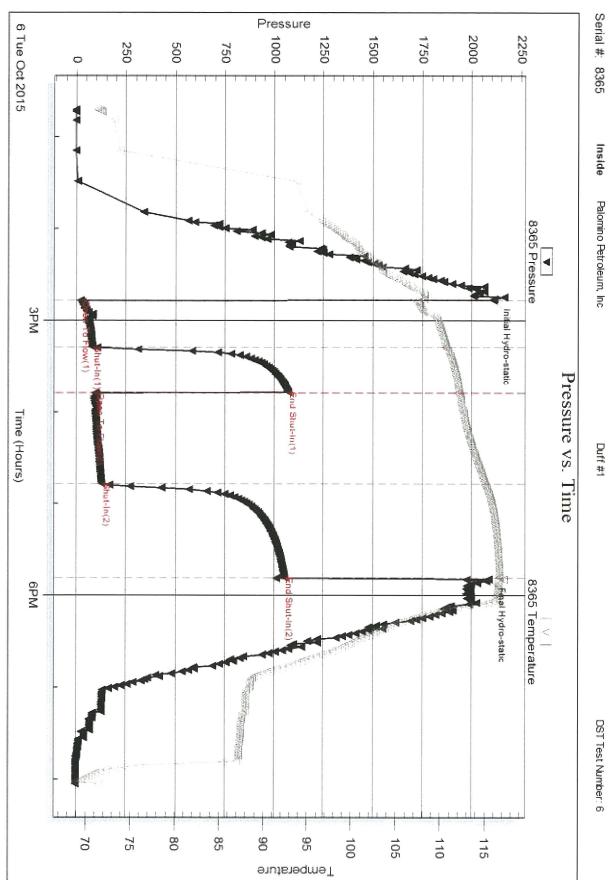
EEEN ICON	BITE		o Petroleum,	Inc		9-15s-32w Logan	,KS
	ΓING , INC	New ton	E84th St. , KS 67114 John Goldsn	nith		<b>Duff #1</b> Job Ticket: 61835 Test Start: 2015.10.0	DST#:6
Tool Information							
	4048.00 ft 0.00 ft 117.00 ft 7.00 ft 4185.00 ft ft 100.00 ft 127.00 ft 2	Diameter:	0.00 in 2.25 in	ches Volume: ches Volume: ches Volume: Total Volume: ches	0.00 bbl 0.58 bbl	Weight set on Pac Weight to Pull Loos	se: 80000.00 lb 0.00 ft al 66000.00 lb
<b>Fool Description</b> Change Over Sub Shut In Tool	Ler	1.00 5.00	Serial No.	Position	4159.00 4164.00	Accum. Lengths	
Hydraulic tool Jars		5.00 5.00 2.00			4169.00 4174.00 4176.00		
Safety Joint Packer		5.00			4178.00	27.00	Bottom Of Top Packe
		5.00 4.00 1.00 0.00 0.00 32.00	8365 8522	Inside Outside		27.00	Bottom Of Top Packe
Packer Packer Stubb Recorder Recorder		4.00 1.00 0.00 0.00			4181.00 4185.00 4186.00 4186.00 4186.00	27.00	Bottom Of Top Packe Bottom Packers & Ancho

()) 20()) 1 10(11)		DRII	L STEM TEST RE	EPORT		1	FLUID SU	MMAR
RILOB		Palomin	o Petroleum, Inc		9-15s-32w	Logan,KS		
EST I	ING , INC	4924 SE	84th St.		Duff #1			
		New ton	, KS 67114		Job Ticket: 6	1835	DST#:6	
		ATTN:	John Goldsmith		Test Start: 2	015.10.06 @ 12	2:42:00	
Aud and Cushion Info	ormation							
/lud Type: Gel Chem			Cushion Type:			Oil A PI:	0	deg API
Aud Weight: 9.00 ll			Cushion Length:		ft	Water Salinity:	0	ppm
/iscosity: 54.00 s			Cushion Volume:		bbl			
Vater Loss: 6.39 in			Gas Cushion Type:					
•	ohm.m		Gas Cushion Pressure:		psig			
Salinity: 4500.00 p ilter Cake: 1.00 ir	opm nches							
Recovery Information	1	1.1						
	I <u></u>		Recovery Table	1		7		
	Length ft		Description		Volume bbl			
			gw ocm 10g 20o 20w 50m		0.617	-		
			gw ocm 10g 25o 10w 55m		1.683	-		
		0.00	60' GIP		0.000			
Tot	tal Length:	240.0	00 ft Total Volume:	2.300 bbl				
Nu	m Fluid Sample	s: 0	Num Gas Bombs:	0	Serial #			
Lat	boratory Name:		Laboratory Location:					
Red	covery Comme	nts:						

Printed: 2015 10.09 @ 11:30:07

Ref. No: 61835

Trilobite Testing, Inc



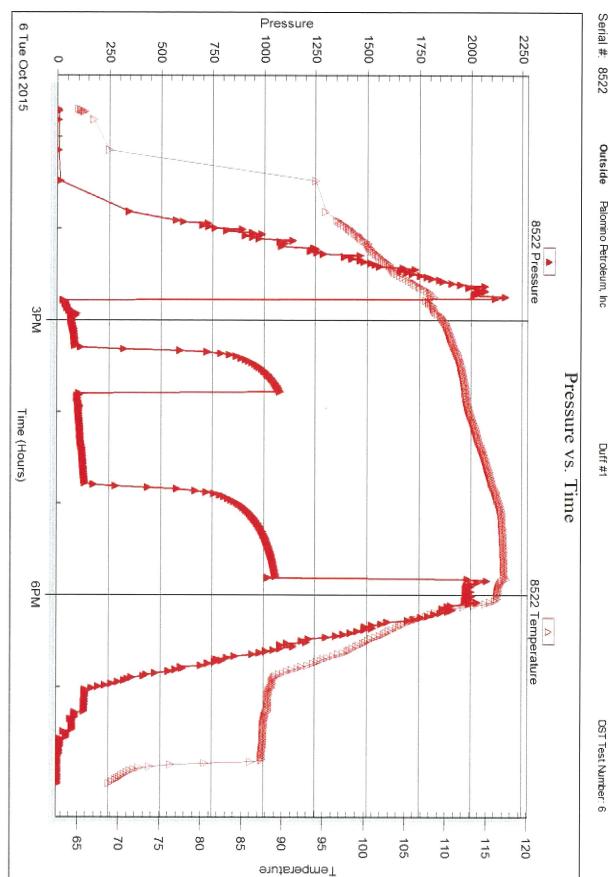
Duff #1

DST Test Number: 6

Printed: 2015.10.09 @ 11:30:07

Ref. No: 61835

Trilobite Testing, Inc



Duff #1



# DRILL STEM TEST REPORT

Prepared For:

#### Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: John Goldsmith

#### Duff #1

### 9-15s-32w Logan,KS

Start Date:	2015.10.07 @	03:08:00	
End Date:	2015.10.07 @	10:14:30	
Job Ticket #:	61836	DST #:	7

