

Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1200335

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

WELL COMPLETION FORM

			• • • • • • • • • • • • • • • • • • • •
WELL HISTO	RY - DESC	RIPTION OF V	VELL & LEASE

OPERATOR: License #		API No. 15
Name:		Spot Description:
Address 1:		
Address 2:		Feet from North / 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:
		Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)		Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.	c.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follo		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: Orig	ginal Total Depth:	
Deepening Re-perf. Cor	nv. to ENHR 🗌 Conv. to SWD	Drilling Fluid Management Plan
Plug Back Con	v. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
		Chloride content: ppm Fluid volume: bbls
	#:	Dewatering method used:
	#:	Location of fluid disposal if hauled offsite:
	#:	Location of huid disposal in hadied offsite.
	#:	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 III Approved by: Date:

	Page Two	1200335
Operator Name:	_ Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS: Chause important tang of formations paratrated	atail all aaraa Bapart all final	conice of drill stome tests giving interval tested, time test

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 She	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-o	RECORD Ne		ion, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			
Purpose:	Depth	Trace of Ocean ant	III On also I land		Turne and D		

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

(If No, skip questions 2 and 3) (If No, skip question 3)

No

No

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated				A		ement Squeeze Record of Material Used)	Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner Ru	n:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	} .	Producing N		oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	S.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS:		METHOD OF COMPLET				PRODUCTION IN	TERVAL:			
Vented Solo	1 🗌 I	Jsed on Lease		Open Hole	Perf.		Comp.	Commingled		
(If vented, Su	bmit ACC	0-18.)		Other (Specify)	(Submit)		(Submit ACO-4)		

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	JD 1
Doc ID	1200335

Tops

Name	Тор	Datum
Anhy.	1676	(+ 706)
Base Anhy.	1708	(+ 674)
Topeka	3472	(-1090)
Heebner	3762	(-1330)
Lansing	3799	(-1417)
ВКС	4079	(-1697)
Marmaton	4122	(-1740)
Pawnee	4194	(-1812)
Ft. Scott	4287	(-1905)
Cherokee Sh.	4305	(-1923)
Cherokee Sd.	4368	(-1986)
Miss.	4408	(-2026)
LTD	4529	(-2147)



PO Box 93999 Southlake, TX 76092

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

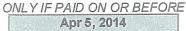
Bill To:

Palomino Petroleum, Inc. 4924 SE 84th St. Newton, KS 67114-8827 INVOICE Invoice Number: 141861

Invoice Date: Mar 11, 2014 Page: 1

Customer ID	Field Ticket #	Payment Terms		
Palo	54206	Net 30 Days		
Job Location	Camp Location	Service Date	Due Date	
KS1-03	Russell	Mar 11, 2014	4/10/14	

Quantity	Item		Description	Unit Price	Amount
1.00	WELLNAME	J D #1			A HE OFFICER STRUCTURE CALORS
230.00	CEMENT MATERIALS	60/40 Blend		15.30	3,519.00
60.00		Flo Seal		2.97	178.20
	CEMENT SERVICE	Cubic Feet Charge		2.48	570.40
	CEMENT SERVICE	Ton Mileage Charge		2.60	643.50
1.00	CEMENT SERVICE	Rotary Plug		2,213.75	2,213.75
50.00	CEMENT SERVICE	Heavy Vehicle Mileage		7.70	385.00
25.00	CEMENT SERVICE	Light Vehicle Mileage		4.40	110.00
1.00	CEMENT SUPER VISOR	Glenn Ginther			
1.00	OPERATOR ASSISTANT	Danny Sinner			
1.00	OPERATOR ASSISTANT	Jesse Cozart			
	×	Cubhalal			7.040.05
	S ARE NET, PAYABLE	Subtotal			7,619.85
	FOLLOWING DATE OF	Sales Tax			468.62
	. 1 1/2% CHARGED TER. IF ACCOUNT IS	Total Invoice Amou			8,088.47
	, TAKE DISCOUNT OF	Payment/Credit App	olied		
\$	1,523.97	TOTAL			8,088.47
0.00					



MAR 2 2 2014

EMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665		SERV	ICE POINT:	
KUSSELL, KANSAS U7005			Dusse	<u>11. Ks</u>
ATE 3-11-14 20 12 RANGE C	ALLED OUT	ON LOCATION	JOB START	OCO PM
EASE J.D. WELL# / LOCATION RANSO	W Le IE	Se he		STATE
LD OR NEW (Circle one)	<u> </u>	<u></u>	1/0005	
DNTRACTOR WW DRLG RIG #10	OWNER			
YPE OF JOB ROTARY PHUG.				
OLE SIZE 7 7/8 / T.D. 4530	CEMENT	DERED <u>230</u>	60	9 ~
ASING SIZE XXA DEPTH 513 UBING SIZE DEPTH	AMOUNT ORI	FID-Sea	<u>St 70 71</u> '	bliel
RILL PIPE 4/2 X -H DEPTH 1740		Florosed		
OOL DEPTH	<u></u>			
RES. MAX MINIMUM	COMMON		@	
IEAS. LINE SHOE JOINT	POZMIX		_@	
EMENT LEFT IN CSG.	GEL	•	_@	
ERFS	CHLORIDE		_@	
	230 SX 4	J Blen D		3519,00
EQUIPMENT	YA#FDSWI		@2.97	178.20
UMPTRUCK CEMENTER GLOWN G.	- /		@	
ANTHELPER DANAV S.			_@	
ULK TRUCK			_@	4
378 DRIVER JESSY G			_@ @	
ULK TRUCK			@	
DRIVER	HANDLING	230	@ 2.45	570.40
	MILEAGE	247.50	2.68	643,50
REMARKS:			TOTAL	Ø 11. 10
			7	7 1
50 St @ 1740'		SERVI	CE	
80 SX @ 960'		· · · · · · · · · · · · · · · · · · ·		
<u>50 SX @ 540'</u>	DEPTH OF JOI		•	<u></u>
20 SX & 60' 30 SX @ RetHole	PUMP TRUCK			2213,75
SU SA @ Rechole	EXTRA FOOT	I INE 50	@	385,00
	MÁNIFOLD_	mie se		
· ·	LUMI	2 25	@4.40	110,00
\square				· · · · · · · · · · · · · · · · · · ·
HARGETQ - 2 LOANING - ETROLEUM				175
REET			TOTAL	2708
TYSTATEZIP	F	LUG & FLOAT	EOUIPMENT	Г
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o: Allied Oll & Gas Services, LLC.				
ou are hereby requested to rent cementing equipment			_@	
d furnish cementer and helper(s) to assist owner or			@	
ntractor to do work as is listed. The above work was				•
ne to satisfaction and supervision of owner agent or			TOTAL	
stractor. I have read and understand the "GENERAL	ፍል፣ ወር ጥል ማረት	- A.m.y)		
RMS AND CONDITIONS" listed on the reverse side.	SALES TAX (II	n/	005	
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		47 60	110-	

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PO Box 93999 Southlake, TX 76092

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

Bill To:

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

Mar 28, 2014

Customer ID	Field Ticket #	Payment	Terms
Palo	55151	Net 30	Days
Job Location	Camp Location	Service Date	Due Date
KS1-01	Russell	Mar 3, 2014	4/2/14

Quantity	Item	Description	Unit Price	Amount
	WELLNAME	JD #1	47.00	E 270.00
300.00	CEMENT MATERIALS	Class A Common	17.90	5,370.00 135.36
564.00	CEMENT MATERIALS	Gel	0.24 0.80	676.80
846.00	CEMENT MATERIALS	Chloride	2.48	744.00
300.00	CEMENT SERVICE	Cubic Feet Charge	2.40	916.50
352.50		Ton Mileage Charge	1,512.25	1,512.25
1.00		Surface	7.70	385.00
	CEMENT SERVICE	Heavy Vehicle Mileage	4.40	110.00
	CEMENT SERVICE	Light Vehicle Mileage	4.40	110.00
	CEMENT SUPERVISOR	Tony Pfannenstiel		
1.00	EQUIPMENT OPERATOR			
1.00	EQUIPMENT OPERATOR	Kevin Rupp		
		Subtotal		9,849.9
ALL PRIC	ES ARE NET, PAYABLE	Sales Tax		380.2
30 DAYS	FOLLOWING DATE OF	Total Invoice Amount		10,230.1
INVOIC	E. 1 1/2% CHARGED FTER. IF ACCOUNT IS			
CURREN	IT, TAKE DISCOUNT OF	Payment/Credit Applied		10,230.1
\$	1,969.98	TOTAL		
ONLYIF	PAID ON OR BEFORE			