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

	RILOBITE	Palomino Petroleum, Inc			9-1	5s-32w	Logan	,KS	
国	ESTING , INC						3.1		
图目	1 CONTRACTOR	4924 SE 84th St. New ton, KS 67114				ff #1			
					Job	Ticket: 61	1836	DS	ST#: 7
<b>NOW</b>		ATTN: John Goldsmith			Tes	t Start: 20	015.10.0	7 @ 03:08	:00
GENERAL	INFORMATION:								
Formation: Deviated: Time Tool Ope	Morrow No Whipstock: ened: 05:10:00	ft (KB)			Tes Tes		Convent Bradley		m Hole (Reset
Time Test End	led: 10:14:30				Unit	: No:	69		
<b>Interval:</b> Total Depth: Hole Diameter	<b>4288.00 ft (KB) To 43</b> 3752.00 ft (KB) (TV 7 88 inchesHole				Ref	erence Ele	evations to GR/CI	270	08.00 ft (KB) 03.00 ft (CF) 5.00 ft
					* <del>* * * * * * * * * * * * * * * * * * </del>			•	5.00 h
Serial #: 8 Press@RunD Start Date: Start Time:		<ul> <li>4289.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>		015.10.07 10:14:29	Capacity Last Cali Time On Time Off	b.: Btm: :		800 2015.1 .07 @ 05:0 .07 @ 08:1	9:00
	IMENT: IF: BOB @ 8 min. ISI: No return. EF: BOB @ 10 mi	'n							
	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine			PI	RESSUF		MMARY	
2200 E	ISI: No return. FF: BOB @ 10 mi FSI: 2" return.			Time	Pressure	RESSUF		MMARY	
220 -	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine	- 120	(Min.)	Pressure (psig)	Temp (deg F)	Anno	otation	
2000	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine	- 120	(Min.) 0	Pressure (psig) 2157.28	Temp (deg F) 108.78	Anno Initial H	tation lydro-statio	
2000 1759	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine	- 120	(Min.)	Pressure (psig)	Temp (deg F) 108.78 107.82	Anno Initial H Open	tation łydro-static Γο Flow (1)	
2000	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine	- 110	(Min.) 0 1	Pressure (psig) 2157.28 82.26	Temp (deg F) 108.78 107.82 119.36 120.22	Anno Initial H Open Shut-Ir End Sh	etation tydro-static Fo Flow (1) n(1) nut-ln(1)	
2000	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine	- 110	(Min.) 0 1 31 62 62	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90	Temp (deg F) 108.78 107.82 119.36 120.22 119.88	Anno Initial H Open Shut-Ir End Sh Open	tation tydro-static To Flow (1) n(1) nut-In(1) To Flow (2)	
1739	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine	- 110	(Min.) 0 1 31 62 62 122	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90 414.16	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32	Anno Initial H Open Shut-Ir End Sh Open	tation tydro-static To Flow (1) n(1) nut-In(1) To Flow (2) n(2)	
2000	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine	- 110 - 100 Temperat	(Min.) 0 1 31 62 62	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32 124.54	Anno Initial F Open <sup>-1</sup> Shut-Ir End Sh Open <sup>-1</sup> Shut-Ir End Sh	tation tydro-static To Flow (1) n(1) nut-In(1) To Flow (2)	
	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. Ti	ine	- 110 - 100 Tempstature - 50 e	(Min.) 0 1 31 62 62 122 183	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90 414.16 1006.83	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32 124.54	Anno Initial F Open <sup>-1</sup> Shut-Ir End Sh Open <sup>-1</sup> Shut-Ir End Sh	tation tydro-static To Flow (1) h(1) hut-In(1) To Flow (2) h(2) hut-In(2)	
	ISI: No return. FF: BOB @ 10 mi FSI: 2" return.	innc NUC Verprodukt Verprodu	- 110 - 100 Tempstature - 50 e	(Min.) 0 1 31 62 62 122 183	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90 414.16 1006.83	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32 124.54 123.73	Anno Initial H Open <sup>-</sup> Shut-Ir End Sł Shut-Ir End Sł Final H	hydro-station To Flow (1) h(1) hut-ln(1) To Flow (2) h(2) hut-ln(2) hydro-static	
3000         -           1750         -           1000         -	ISI: No return. FF: BOB @ 10 mi FSI: 2" return.	innc NUC Verprodukt Verprodu	- 110 - 100 Tempstature - 50 e	(Min.) 0 1 31 62 62 122 183	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90 414.16 1006.83	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32 124.54 123.73	Anno Initial H Open Shut-Ir End St Open Shut-Ir End St Final H	hydro-station To Flow (1) h(1) hut-ln(1) To Flow (2) h(2) hut-ln(2) hydro-static	
2000 1770 120 12	ISI: No return. FF: BOB @ 10 mi FSI: 2" return.	inc Total Strengthere Total St	- 110 - 100 Tempstature - 50 e	(Min.) 0 1 31 62 62 122 183	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90 414.16 1006.83	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32 124.54 123.73	Anno Initial H Open Shut-Ir End St Open Shut-Ir End St Final H	tation lydro-static To Flow (1) n(1) To Flow (2) n(2) nut-In(2) hydro-static	
2000 177	ISI: No return. FF: BOB @ 10 mi FSI: 2" return.	inc NOT Temperate Te	- 110 - 100 Tempstature - 50 e	(Min.) 0 1 31 62 62 122 183	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90 414.16 1006.83	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32 124.54 123.73	Anno Initial H Open Shut-Ir End St Open Shut-Ir End St Final H	tation lydro-static To Flow (1) n(1) To Flow (2) n(2) nut-In(2) hydro-static	
2000 1770 100 1000 1	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. 13 SXXX Pressure Tree (Horn) Recovery Description Socw 20 98w	inc NOT Temperate Te	- 110 - 100 Tempstature - 50 e	(Min.) 0 1 31 62 62 122 183	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90 414.16 1006.83	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32 124.54 123.73	Anno Initial H Open Shut-Ir End St Open Shut-Ir End St Final H	tation lydro-static To Flow (1) n(1) To Flow (2) n(2) nut-In(2) hydro-static	
2000 1779 1000 100 1000 1	ISI: No return. FF: BOB @ 10 mi FSI: 2" return. Pressure vs. 19 Pressure vs. 19 Pressu	imc Terminate Termin	- 110 - 100 Tempstature - 50 e	(Min.) 0 1 31 62 62 122 183	Pressure (psig) 2157.28 82.26 211.20 1067.76 214.90 414.16 1006.83	Temp (deg F) 108.78 107.82 119.36 120.22 119.88 125.32 124.54 123.73	Anno Initial H Open Shut-Ir End St Open Shut-Ir End St Final H	tation tydro-static To Flow (1) n(1) To Flow (2) n(2) nut-In(2) tydro-static	

Printed: 2015.10.09 @ 11:29:43

1.43.41	RILOBITE	Palomino Petroleum, Inc		9-15s-3	2w Logan,K	S
(自主)	ESTING , INC	4924 SE 84th St.		Duff #1	•	
图目		4924 SE 84th St. New ton, KS 67114				D074 -
「御歌」					et: 61836	DST#:7
		ATTN: John Goldsmith		Test Star	rt: 2015.10.07 (	@ 03:08:00
GENERAL	INFORMATION:					
Formation:	Morrow			T 1 T	o o o o o o o o o o o o o o o o o o o	
Deviated: Time Tool Op	No Whipstock: ened: 05:10:00	ft (KB)		Test Typ Tester:	e: Conventior Bradley W	al Bottom Hole (Rese
	ded: 10:14:30			Unit No:	69	
Interval:	4288.00 ft (KB) To 43			Reference	ce Elevations:	2708.00 ft (KB)
Total Depth:						2703.00 ft (CF)
Hole Diamete	r: 7.88 inchesHole	Condition: Good			KB to GR/CF:	5.00 ft
Serial #: 8						
Press@RunE			0045 40 07	Capacity:		8000.00 psig
Start Date: Start Time:	2015.10.07 03:08:05	End Date: End Time:	2015.10.07 10:14:29	Last Calib.: Time On Btm:		2015.10.07
	03.08.05		10.14.29	Time Off Btm:		
	Pressure vs. T				SURE SUM	
				PRES	SURE SUM	/IARY
2259	Pressure vs. T	ime 8522 Torponkre	Time (Min.)	Pressure Te	mp Annotat	
2259			(Min.)	Pressure Te		
Ē		BSZ Torpunkre	(Min.)	Pressure Te	mp Annotat	
2000		852 Yerpinåre	(Min.)	Pressure Te	mp Annotat	
2000		BSZ Torpunkre	(Min.)	Pressure Te	mp Annotat	
2000		822 Torporture 72 74 74 74 74 74 74 74 74 74 74	(Min.)	Pressure Te	mp Annotat	
2000		822 Torporture 72 74 74 74 74 74 74 74 74 74 74	(Min.)	Pressure Te	mp Annotat	
2000		822 Torporture 72 74 74 74 74 74 74 74 74 74 74	(Min.)	Pressure Te	mp Annotat	
2000			(Min.)	Pressure Te	mp Annotat	
2000			(Min.)	Pressure Te	mp Annotat	
200			(Min.)	Pressure Te	mp Annotat	
2000			(Min.)	Pressure Te	mp Annotat	
			(Min.)	Pressure Te	mp Annotat	
2000 1773 1275	BEZZINGALER DESCRIPTION	PSZ Temperatere	(Min.)	Pressure Te (psig) (de	Gas Rates	
2000 1770	Recovery Description socw 20 98w	Part Property Part of the second seco	(Min.)	Pressure Te (psig) (de	Gas Rates	ion
2000 1770	Recovery Description Socw 20 98w gw mco 15g 25w 30m 30	Image: State of the s	(Min.)	Pressure Te (psig) (de	Gas Rates	ion
2000 1770	Recovery Description socw 20 98w	Part Property Part of the second seco	(Min.)	Pressure Te (psig) (de	Gas Rates	ion
2000 1770	Recovery Description Socw 20 98w gw mco 15g 25w 30m 30	Image: State of the s	(Min.)	Pressure Te (psig) (de	Gas Rates	ion
2000 1770	Recovery Description Socw 20 98w gw mco 15g 25w 30m 30	Image: State of the s	(Min.)	Pressure Te (psig) (de	Gas Rates	ion