Invoice Number: 141732 Invoice Date: Mar 3, 2014 Page: 1

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MAR 1 5 2014

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EMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665		# 20-5975804	SERV	ICE POINT:	
·	CA	LLED OUT	ON LOCATION	JOB START	JOB FINISH
ATE 3.3.14 SEC. TWP. RANGE	>			COUNTY	STATE
EASE JD WELL# LOCATION	, Ran	son Ke	•	Ness	13
DLD OR NEW (Circle one) 5/2	· South	Cast 1	isto.		
		OWNER			
CONTRACTOR WWD		OWNER			
<u>IOLE SIZE / 2/44 T.D.</u>		CEMENT		oosk e	·
CASING SIZE 848 DEPTH 51	37	AMOUNT OR		1 21	900
UBING SIZE DEPTH			F 31. cc	7 21.	<u>deq</u>
DRILL PIPE DEPTH		····			
TOOL DEPTH		COMMON_	Barsh	@ 17.90	\$5,370.00
PRES. MAX MINIMUM	15	POZMIX			
MEAS. LINE SHOE JOINT	10	GEL	56416	@ .24	\$ 135.36
CEMENT LEFT IN CSG. 151		CHLORIDE		@ 180	\$676.80
DISPLACEMENT 31-72 WHYD		ASC	0.1.2		
				@	
EQUIPMENT	~			@	······
Change and the second s	Q			@	
PUMP TRUCK CEMENTER	<u> </u>			@	
# 409 HELPER A/Athan _				@`	
BULK TRUCK	2			@@	
it (1)		·	:	@	
BULKTRUCK		HANDLING	312 7	2 @ 2.48	\$ 744.00
# DRIVER		MILEAGE -	353.5 11	m 2.60	\$ 916.50
		MILEAOD 3		TOT	AL\$ 7,842.61
REMARKS:			ł	101	<u> </u>
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a A tot		DEPTUOE			513'
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But & Sugla al	······	MILEAGE-	Heavy ton	n @ 7.7	5 385.00
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CHARGE TO: <u>1 & COMING TO</u>	1000000	•		TO	ral \$ 2,007.2
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				@	
To: Allied Oil & Gas Services, LLC.	equipment			@	
You are hereby requested to rent cementing	owner or			@	
and furnish cementer and helper(s) to assist	e work was				
contractor to do work as is listed. The abov	er agént or			1,	TAL
done to satisfaction and supervision of own	GENERAL				
contractor. I have read and understand the ' TERMS AND CONDITIONS' listed on the	reverse side	SALES TA	X (II Any)	81001	-
TERMS AND CONDITIONS Instea of the	14,01040100	TOTALC	HARGES $5, 1, 1$	849,91	
	-		41919	98 4	F PAID IN 30 DAY
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TRATIES TRATE		· Ĺ	net 787	9,45	
		. 7		1	
C//A-att			•		
SIGNATURE				1	
SIGNATURE		-	· · · ·		



DRILL STEM TEST REPORT

Prepared For:

.

Palomino Petroleum Inc

4924 SE 84th St. Newton KS 67114

ATTN: Andrew Stenzel

JD #1

20-17s-23w Ness,KS

Start Date:	2014.03.08 @	22:24:00	
End Date:	2014.03.09 @	04:50:24	
Job Ticket #:	56313	DST #:	1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.03.16 @ 12:26:06

	RILOBITE	Palomino Petroleum In			20	176-2314	Ness,KS		
面	ESTING , INC.						10000,110		
ØB		4924 SE 84th St. New ton KS 67114			JD	#1			
					Job	Ticket: 56	5313	DST#:1	
NON.		ATTN: Andrew Sten	zel		Tes	t Start: 20	014.03.08 @	22:24:00	
GENERAL I	NFORMATION:								
Formation:	Cherokee								
Deviated: Time Tool Oper	No Whipstock:	ft (KB)					Conventiona Will MacLea	al Bottom Ho	e (Initial)
Time Test Ende							72	(11	
nterval:	4328.00 ft (KB) To 43	83.00 ft (KB) (TVD)			Ref	erence Ele	evations:	2382.00	ft (KB)
Total Depth:	4383.00 ft (KB) (TV							2377.00	. ,
Hole Diameter:	7.88 inchesHole	Condition: Good				KB t	to GR/CF:	5.00	ft
Serial #: 86								TAPMA PER	
Press@RunDe	epth: 35.49 psig (2014.03.08			2014 02 02	Capacity Last Cali			8000.00	psig
Start Date: Start Time:	2014.03.08 22:24:00	End Date: End Time:		2014.03.09 04:50:24	Last Call Time On		2014 03 09	2014.03.09 @ 00:29:10	
- and thing.	£2.27.00	and for thirdy.		01.00.24	Time Off			@ 02:35:10 @ 02:35:10	
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				T	PI	RESSUF	RE SUMM	IARY	
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2000 1750 229 400 229 40 40 40 40 40 40 40 40 40 40	рукителис	Volume (bl n 0.07 oil 0.02	- 150 - 50 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	(Min.) 0 1 32 62 63 93 126	Pressure (psig) 2171.43 19.82 27.40 911.89 30.45 35.49 694.44	Temp (deg F) 109.14 108.26 109.34 110.85 110.49 111.69 113.01 113.49 Ga	Annotatii Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	on ro-static Flow (1) In(1) Flow (2) In(2) ro-static	as Rate (Mct/

	DRILL STEM TES	ST REPO	ORT		
	Palomino Petroleum Inc		20-17s-23	w Ness,KS	
ESTING			JD #1		
	New ton KS 67114		Job Ticket:	56313	DST#:1
NOK .	ATTN: Andrew Stenzel		Test Start:	2014.03.08 @ 22	:24:00
GENERAL INFORMATION:					
Formation: Cherokee Deviated: No Whips Time Tool Opened: 00:29:25 Time Test Ended: 04:50:24	tock: ft (KB)		Test Type: Tester: Unit No:	Conventional Bo Will MacLean 72	ottom Hole (Initial)
Total Depth: 4383.00 ft (o 4383.00 ft (KB) (TVD) (B) (TVD) esHole Condition: Good		Reference I		2382.00 ft (KB) 2377.00 ft (CF) 5.00 ft
	psig @ 4330.00 ft (KB) 03.08 End Date: 24:05 End Time:	2014.03.09 04:51:59	Capacity: Last Calib.: Time On Btm: Time Off Btm: :50 w ith daylight sa	201	8000.00 psig 14.03.09
FSI- No E	Weak Surface Blow		PRESSI	JRE SUMMAR	łY
223 200 1750 100 100 100 100 100 100 100 1		Time (Min.)	Pressure Temp (psig) (deg F		
Rec	very		I G	Gas Rates	
Length (ft) Descri			Chok	e (inches) Pressure (osig) Gas Rate (Mcf/d)
15.00 GOCM 3%g 9%d				<u> </u>	
5.00 GMCO 3%g 32%					
5.00 100%oil	0.02				

Trilobite Testing, Inc

Printed: 2014.03.16 @ 12:26:06

MAN 1	RILOI			o Petroleur	n Inc			20-	-17s-23w N	less,KS)	
日期	EST	ting , inc	4924 SI	E 84th St.				JD	#1			
121			1	KS 67114					Ticket: 5631	3	DST#:1	
			ATTN:	Andrew S	Stenzel				t Start: 2014			
Tool Informatio	n											
Drill Pipe:	Length:	4203.00 ft	Diameter:	3.80	inches Vo	lume:	58.96 bbl		Tool Weight:		2000.00 lb	
Heavy Wt. Pipe:			Diameter:		inches Vo	lume:	0.00 bbl		-	n Packer:	28000.00 lb	
Drill Collar:	Length:	122.00 ft	Diameter:	2.25	inches Vo	lume:	0.60 bbl		-		24000.00 lb	
	(D.	04.00.7			Total Vo	lume:	59.56 bbl		Tool Chased		ft	
Drill Pipe Above K Depth to Top Doal		24.00 ft							String Weigh	t: Initial	58000.00 lb	
Depth to Top Pacl Depth to Bottom F		4328.00 ft ft								Final	58000.00 lb	
Interval between												
Tool Length:		82.00 ft										
Number of Packer	rs:	2	Diameter:	6.75	inches							
Tool Comments:												
	on	Le	nath (ft)	Serial No	. Positi	ion D	Denth (ft)	Accum	. Lenaths			
Tool Descriptio		Le	ngth (ft) 1.00	Serial No	o. Positi		Depth (ft) 4302.00	Accum	. Lengths			
Tool Comments: Tool Descriptio Change Over Sub Shut In Tool		Le		Serial Nc	o. Positi		Depth (ft) 4302.00 4307.00	Accum	. Lengths			
Tool Descriptio Change Over Sub Shut In Tool		Le	1.00	Serial No	o. Positi	<u></u>	4302.00	Accum	. Lengths			
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool		Le	1.00 5.00	Serial No	o. Positi		4302.00 4307.00	Accum	. Lengths			
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars		Le	1.00 5.00 5.00	Serial No	o. Positi		4302.00 4307.00 4312.00	Accum	. Lengths			
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint		Le	1.00 5.00 5.00 5.00	Serial No	o. Positi		4302.00 4307.00 4312.00 4317.00	Accum	. Lengths 27.00		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer		Le	1.00 5.00 5.00 5.00 2.00	Serial No	o. Positi		4302.00 4307.00 4312.00 4317.00 4319.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer		Le	1.00 5.00 5.00 5.00 2.00 5.00	Serial No	o. Positi		4302.00 4307.00 4312.00 4317.00 4319.00 4324.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio		Le	1.00 5.00 5.00 2.00 5.00 5.00 4.00 1.00	Serial No	o. Positi		4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb		Le	1.00 5.00 5.00 2.00 5.00 4.00 1.00	Serial No 8355			4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4328.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations		Le	1.00 5.00 5.00 2.00 5.00 5.00 4.00 1.00		5 Outs	side	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4330.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder		Le	1.00 5.00 5.00 2.00 5.00 4.00 1.00 1.00 0.00	8355	5 Outs	side	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4330.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder)	Le	1.00 5.00 5.00 2.00 5.00 4.00 1.00 1.00 0.00	8355	5 Outs	side	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4328.00 4329.00 4330.00 4330.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool -lydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Perforations Change Over Sub)	Le	1.00 5.00 5.00 2.00 5.00 4.00 1.00 1.00 0.00 0.00 15.00	8355	5 Outs	side	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4329.00 4330.00 4330.00 4330.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Perforations)	Le	1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 15.00 1.00	8355	5 Outs	side	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4329.00 4330.00 4330.00 4330.00 4345.00	Accum	-		Bottom Of Top	Packe
Tool Descriptio Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Perforations Change Over Sub Drill Pipe)	Le	1.00 5.00 5.00 2.00 5.00 4.00 1.00 1.00 0.00 15.00 1.00 31.00	8355	5 Outs	side	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4330.00 4330.00 4330.00 4345.00 4346.00 4377.00	Accum	-		Bottom Of Top	