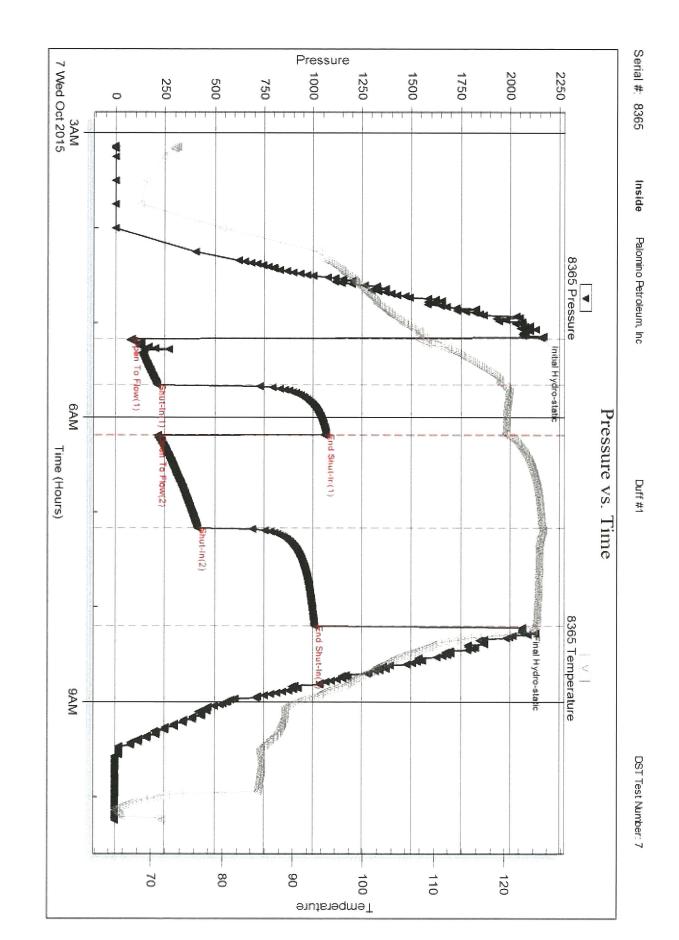
Rilol			o Petroleur	n, Inc		9-15s-32w Logan,K	TOOL DIAGRA
EST	FING , INC	4024.0	E 84th St.				-
		102101	= 84th St. 1, KS 6711	4		Duff #1	
			·, · · · · ·			Job Ticket: 61836	DST#:7
		ATTN:	John Gold	smith		Test Start: 2015.10.07 @	2 03:08:00
Tool Information							
Drill Pipe: Length:	4174.00 ft	Diameter:	3.80	inches Volume:	58.55 bbl	I Tool Weight:	2500.00 lb
Heavy Wt. Pipe: Length:	0.00 ft	Diameter:	0.00	inches Volume:	0.00 bbl	I Weight set on Packer	: 25000.00 lb
Drill Collar: Length:	117.00 ft	Diameter:	2.25	inches Volume:	0.58 bbl		80000.00 lb
Drill Pipe Above KB:	30.00 ft			Total Volume:	59.13 bbl		0.00 ft
Depth to Top Packer:	4288.00 ft					String Weight: Initial	65000.00 lb
Depth to Bottom Packer:	4200.00 ft					Final	67000.00 lb
nterval between Packers:	52.00 ft						
Tool Length:	79.00 ft						
Number of Packers:	2	Diameter:	6.75	inches			
Tool Comments:							
Tool Description Change Over Sub	Le	1.00	Serial No	o. Position	<b>Δερτη (π)</b> 4262.00	Accum. Lengths	
Shut In Tool		5.00			4267.00		
-tydraulic tool		5.00			4272.00		
iyu dullo tool							
Jars		5.00			4277.00		
•		5.00 2.00			4277.00 4279.00		
Jars						27.00	Bottom Of Top Packer
Jars Safety Joint		2.00			4279.00	27.00	Bottom Of Top Packer
Jars Safety Joint Packer		2.00 5.00			4279.00 4284.00	27.00	Bottom Of Top Packer
Jars Safety Joint Packer Packer		2.00 5.00 4.00	8365		4279.00 4284.00 4288.00	27.00	Bottom Of Top Packer
Jars Safety Joint Packer Packer Stubb		2.00 5.00 4.00 1.00	8365 8522		4279.00 4284.00 4288.00 4289.00	27.00	Bottom Of Top Packer
Jars Safety Joint Packer Packer Stubb Recorder		2.00 5.00 4.00 1.00 0.00 0.00 15.00			4279.00 4284.00 4288.00 4289.00 4289.00 4289.00 4304.00	27.00	Bottom Of Top Packer
Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub		2.00 5.00 4.00 1.00 0.00 0.00 15.00 1.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00	27.00	Bottom Of Top Packer
Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe		2.00 5.00 4.00 1.00 0.00 0.00 15.00 1.00 31.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00 4336.00	27.00	Bottom Of Top Packer
Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub		2.00 5.00 4.00 0.00 0.00 15.00 1.00 31.00 1.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00 4336.00 4337.00		Bottom Of Top Packer
Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose		2.00 5.00 4.00 0.00 0.00 15.00 1.00 31.00 1.00 3.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00 4336.00		Bottom Of Top Packer
Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub	I Length:	2.00 5.00 4.00 0.00 0.00 15.00 1.00 31.00 1.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00 4336.00 4337.00		
Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 4.00 0.00 0.00 15.00 1.00 31.00 1.00 3.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00 4336.00 4337.00		
Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	I Length:	2.00 5.00 4.00 0.00 0.00 15.00 1.00 31.00 1.00 3.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00 4336.00 4337.00		
Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	I Length:	2.00 5.00 4.00 0.00 0.00 15.00 1.00 31.00 1.00 3.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00 4336.00 4337.00		
ars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 4.00 0.00 0.00 15.00 1.00 31.00 1.00 3.00			4279.00 4284.00 4289.00 4289.00 4289.00 4289.00 4304.00 4305.00 4336.00 4337.00		

din-		DRI	ILL STEM TEST F	REPORT	•		FLUID SUMMARY
	RILOBITE	Palomir	no Petroleum, Inc		9-15s-32w	Logan,KS	
	TESTING , INC		SE 84th St. on, KS 67114		<b>Duff #1</b> Job Ticket: 6	_	DST#: 7
		ATTN:	John Goldsmith		Test Start: 2	015.10.07 @ 0	3:08:00
Mud and Ci	ushion Information						
Mud Type: G	Gel Chem		Cushion Type:			Oil A PI:	0 deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:	-
Viscosity:	51.00 sec/qt		Cushion Volume:		bbl		
Water Loss:	7.99 in <sup>3</sup>		Gas Cushion Type:				
Resistivity:	ohm.m		Gas Cushion Pressure	:	psig		
Salinity:	3300.00 ppm						
Filter Cake:	1.00 inches						
Recovery Ir	nformation		D				
	[		Recovery Table			1	
	Lengt ft	th	Description		Volume bbl		
		380.00	socw 2o 98w		4.265		
		570.00	gwmco 15g 25w 30m 30o		7.996		
		0.00	180' GIP		0.000		
	Total Length:	950	0.00 ft Total Volume:	12.261 bbl			
	Num Fluid Samp	les: 0	Num Gas Bombs:	0	Serial #		
	Laboratory Nam		Laboratory Locatio	n:			
	Recovery Com	nents:rw	v is .215 @ 65F = 36,000ppm				

Printed: 2015.10.09 @ 11:29:44

Ref. No: 61836

Trilobite Testing, Inc

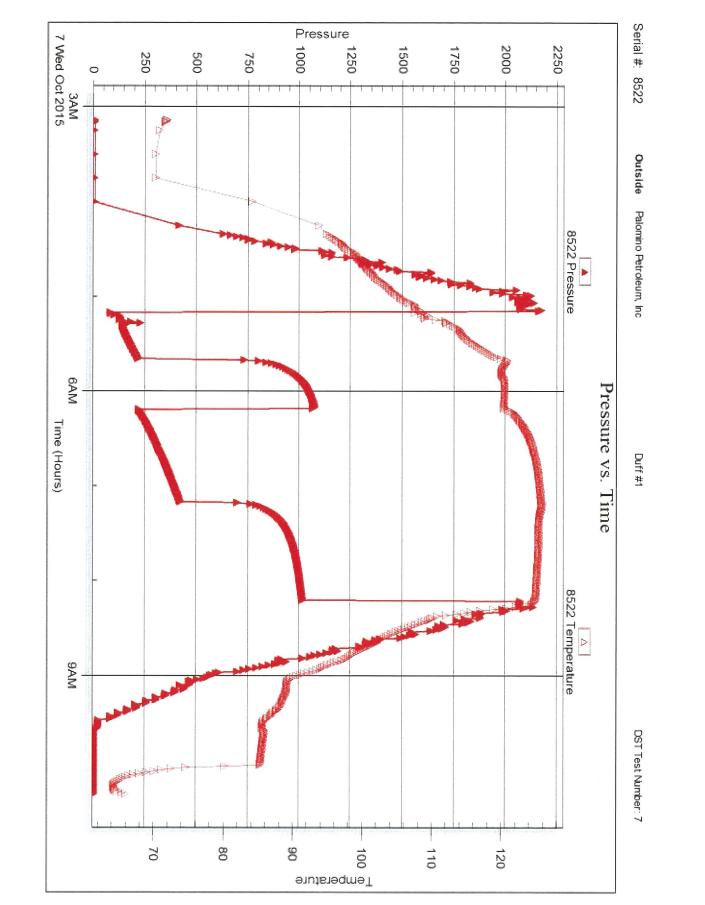




Ref. No: 61836

Trilobite Testing, Inc







## DRILL STEM TEST REPORT

Prepared For:

### Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: John Goldsmith

#### Duff#1

### 9-15s-32w Logan,KS

Start Date:	2015.10.08 @	09:51:00	
End Date:	2015.10.08 @	15:38:00	
Job Ticket #:	61837	DST #:	8

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

RILOBITE	Palomino Petroleu	ım, inc		Q_1	55-3214/	Logan,KS	3	
ESTING,	IMO					Logan, ite	•	
	4924 SE 84th St. New ton, KS 671			Du	ff #1			
		14		Job	Ticket: 67	1837	DST#:8	}
	ATTN: John Gol	dsmith		Tes	t Start: 20	015.10.08 @	09:51:00	
GENERAL INFORMATION:								
Formation:     Marmaton       Deviated:     No     Whipsto       Time Tool Opened:     11:58:00       Time Test Ended:     15:38:00	ock: ft (KB)			Tes	ter:	Conventiona Bradley Wal 69	al Bottom Ho ter	e (Reset
Interval: 4056.00 ft (KB) To	4152.00 ft (KB) (TVD	)		Ref	erence Ele	evations:	2708.00	ft (KB)
Total Depth: 4510.00 ft (KE							2703.00	
Hole Diameter: 7.88 inche	sHole Condition: Good				KB t	OGR/CF:	5.00	ft
Serial #:         8365         Outside           Press@RunDepth:         120.00 p           Start Date:         2015.10           Start Time:         09:57	osig @ 4057.00 ft (ł 0.08 End Date:	<b)< td=""><td>2015.10.08 15:37:59</td><td>Capacity Last Cali Time On Time Off</td><td>b.: Btm: :</td><td>2015.10.08 ( 2015.10.08 (</td><td></td><td>psig</td></b)<>	2015.10.08 15:37:59	Capacity Last Cali Time On Time Off	b.: Btm: :	2015.10.08 ( 2015.10.08 (		psig
TEST COMMENT: IF: 1" blow . ISI: No retur FF: 1" blow FSI: No retu	rn.							
Pressu	re vs. Time			PI	RESSUE	RESUMM	ARY	
<b>8305 Pressure</b>	re vs. Time Stor Temperature		Time			RE SUMM		
		115	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotatio	on	
₹305 Pressure		110	(Min.) 0	Pressure (psig) 2183.74	Temp (deg F) 112.87	Annotatio	on o-static	
			(Min.) 0 1	Pressure (psig) 2183.74 73.61	Temp (deg F) 112.87 112.17	Annotatio Initial Hydro Open To Fl	on o-static	
230 770 750 750 750			(Min.) 0 1 31 60	Pressure (psig) 2183.74	Temp (deg F) 112.87 112.17 113.16	Annotatio	on o-static low (1)	
230 770 170 150			(Min.) 0 1 31 60	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25	Temp (deg F) 112.87 112.17 113.16 113.58 113.20	Annotatic Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl	on o-static low (1) n(1)	
223 200 1730 1750 17			(Min.) 0 1 31 60 60 90	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25 120.00	Temp (deg F) 112.87 112.17 113.16 113.58 113.20 113.24	Annotatic Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2)	on o-static low (1) n(1) low (2)	
			(Min.) 0 1 31 60	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25	Temp (deg F) 112.87 112.17 113.16 113.58 113.20 113.24	Annotatic Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir	on o-static low (1) n(1) low (2) n(2)	
			(Min.) 0 1 31 60 60 90 122	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25 120.00 939.48	Temp (deg F) 112.87 112.17 113.16 113.58 113.20 113.24 113.80	Annotatic Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir	on o-static low (1) n(1) low (2) n(2)	
The data set of the se	Aery		(Min.) 0 1 31 60 60 90 122	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25 120.00 939.48	Temp (deg F) 112.87 112.17 113.16 113.58 113.20 113.24 113.80 114.39	Annotatic Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static	
The dates of the second	reptures		(Min.) 0 1 31 60 60 90 122	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25 120.00 939.48	Temp (deg F) 112.87 112.17 113.16 113.58 113.20 113.24 113.80 114.39	Annotatic Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static	s Rate (Mcf/
The column is a constrained of	reptures		(Min.) 0 1 31 60 60 90 122	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25 120.00 939.48	Temp (deg F) 112.87 112.17 113.16 113.58 113.20 113.24 113.80 114.39	Annotatic Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static	s Rate (Mcfr
Z20 T75 T75 T75 T75 T75 T75 T75 T75	reptures		(Min.) 0 1 31 60 60 90 122	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25 120.00 939.48	Temp (deg F) 112.87 112.17 113.16 113.58 113.20 113.24 113.80 114.39	Annotatic Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static	s Rate (Mcfr
Z20 T75 T75 T75 T75 T75 T75 T75 T75	reptures		(Min.) 0 1 31 60 60 90 122	Pressure (psig) 2183.74 73.61 106.37 1087.85 108.25 120.00 939.48	Temp (deg F) 112.87 112.17 113.16 113.58 113.20 113.24 113.80 114.39	Annotatic Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static	s Rate (Mcf

	RILOBITE	Palomino Petroleum, Inc		9-15s-3	32w Logan,K	S
	ESTING , INC				-	
	I cormo raio	4924 SE 84th St. New ton, KS 67114		Duff #1		
		140W 1011, 110 07 1 14		Job Tick	et: 61837	DST#: 8
		ATTN: John Goldsmith		Test Sta	art: 2015.10.08 (	@ 09:51:00
GENERAL INF	FORMATION:					
Formation: Deviated: Time Tool Opened Time Test Ended:		ft (KB)		Test Typ Tester: Unit No:	Bradley Wa	nal Bottom Hole (Reset alter
Interval: 4	4056.00 ft (KB) To 41	52.00 ft (KB) (TVD)		Referen	ce Elevations:	2708.00 ft (KB)
Total Depth:	4510.00 ft (KB) (T∖	/D)				2703.00 ft (CF)
Hole Diameter:	7.88 inchesHole	Condition: Good			KB to GR/CF:	5.00 ft
Serial #: 852	•	dle)	i			
Press@RunDepth				Capacity:		8000.00 psig
Start Date: Start Time:	2015.10.08 09:51:05	End Date: End Time:	2015.10.08 15:37:59	Last Calib.: Time On Btm:		2015.10.08
	09.01.00		10.37:09	Time On Btm: Time Off Btm:		
220	FF: 1" blow . FSI: No return. Pressure vs. 13	11 11 11 11 11 11 11 11 11 11 11 11 11	m (Min.)	Pressure Te	SURE SUMM emp Annotat eg F)	
2250	FSI: No return.	8522 Tempendure	(Min.) (Min.)	Pressure Te	emp Annotat	
220 200 1770 1790 17	FSI: No return.		(Min.) (Min.)	Pressure Te	emp Annotat	
220 2000 1770 1	FSI: No return.		(Min.) (Min.)	Pressure Te	emp Annotat	
220 2000 1770 1	FSI: No return.		(Min.) (Min.)	Pressure Te (psig) (de	Gas Rates	ion
220 2000 1770 1	FSI: No return.	NEW TOTOTOTALE	(Min.) (Min.)	Pressure Te (psig) (de	Gas Rates	ion
220 2000 1770 1	FSI: No return.	NEW TOTOTOTALE	(Min.) (Min.)	Pressure Te (psig) (de	Gas Rates	ion
220 2000 1770 1	FSI: No return.	NEW TOTOTOTALE	(Min.) (Min.)	Pressure Te (psig) (de	Gas Rates	ion
220 2000 1770 1	FSI: No return.	NEW TOTOTOTALE	(Min.) (Min.)	Pressure Te (psig) (de	Gas Rates	ion
220 2000 1770 1	FSI: No return.	NEW TOTOTOTALE	(Min.) (Min.)	Pressure Te (psig) (de	Gas Rates	ion
220 2000 1770 1	FSI: No return.	NEW TOTOTOTALE	(Min.) (Min.)	Pressure Te (psig) (de	Gas Rates	ion