11 X N		DRI	LL STEM TEST REPORT	Γ	FLI	JID SUMMARY
	RILOBITE	Palomir	o Petroleum Inc	20-17s-23	w Ness,KS	
	ESTING , INC		E 84th St. n KS 67114	JD #1		o r # 4
		A TTNI	Andrew Stenzel	Job Ticket:	2014.03.08 @ 22:24	ST#:1
and the state of t		A I III.		Test Start.	2014.03.08 @ 22.24	
Mud and C	ushion Information					
••	Gel Chem		Cushion Type:		Oil API:	36 deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt		Cushion Volume:	bbl		
Water Loss:	6.36 in ³		Gas Cushion Type:			
Resistivity:	ohm.m		Gas Cushion Pressure:	psig		
Salinity:	5900.00 ppm					
Filter Cake:	1.00 inches					
Recovery I	nformation					
			Recovery Table			
	Lengt ft	h	Description	Volume bbl		
		15.00	GOCM 3%g 9%oil 88%m	0.07	7.4	
		5.00	GMCO 3%g 32%m 65%oil	0.07		
	<u></u>	5.00	100%oil	0.02		
	l			0.02	-51	
	Total Length:	25.	00 ft Total Volume: 0.124 bbl			
	Num Fluid Samp	les: 0	Num Gas Bombs: 0	Serial	#:	
	Laboratory Nam		Laboratory Location:			
	 Recovery Comn 	nents:AF	Plis 34 @ 40f = 36			

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DRILL STEM TEST REPORT

Prepared For:

Palomino Petroleum Inc

4924 SE 84th St. Newton KS 67114

ATTN: Andrew Stenzel

- JD #1

20-17s-23w Ness,KS

Start Date:	2014.03.09 @	13:16:00	
End Date:	2014.03.09 @	19:37:24	
Job Ticket #	56314	DST #:	2

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.03.16 @ 12:25:39

🖉 🔏 🕻 RILOBITE 🛛 🗕	DRILL STEM TES						
	Palomino Petroleum Inc		20-1	/s-23w	Ness,KS		
	4924 SE 84th St.		JD #	#1			
	New ton KS 67114		Job T	Ticket: 56	314	DST#: 2	!
	ATTN: Andrew Stenzel		Test	Start: 20	14.03.09 @	13:16:00	
GENERAL INFORMATION:	алууцинан татанан алан татан татан т						
Formation:CherokeeDeviated:NoWhipstock:Time Tool Opened:15:12:55Time Test Ended:19:37:24	ft (KB)		Test Teste Unit I	er: V	Conventiona Will MacLear 72	l Bottom Hol า	e (Reset)
Interval: 4328.00 ft (KB) To 4405	5.00 ft (KB) (TVD)		Refe	rence Ele	vations:	2382.00	ft (KB)
Total Depth: 4405.00 ft (KB) (TVD						2377.00	ft (CF)
Hole Diameter: 7.88 inches Hole C	Condition: Good			KB to	o GR/CF:	5.00	ft
Serial #: 8674 Inside							
Press@RunDepth: 84.40 psig @		0044.05.55	Capacity:			8000.00	psig
Start Date: 2014.03.09 Start Time: 13:16:00	End Date: End Time:	2014.03.09 19:37:24	Last Calib Time On E			2014.03.09	
Start Time: 13:16:00	Enu nime:	19:37:24	Time On E		2014.03.09 (2014.03.09 (-	
	8074 Temperature	Time (Min.)	Pressure (psig)	Temp (deg F)	E SUMM. Annotatic		
E					Annotatio	n	
200		0	2162.17		Initial Hydro	o-static	
1720	120 - 120	1	23.66		Open To F	low (1)	
#300 A	- 26	31	74.71		Shut-In(1)	-(1)	
	50	62 63	1225.10 74.33		End Shut-li Open To F		
	- 25	93	84.40		Shut-In(2)	10 W (2)	
		125	1171.26		End Shut-l	n(2)	
730 500 200 200 200 200 200 200 20	75 76 76 76 76 76 76 76 76 76 76 76 76 76	126	2070.77	111.45	Final Hydro	o-static	
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)	v		Choke (i	nches) Pressu	re (psig) Ga	as Rate (Mcf/d
62.00 WGOCM 3%w 5%g 10%							
62.00 GOCM 2%g 16%oil 82%n							
10.00 GOCM 4%g 35%oil 61%n							
30.00 GMCO 2%g 3%m 95%oil	0.42						
		1					
0.00 22' of GIP	0.00						
0.00 22' of GIP * Recovery from multiple tests	0.00						

NTT N	RILOBITE	Palomino Pe	etroleum Inc			20-	17s-23m	/Ness,K	S
	ESTING , INC	4924 SE 84	th St			JD	#1		
		New ton KS					Ticket: 5	6314	DST#: 2
		ΔΤΤΝ: Δη	drew Stenzel						@ 13:16:00
.užæt].									
	- INFORMATION:								
Formation: Deviated:	Cherokee No Whipstock:	ft	t (KB)			Test	t Type:	Conventior	al Bottom Hole (Reset
	pened: 15:12:55		(((2))			Test		Will MacLe	
Time Test En	nded: 19:37:24					Unit	No:	72	
Interval:	4328.00 ft (KB) To 44	05.00 ft (KB)	(TVD)			Refe	erence El	evations:	2382.00 ft (KB)
Total Depth:									2377.00 ft (CF)
Hole Diamete	er: 7.88 inchesHole	e Condition: G	Good				KB	to GR/CF:	5.00 ft
Serial #:									
Press@Run[-	0 ft (KB)			Capacity:			8000.00 psig
Start Date:	2014.03.09	End Da		2	2014.03.09	Last Calib			2014.03.09
Start Time:	13:16:05	End Ti	me:		19:38:44	Time On I Time Off			
	FSI- No Blow								
		e Blow Built to	o 3"						
	FSI- No Blow	ime -							
225	FSI- No Blow			115	Time (Min.)	PF Pressure (psig)	Temp	Annota	
220	FSI- No Blow	ime -		- 115 - 110 - 105		Pressure		Annota	
-	FSI- No Blow	ime -		- 110		Pressure	Temp	Annota	
2000	FSI- No Blow	ime -		- 110 ~ 105		Pressure	Temp	Annota	
2333 1753 1550	FSI- No Blow	ime -		- 110 - 105 - 100		Pressure	Temp	Annota	
1733	FSI- No Blow	ime -		- 110 - 125 - 120 - 55 - 56 - 55 - 75 - 75 - 75		Pressure	Temp	Annota	
1733 1753 1227 1000 1000 1000 1000 1000 1000 1000	FSI- No Blow	ime -		- 110 - 125 - 120 - 55 - 55 - 55 - 55 - 55 - 55 - 55 - 5		Pressure	Temp	Annota	
1733	FSI- No Blow	ime -		- 110 - 125 - 120 - 55 - 50 - 55 - 55 - 55 - 75		Pressure	Temp	Annota	
1733 1753 1227 1000 1000 1000 1000 1000 1000 1000	FSI- No Blow	ime -		- 110 - 125 - 120 - 55 - 55 - 55 - 55 - 55 - 55 - 55 - 5		Pressure	Temp	Annota	
2000 1793 1900 1900 1900 1900 1900 1900 1900 19	FSI- No Blow	ime -		- 110 - 125 - 120 - 55 - 55 - 55 - 55 - 55 - 55 - 75 - 75		Pressure	Temp	Annota	
2000 1720 1720 1720 1220 1000 1220 100 1000 1	FSI- No Blow	ime -		- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp	Annota	
2000 1720 1720 1720 1220 1000 1220 100 1000 1	FSI- No Blow			- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp	Annota	
2000 1720 1720 1720 1220 1000 1220 100 1000 1	FSI- No Blow Pressure vs. Tr RECEIPERATE TIME Plans			- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp (deg F)	Annota As Rates	tion
2000 1723 1725	FSI- No Blow Pressure vs. To RECOVERY Josef Tree (Hans)	SINC SUB Corporation of the second se	Volume (bbl)	- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp (deg F)	Annota As Rates	
2000 1729 1000 1229 1000 1229 1000 1229 1000 1229 1000 1229 1000 1229 1000 1229 1000 1229 1000 1229 1000 1229 1000 1229 1000 100 1000 1	FSI- No Blow Pressure vs. T	Sime SSS Fores SSS Fores Control SSS Fores SSS Fore	Volume (bbl) 0.30	- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp (deg F)	Annota As Rates	tion
2000 1773 1930 19 1	FSI- No Blow Pressure vs. T Pressure vs. T	fime 500 Foreso 500 Foreso	Volume (bbl) 0.30 0.32	- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp (deg F)	Annota As Rates	tion
2000 1773 1775	FSI- No Blow Pressure vs. Tr RECOVERY Description WGOCM 3%w 5%g 10 ¹⁰ GOCM 2%g 16%oil 829 GOCM 4%g 35%oil 619	Sime SUB Fores A A A A A A A A A A A A A	Volume (bbl) 0.30 0.32 0.14	- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp (deg F)	Annota As Rates	tion
2000 1773 1774 1775	FSI- No Blow Pressure vs. T Pressure vs. T	Sime SUB Fores A A A A A A A A A A A A A	Volume (bbl) 0.30 0.14 0.42	- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp (deg F)	Annota As Rates	tion
2000 1723 1725	FSI- No Blow Pressure vs. Tr RECOVERY Description WGOCM 3%w 5%g 10 ¹⁰ GOCM 2%g 16%oil 829 GOCM 4%g 35%oil 619	Sime SUB Foreso A A A A A A A A A A A A A A A A A A A	Volume (bbl) 0.30 0.32 0.14	- 110 - 125 - 120 - 150 - 150 - 16 - 16 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pressure	Temp (deg F)	Annota As Rates	tion