	DRILL STEM TES		ORT		
RILOBITE	Palomino Petroleum, Inc		9-15s-3	32w Logan,K	(S
TESTING , INC	4924 SE 84th St. New ton, KS 67114		<b>Duff #</b> Job Tick	<b>1</b> et: 61837	DST#:8
	ATTN: John Goldsmith		Test Sta	art: 2015.10.08 (	
GENERAL INFORMATION:	*****				
Formation:MarmatonDeviated:NoWhipstock:Time Tool Opened:11:58:00Time Test Ended:15:38:00	ft (KB)		Test Ty <sub>l</sub> Tester: Unit No:	Bradley Wa	nal Bottom Hole (Reset) alter
Interval:4056.00 ft (KB) To41Total Depth:4510.00 ft (KB) (TvHole Diameter:7.88 inches Hole			Referen	ce Elevations: KB to GR/CF:	2708.00 ft (KB) 2703.00 ft (CF) 5.00 ft
Serial #: 8677 Inside					
Press@RunDepth:psigStart Date:2015.10.08Start Time:09:51:05	<ul> <li>4057.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>	2015.10.08 15:37:14	Capacity: Last Calib.: Time On Btm: Time Off Btm		8000.00 psig 2015.10.08
TEST COMMENT: IF: 1" blow . ISI: No return. FF: 1" blow . FSI: No return.					
Pressure vs. Ti 07/Fusure	BUT Terpendure			SURE SUM	
229 200 170 170 170 170 170 170 170 1	115 100 100 100 100 100 100 100 100 100	Time (Min.)		emp Annotat eg F)	lon
Recovery				Gas Rates	
Length (ft)     Description       125.00     Mud 100m (oil spots on to	Volume (bbl) pp) 0.69			Choke (inches) Press	sure (psig) Gas Rate (Mct/d)

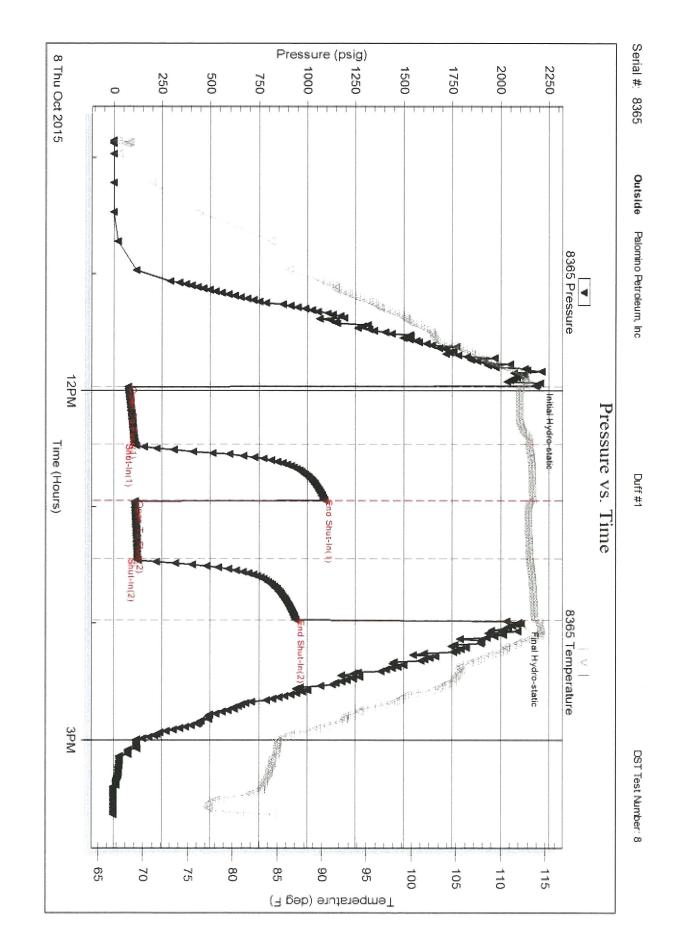
RILOB		Palomin	o Petroleun	n, Inc		9-15s-32w Logan,K	S
EST	'ING , INC		E 84th St. n, KS 67114	4		<b>Duff #1</b> Job Ticket: 61837	DST#:8
			John Gold	- mith			
		A I IN.				Test Start: 2015.10.08 @	<u>y</u> 09.51.00
Tool Information							
Drill Pipe: Length: Heavy Wt. Pipe: Length: Drill Collar: Length:	3925.00 ft 0.00 ft 117.00 ft	Diameter:	0.00	inches Volume: inches Volume: inches Volume:	0.00 bbl 0.58 bbl	Tool Weight: Weight set on Packer Weight to Pull Loose:	85000.00 lb
Drill Pipe Above KB: Depth to Top Packer: Depth to Bottom Packer: Interval betw een Packers:	13.00 ft 4056.00 ft ft 454.00 ft			Total Volume:	55.64 bbl	Tool Chased String Weight: Initial Final	0.00 ft 71000.00 lb 71000.00 lb
Tool Length: Number of Packers: Tool Comments:	481.00 ft 2	Diameter:	6.75	inches			
Tool Description	Len	igth (ft)	Serial No	. Position	Depth (ft) A	ccum. Lengths	
Change Over Sub		1.00			4030.00		
Shut In Tool		5.00			4035.00		
Hydraulic tool		5.00			4040.00		
Jars		5.00			4045.00		
Safety Joint		2.00			4047.00		
		5.00			4052.00	27.00	Bottom Of Top Packer
Packer							
Packer		4.00			4056.00		
Packer Stubb		4.00 1.00	~~~~	L. ••	4057.00		
Packer Stubb Recorder		4.00 1.00 0.00	8677		4057.00 4057.00		
Packer Stubb Recorder Recorder		4.00 1.00 0.00 0.00	8677 8365		4057.00 4057.00 4057.00		
Packer Stubb Recorder Recorder Perforations		4.00 1.00 0.00 0.00 1.00			4057.00 4057.00 4057.00 4058.00		
Packer Stubb Recorder Recorder Perforations Change Over Sub		4.00 1.00 0.00 0.00 1.00 1.00			4057.00 4057.00 4057.00 4058.00 4059.00		
Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe		4.00 1.00 0.00 0.00 1.00 1.00 93.00			4057.00 4057.00 4057.00 4058.00 4059.00 4152.00		
Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub		4.00 1.00 0.00 1.00 1.00 93.00 1.00			4057.00 4057.00 4058.00 4059.00 4152.00 4153.00		
Packer Stubb Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations		4.00 1.00 0.00 0.00 1.00 1.00 93.00			4057.00 4057.00 4057.00 4058.00 4059.00 4152.00	454.00	Tool Interva
Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub		4.00 1.00 0.00 1.00 1.00 93.00 1.00 5.00			4057.00 4057.00 4058.00 4059.00 4152.00 4153.00 4158.00	454.00	Tool Interva
Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Packer		4.00 1.00 0.00 1.00 1.00 93.00 1.00 5.00 1.00			4057.00 4057.00 4058.00 4059.00 4152.00 4158.00 4158.00	454.00	Tool Interva
Packer Stubb Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Packer Blank Spacing		4.00 1.00 0.00 1.00 1.00 93.00 1.00 5.00 1.00 3.00			4057.00 4057.00 4058.00 4059.00 4152.00 4153.00 4158.00 4159.00 4162.00	454.00	Tool Interva
Packer Stubb Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Packer Blank Spacing Perforations		4.00 1.00 0.00 1.00 1.00 93.00 1.00 5.00 1.00 3.00 1.00			4057.00 4057.00 4058.00 4059.00 4152.00 4153.00 4158.00 4159.00 4162.00 4163.00	454.00	Tool Interva
Packer Packer Stubb Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Packer Blank Spacing Perforations Change Over Sub Recorder		4.00 1.00 0.00 1.00 1.00 93.00 1.00 5.00 1.00 3.00 1.00 3.00		Outside	4057.00 4057.00 4058.00 4059.00 4152.00 4153.00 4158.00 4159.00 4162.00 4163.00	454.00	Tool Interva

añs.	RILOBITE	DRI	LL STEM TEST REPORT	Г		FLUID S	UMMARY
		Palomir	no Petroleum, Inc	9-15s-32w	Logan,KS		
日本	ESTING , INC	4924 S	E 84th St.	Duff #1			
			n, KS 67114	Job Ticket: 6	51837	DST#: 8	
NOT .		ATTN:	John Goldsmith	Test Start: 2	2015.10.08 @ 09	9:51:00	
Mud and C	ushion Information		····				
Mud Type: 0	Gel Chem		Cushion Type:		Oil API:		0 deg API
Mud Weight:	9.00 lb/gai		Cushion Length:	ft	Water Salinity:		0 ppm
Viscosity:	50.00 sec/qt		Cushion Volume:	bbl			
Water Loss:	7.99 in <sup>3</sup>		Gas Cushion Type:				
Resistivity:	ohm.m		Gas Cushion Pressure:	psig			
Salinity: Filter Cake:	3400.00 ppm 1.00 inches						
Recovery I	nformation						
			Recovery Table	<b></b>	7		
	Leng ft	th	Description	Volume bbl			
		125.00	Mud 100m (oil spots on top)	0.688	3		
	Total Length:	125	.00 ft Total Volume: 0.688 bbl				
	Num Fluid Samp	oles: 0	Num Gas Bombs: 0	Serial #	:		
	Laboratory Nan		Laboratory Location:				
	Recovery Com	ments:					
I							

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Ref. No: 61837

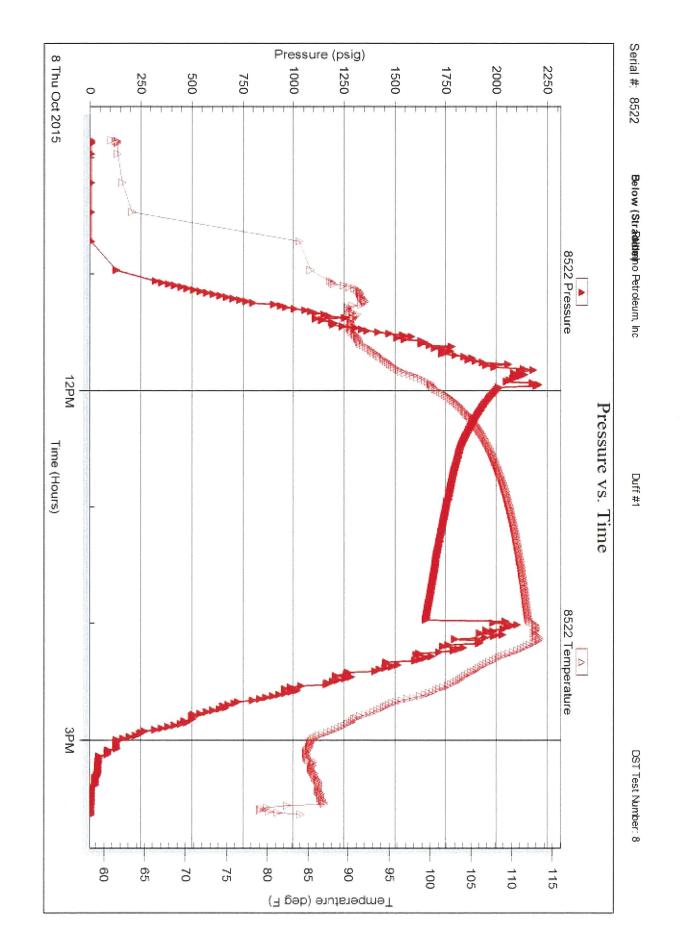
Trilobite Testing, Inc



Printed: 2015.10.09 @ 11:29:08

Ref. No: 61837

Tritobite Testing, Inc

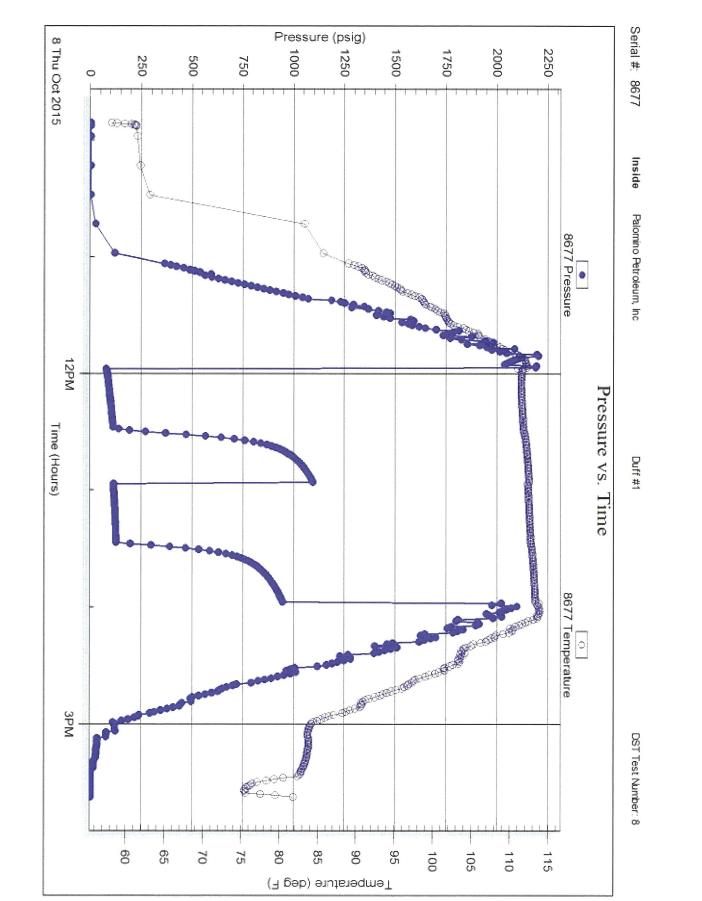


Printed: 2015.10.09 @ 11:29:08

Ref. No: 61837









**RILOBITE ESTING** INC. 1515 Commerce Parkway • Hays, Kansas 67601

**Test Ticket** 

61830 NO.

[										
Well Name & No.	D.F.	<u> </u>			Test No.			Date /	0/02/	12015
Company $P_{cr}$	lomino	Petrolés	1	, Inc	Elevation	270	S	KB		<u>3</u> GL
Address 49	<u>24 S</u>	ES4th	<u>5</u> ‡.	Newt	on Ks	6711	4	uni internetionali	·····	<b>0 L</b>
Co. Rep / Geo.					Rig	1	1			
Location: Sec	<u>1</u> т	iwp. <u>15 s</u>	Rg	e. <u>32 w</u>	Co4	Logan		Sta	ate <u>Ks</u>	
Interval Tested	3723	3 - 3752		Zone Tested	LKC	D			,	
Anchor Length	~	29		Drill Pipe Run	3610	Ó	M	ud Wt. 🥑	1,0	
Top Packer Depth	37	<u>1 \$</u>	ana	Drill Collars Rur	٦٢	2	Vi	is5	<b>-</b> 4	
Bottom Packer Depth	37	23		Wt. Pipe Run	Č	5		n. <u>6</u>		
Total Depth				Chlorides	2500	_ppm Syste	m LC	см^		
Blow Description	IF .	z' blow								
T	<u>si</u>	la relurn.						Notice for the state of the sta		
FI		5 blow		beek block and a second se		••••••••••••••••••••••••••••••••••••••		1999 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -		
		la return,								
Rec 245		1	·····		%gas	9	60il	70 %w	rater 🍃	5 <u>∂ %mud</u>
Rec60					%gas	9	60il	40 %w	vater i d	🤄 %mud
Rec	Feet of	OTL	Sroi	) <u>t</u> N 7	COL %gas	9	6oil	%w	later	%mud
Rec	Feet of				%gas	9	60il	%w	vater	%mud
Rec					%gas		60il	<u>%</u> w	rater	%mud
Rec Total30					_ API RW <u>118</u>	0 0 60	°F C	hlorides _	48,0	<u>00</u> _ppm
(A) Initial Hydrostatic_			r	Test 1050				ation		
(B) First Initial Flow			Ø	Jars 250				18		
(C) First Final Flow			/	Safety Joint	75			20		44
(D) Initial Shut-In		5.4	Ø	Circ Sub <u>M/c</u>				<u> </u>		
(E) Second Initial Flov				Hourly Standby						
(F) Second Final Flow				Mileage <u>47</u>						
(G) Final Shut-In		1 20 m C2		Sampler						
(H) Final Hydrostatic _		1809	D	Straddle		[	) Ruined	d Shale Pa	acker	
		30		Shale Packer		-	] Ruined	d Packer_		
Initial Open		· · ·	D	Extra Packer						
Initial Shut-In				Extra Recorder		S	ub Total	0		
Final Flow		-		Day Standby			otal	1422		
Final Shut-In		<u></u>		Accessibility			IP/DST	Disc't	,	Real Road Addition of the second s
			Sut	o Total <u>142</u>	2	4	1	X		
Approved By				Ou	ur Representativ	e	and h	Kill-	7-2	

#### Approved By \_

met 47.27 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.