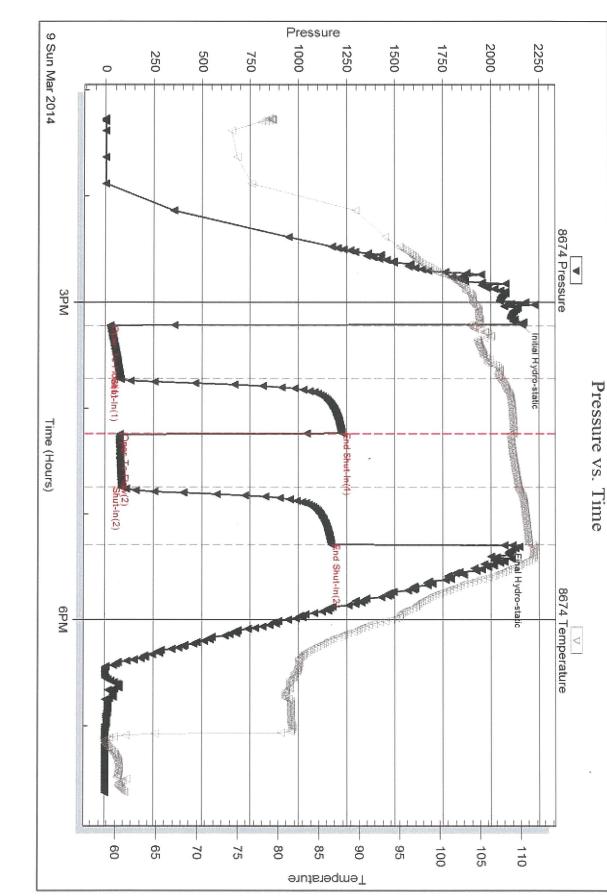
RILOB		Palomino	o Petroleum	Inc		20-17s-23w Ness,KS	3
EST	'ING , INC	4924 SF	E84th St.			JD #1	
			KS 67114			Job Ticket: 56314	DST#: 2
		ATTN:	Andrew St	enzel		Test Start: 2014.03.09 @	
Tool Information							
	4203.00 ft D	iamotor	2 90 1	nches Volume:	58.96 bbl	Tool Weight:	2000.00 lb
Drill Pipe: Length: Heavy Wt. Pipe: Length:	0.00 ft D			nches Volume:	0.00 bbl	*	
Drill Collar: Length:	122.00 ft D			nches Volume:	0.60 bbl	Ũ	
_				Total Volume:	59.56 bbl	_ 0	ft
Drill Pipe Above KB:	24.00 ft					String Weight: Initial	58000.00 lb
Depth to Top Packer:	4328.00 ft					Final	58000.00 lb
Depth to Bottom Packer:	ft 77.00 ft						
Interval betw een Packers: Tool Length:	104.00 ft						
Number of Packers:		iameter:	6.75 i	nches			
Tool Comments:	. D	arriotor.	0.701				
Tool Description Change Over Sub		th (ft) 1.00	Serial No.	Position	Depth (ft) 4302.00	Accum. Lengths	araan ahaa ahaa ahaa ahaa ahaa ahaa ahaa
-							
Shut In Tool		5.00 5.00			4307.00 4312.00		
⊣ydraulic tool Jars		5.00			4312.00		
		2.00					
Safety Joint Packer		5.00			4319.00 4324.00	27.00	Pottom Of Top Dooko
Packer		4.00			4324.00	27.00	Bottom Of Top Packer
Stubb		1.00			4329.00		
Recorder		0.00	8355	Outside	4329.00		
Recorder		D.00	8674	Inside	4329.00		
Perforations		7.00	0074	110100	4336.00		
Change Over Sub		1.00			4337.00		
Drill Pipe		2.00			4399.00		
Change Over Sub		1.00			4400.00	,	
Bullnose		5.00			4405.00	77.00 Bo	ottom Packers & Anchor
Total Tool	Length: 1	04.00					···· · · · · · · · · · · · · · · · · ·
Total Tool	Length: 1	104.00					