RILOBITE 1515 Commerce Parkway · Hays, Kansas 67601

**Test Ticket** 

61831 NO.

Well Name & No. Duff #1	Test No	Date 10/03/2015
Company Palamina Petrolea	IM, INC Elevation 2	708 KB 2703 GL
Address 4924 SE 84th St.	Newton, Ks 67114	
Co. Rep/Geo. John Goldemith		#2
Location: Sec Twp15 ;	Rge32.uCoCoj	smStateKs
Interval Tested 3754 - 3786	Zone TestedKCE& F	
Anchor Length3 2	Drill Pipe Run 3641	Mud Wt. 9, 1
Top Packer Depth 3 7 4 9	Drill Collars Run/17	
Bottom Packer Depth 3754	Wt. Pipe Run 🖉	WL <i>\$,0</i>
Total Depth 3 7 8 6	Chlorides <i><u>3_000</u>ppm</i> S	+1
Blow Description <u>TE:</u> 1" blow	,	
TSI Ne return.		
FF Surface blow		
FS.I No return.		
Rec Feet of (0	TL SPCTSI %gas	%oil 10 %water 90 %mud
Rec Feet of	%gas	%oil %water %mud
Rec Feet of 20'	GID %gas	%oil %water %mud
Rec Feet of		%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Total 60 BHT 108	Gravity API RW@	F Chloridesppm
(A) Initial Hydrostatic 1629	赵 Test 1050	T-On Location 708
(B) First Initial Flow6	🗹 Jars 250	T-Started <u>0712</u>
(C) First Final Flow 3 (	🕑 Safety Joint75	T-Open
(D) Initial Shut-In(0.66	図 Circ Sub <u>///</u>	T-Pulled 28
(E) Second Initial Flow33	Hourly Standby	T-Out / 2 0 6
(F) Second Final Flow 41	) Mileage 47 R7 47	Comments
(G) Final Shut-In /⊖ ≲ ⊖	Sampler	
(H) Final Hydrostatic 19 17	Straddle	
	Shale Packer	Ruined Shale Packer
Initial Open 3 0	Extra Packer	Ruined Packer
Initial Shut-In3	Extra Recorder	Extra Copies Sub Total0
Final Flow 30	Day Standby	Total0
Final Shut-In 30	Accessibility	MP/DST Disc't
	Sub Total 1422	
Approved By		



**RILOBITE** ESTING INC. 1515 Commerce Parkway • Hays, Kansas 67601

**Test Ticket** 

61822 NO.

4/10 19:0011						
Well Name & No. <u>PUPF</u> #1 CompanyPalominu Petroleum	/ Inc				· · · · · · · · · · · · · · · · · · ·	<u>075</u> GL
Address 4924 SE 84th St.	Newlon, Ks					QL
Co. Rep/Geo. John Goldsmith		Rig	And a second sec			n hann a sa chaige d'ann agus ann an bhanna
Location: Sec. 9 Twp. 155	Rge. <u>3 2 -v</u>				State Ks	
Interval Tested 3932 - 3923	Zone TestedK		4			
Anchor LengthCt_t	Drill Pipe Run	, , ,		Mud Wt	9.2	****
Top Packer Depth3 S 2 7	Drill Collars Run			Vis		
Bottom Packer Depth3 \$332				WL		
Total Depth 3 923	Chlorides 4	_	System	LCM		an da ana ang mang kang di kanan di nana di nana pang mang mang mang mang mang mang mang m
Blow Description		6PP''''	5,510111	LOWI		
IST: No velura		·····				
FF: 3° blow.						
HST: No return						anter Millando de La La como en este en
Rec′∕∑∂ Feet of∪⊂m		%gas	%oil	10	%water 90	%mud
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 160 BHT105	Gravity AF		~~~°F		es	ppm
(A) Initial Hydrostatic1896	🖼 Test 1050	eminin vini internet i vini internet in		ocation		ppm
(B) First Initial Flow	🖾 Jars 250			ed		
(C) First Final Flow 7 7	Safety Joint75		T-Open		3435	
(D) Initial Shut-In	Sirc Sub		T-Pulled	dC	3635	
(E) Second Initial Flow 8 2	Hourly Standby		T-Out		<u> 208</u>	
(F) Second Final Flow しのえ	Mileage 47 RT		Comme	ents		
(G) Final Shut-In 1 6 86	Sampler					
(H) Final Hydrostatic   \$ 6 4	Straddle					
	□ Shale Packer				Packer	
Initial Open	Extra Packer				19	
Initial Shut-In	Extra Recorder					
Final Flow 30	Day Standby					
Final Shut-In	Accessibility					
				,		and a second
	1766		1	1.6		

Approved By \_

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1/10	- 184 L	100	

RILOBITE ESTING INC.

1515 Commerce Parkway · Hays, Kansas 67601

**Test Ticket** 

61833 NO.

······				
Well Name & No. DJ fJ #	Test No.	4	Date	4/2015
Company Palomina Petrola	evin Tile Elevation	2768	кв 270	23 GL
	lewion, ES 67/14			
Co. Rep/Geo. John Goldson.	, t	NW #2		
Location: Sec. 9 Twp. 155	Rge <u>32w</u> Co	-og un	State	TS
Interval Tested 3632 3472	Zone Tested	K		
Anchor Length $3921 - 3963$ +2	Drill Pipe Run 3 80 a	<u>,</u>	Mud Wt	
Top Packer Depth 3916	Drill Collars Run	7	Vis	
Bottom Packer Depth3921	Wt. Pipe Run 🕖		WL <u><i>S.</i></u> C	
Total Depth 3963	Chlorides4, 60 0	ppm System	LCM_17	
Blow Description $TF' 4"b/oa$	/			
JST: No relam.				
FF = z z blow				
FSI: Noveturn				her followed and the second
Rec 190 Feet of WC M	%gas	%oil	(0 %water	90 %mud
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 190 BHT 109	Gravity API RW	@ ^ *	F Chlorides	
(A) Initial Hydrostatic1421	Test 1050		-ocation 1400	· · · · · · · · · · · · · · · · · · ·
(B) First Initial Flow15		T-Star	ted <u>1440</u>	
(C) First Final Flow 7 7	Safety Joint 75	T-Ope	n	<u>is</u>
(D) Initial Shut-In L134	Circ Sub 4/c	T-Pulle	ed <u>190</u>	15
(E) Second Initial Flow 7 G	Hourly Standby	T-Out	20 \$	5/
(F) Second Final Flow 0	Mileage <u>47 K7</u> 47	Comm	ients	
(G) Final Shut-In	□ Sampler			a 17
(H) Final Hydrostatic1966	Straddle			
	Shale Packer		ined Shale Packer	
Initial Open 20	Extra Packer		ined Packer	
Initial Shut-In30	Extra Recorder		tra Copies	
Final Flow	Day Standby		otal <u>0</u> 1422	
Final Shut-In	Accessibility			
	Sub Total 1422		ST Disc't	
Approved By		- //	A	

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**RILOBITE ESTING** INC. 1515 Commerce Parkway • Hays, Kansas 67601

**Test Ticket** 

NO. 61834

Well Name & No. Duff #1	Test	No. 5	Date 10/05/2	215
Company Palomulo Petroleum, I	Eleva	ation 2708	кв 2703	GL
Address 4424 84th St. New	lon, Ks 67114		and field to a firm of the second	
Co. Rep/Geo. John Goldsmith	1	WW #2		
Location: Sec. 9 Twp. 15 5			State 65	
Interval Tested 3962 - 3995	Zone TestedLKC	Ĺ		
Anchor Length	Drill Pipe Run		Mud Wt. T.d	
Top Packer Depth 3957	Drill Collars Run	117	Vis <u>53</u>	
Bottom Packer Depth3962	Wt. Pipe Run	Ø	WI S.S	
Total Depth 394 S			LCM 1.5#	
Blow Description BOB C 12	M(M)			
JEL NO réfurn.				
FF: BOB(C) 2 1				
FCZ Novietura.				
Rec 13.20 Feet of MCW	%0	nas %oil	95 %water 5	%mud
Rec Feet of	%c	jas %oil	%water	%mud
Rec Feet of	%0	jas %oil	%water	%mud
Rec Feet of	%c	jas %oil	%water	%mud
Rec Feet of	%c	jas %oil	%water	%mud
Rec Total 1320 BHT 116	Gravity API RW	.132060	F Chlorides 650	
(A) Initial Hydrostatic1979	D1- 1050		Location 0400	4 1
(B) First Initial Flow	🖾 Jars <u>250</u>	T-Sta	rted <u>0419</u>	
(C) First Final Flow 390	足 Safety Joint 75	Т-Оре	an <u>0856</u>	
(D) Initial Shut-In	월: Circ Sub <u>세/c</u>	T-Pull	led <u>0756</u>	
(E) Second Initial Flow 400	Hourly Standby	T-Out	0938	
(F) Second Final Flow555	🖄 Mileage <u>47 &amp; 47</u>	Comr	ments	
(G) Final Shut-In <u>655</u>	□ Sampler			
(H) Final Hydrostatic I <u>§</u> 9.5	Straddle		uined Chala Destroy	
	Shale Packer		uined Shale Packer	
Initial Open	Extra Packer		uined Packer	
Initial Shut-In	Extra Recorder		xtra Copies īotal0	
Final Flow 5 0	Day Standby		1422	
Final Shut-In <u>3</u> <i>C</i>	Accessibility		DST Disc't	
	Sub Total 1422		/ /	
			1 10	

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Our Representative

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RILOBITE 1515 Commerce Parkway · Hays, Kansas 67601

**Test Ticket** 

NO.	61	$\mathcal{Q}$	2	
NO.	$\bigcirc$ (	1. F	۰. ۴	$\leq_{\rm opt}$

P							
Well Name & No.	DUA #1		Test No	6	Date	10/061	 2 <i>0</i> 5
CompanyP	Jomaio Petroleun	m, Enc	Elevation	2708		2703	 GI
Address 472	4 84th St	Newlon KS	67114	4		ter and the second s	QL
Co. Rep / Geo	John Goldsmith	L.	Ria	WW I	2	Alexandra and a second and	
Location: Sec.	9 Twp. 155			= Scoli	- Leephil	State KS	
Interval Tested	\$185 - 4285	Zone Tested	Johnso	¥1			
Anchor Length	100				Mud Wt.	9.2	
Top Packer Depth	4190	Drill Collars Run				54	
	4165	Wt. Pipe Run		Ø		8.0	
	4285				LCM		
Blow Description	TF 45 blow		· · ·				
TS	I: Novelurn.						
F1	=: 3½" blow						
	T: No jeturn.						
Rec20	Feet of <u>GWOCM</u>		10 %gas	25 %oil	10 .	%water <u>5</u>	> %mud
	Feet of <u>Guarm</u>		1 () %gas	ZO %011	20 0	%water SC	? %mud
Rec	Feet of 60	CTP	%gas	%oil		%water	%mud
Rec	Feet of		%gas	%oil		%water	%mud
Rec			%gas		(	%water	%mud
Rec Total	40 внт 117	GravityA		_@^i	- Chloride	s	ppm
(A) Initial Hydrostatic_	2109	🖄 Test <u>1150</u>				1930	
(B) First Initial Flow	21	🕅 Jars <u>250</u>		T-Start	ed	1242	
(C) First Final Flow	80	Safety Joint 7	5	T-Oper	۱	14 48	
(D) Initial Shut-In	1069	<sup>™</sup> Circ Sub <u>N/c</u>				1748	
(E) Second Initial Flow		Hourly Standby				004	
(F) Second Final Flow	126	Mileage <u>47 RY</u>	47	Comm	ents		•••••••••••••••••••••••••••••••••••••••
(G) Final Shut-In	1050	G Sampler					
(H) Final Hydrostatic_	2097	Straddle		Without would be a set of the set	inod Shala	Doolean	
		Shale Packer				Packer	
Initial Open	.30	Extra Packer				PL	
Initial Shut-In	30	Extra Recorder			<u>^</u>		
Final Flow	6 C	Day Standby			1522		
Final Shut-In	<u>6-C</u>	Accessibility					6111-60 <b>80am</b> -1004-00-00-0
		Sub Total 1522			27		//
				1. 14			



**RILOBITE** ESTING INC. 1515 Commerce Parkway · Hays, Kansas 67601

**Test Ticket** 

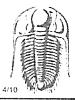
NO.	-6	hum	8	2
NU.	10	ć	~ '	÷

C

Well Name & No. DUff #		Test No.	7		57/20K
Company Palomino Petioleum,	Inc	Elevation	2708	КВ270	$\frac{1}{3}$ GI
Address 4924 84th St N	Lewlon, ts		-7114		UL
Co. Rep/Geo. John Goldsonilh	,	Rig U	W#Z	anna a fhair an	
Location: Sec. 9 Twp. 155		_coSc	ott-Loga	State	Ks
Interval Tested 4288 4340					
Anchor Length 52		4177		Mud Wt. 9, 1	
Top Packer Depth <u>4283</u>		117			
Bottom Packer Depth 4288				WL \$.0	
Total Depth 4340		<u>3300 pp</u>		*	
Blow Description IF! BOB @ SM			-		
ISI: No return					
FF: BOBQ 10	MIN				
FSI: 2" return.					
Rec 370 Feet of CW Mcd		15 %gas	30 %oil	30 %water	25 %mud
Rec 380 Feet of SOCW		%gas	2 %oil	78 %water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of 180	GIP	%gas	%oil	%water	%mud
Rec Feet of				%water	%mud
Rec Total950 BHT125	Gravity	API RW 216	@ <u>_65</u> °ı	F Chlorides	<u>, 000 ppm</u>
(A) Initial Hydrostatic2157	Star Test 1150		T-On L	ocation0	2 
(B) First Initial Flow答え	DF Jars 250		T-Start	red <u>030</u>	3
(C) First Final Flow 2 1	Safety Joint7	75	T-Oper	m050	5
(D) Initial Shut-In しのほろ	図 Circ Sub <u>M/c</u>			ed <u>0 8 09</u>	
(E) Second Initial Flow215	Hourly Standby			1015	
(F) Second Final Flow	Mileage 47 K-	47	Comm	send 1	
(G) Final Shut-In (0 0 7	Sampler			11415	
(H) Final Hydrostatic20644	Straddle		- 🗆 Ru	ined Shale Packer	
	Shale Packer			ined Packer3	
Initial Open 30	Extra Packer			tra Copies	
Initial Shut-In3C	Extra Recorder			ntal 320	
Final Flow 60	Day Standby			1842	
Final Shut-In $\hat{C}_2 C'$	Accessibility		MP/D	ST Disc't	
	Sub Total 1522			1 PM	
Approved By	Our	Representative		Alto	>>

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**RILOBITE ESTING** INC. 1515 Commerce Parkway • Hays, Kansas 67601

**Test Ticket** 

NO.	6	Same Press	8	3

7

Well Name & No. Duff #	·	Test No.	8	Date <u>10/08</u>	5/2015
	, Inc			КВ270-	<u>⊰</u> GL
	lewton, Ks				
Co. Rep/Geo. John Goldsmith			$WW^{\#2}$		
Location: Sec. <u>9</u> Twp. <u>155</u>	Rge <u>52 W</u>	Co	Logan	State	<u>KS</u>
Interval Tested 4056 - 4162	Zone Tested	Marmute	711		
Anchor Length 106 An chor 348 Tai	Drill Pipe Run	342	5	Mud Wt	
Top Packer Depth 4051	Drill Collars Run			Vis <u>50</u>	
Bottom Packer Depth 4056 / 4162 Str	addle Wt. Pipe Run	(	<u>)</u>	WL <u> </u>	
Total Depth4510	Chlorides	<u>40 ( pp</u>	m System	LCM_2#	
Blow Description					
TGI: No retorn.					
FF: 1"blow					
151: No refurn.					
Rec Feet of /00 A	<u>n</u>	%gas	%oil	%water	%mud
Rec Feet of	(OTL SPOTS ON A	op) %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 IZO BHT 114	Gravity		@°F	Chlorides	ppm
(A) Initial Hydrostatic2 84	🔁 Test <u>1150</u>	·····	T-On Lo	ocation $09+0$	
(B) First Initial Flow74	🛛 Jars 250		T-Starte	ed 0951	
(C) First Final Flow 2 6	Safety Joint7	5	T-Open	1158	
(D) Initial Shut-In / () 4, 3	🛛 Circ Sub			1_1358	
(E) Second Initial Flow/ $\dot{C}$ $\ddot{G}$	Hourly Standby			1537	<u> </u>
(F) Second Final Flow 2 0	Mileage 47 pt	47	Next	ents <u>Loaded</u>	
(G) Final Shut-In 9.3.3	Sampler				
(H) Final Hydrostatic <u>2106</u>	Straddle 60			nod Shala Paakar	
	🕅 Shale Packer			ned Shale Packer	
Initial Open ZC	Extra Packer			ned Packer	
Initial Shut-In $Z C$	Extra Recorder			ra Copies al0	
Final Flow 30	Day Standby			2372	
Final Shut-In 3 Ô	Accessibility			T Disc't	
			/ /,	N/	
Approved By	Our	Representative	ALY	1 atton	

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