ATEN	RILOBI	TE	DRI	LL STEM TEST F	REPORT	-		FLUID	SUMMARY
問制	E	1	Palomir	no Petroleum Inc		20-17s-23w	Ness,KS		
翻	ESTII	VG , INC	4924 S	E 84th St.		JD #1			
			New to	n KS 67114		Job Ticket: 56	5314	DST#:	2
' NDA	k.		ATTN:	Andrew Stenzel		Test Start: 20	014.03.09 @	13:16:00	
Mud and	Cushion Infor	mation							
Mud Type:	Gel Chem			Cushion Type:			Oil API:		36 deg API
Mud Weight:		gal		Cushion Length:			Water Salinit	y:	ppm
Viscosity:	55.00 se	c/qt		Cushion Volume:		bbl			
Water Loss:	7.95 in ³			Gas Cushion Type:					
Resistivity:		m.m		Gas Cushion Pressure		psig			
Salinity:	6200.00 pp								
Filter Cake:	1.00 inc	nes							
Recovery	Information			Recovery Table					
	Γ	Lengt	h	Description		Volume]		
	_	ft				bbl			
			62.00	WGOCM 3%w 5%g 10%oil	82%m	0.305			
	_		62.00	GOCM 2%g 16%oil 82%m		0.323			
	_		10.00	GOCM 4%g 35%oil 61%m		0.140			
	-		30.00 0.00	GMCO 2%g 3%m 95%oil 22' of GIP		0.421			
	 Total	Length:		.00 ft Total Volume:	1.189 bbl	0.000	I		
						Carial #			
		Fluid Samp oratory Nam		Num Gas Bombs: Laboratory Locatio	0	Serial #:			
				Plis 36 @ 60f = 36					
				۰.					

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Ref. No: 56314





DST Test Number: 2

JD #1

Serial #: 8674

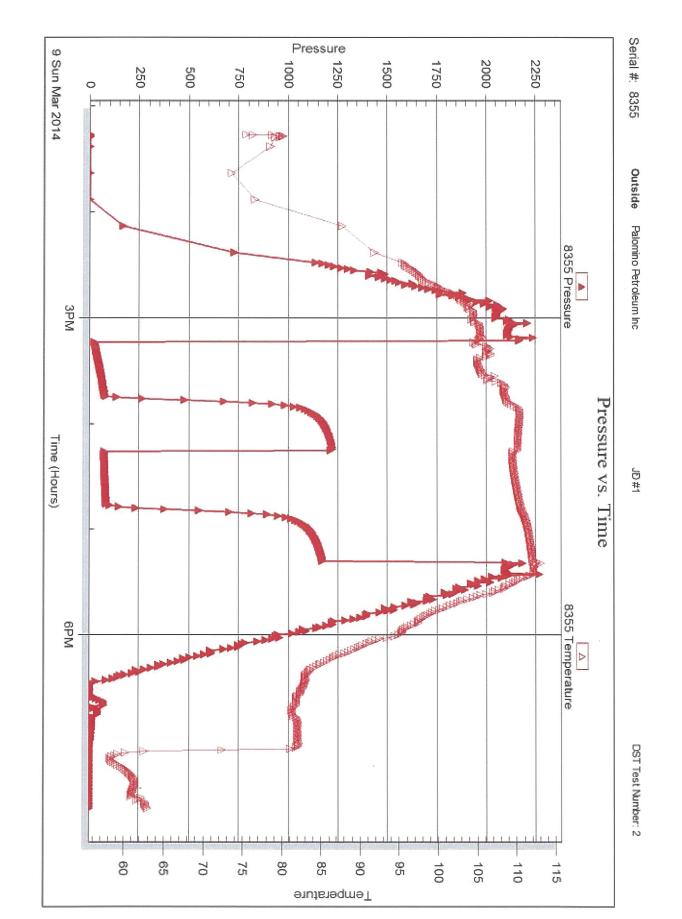
Inside

Palomino Petroleum Inc

Printed: 2014.03.16 @ 12:25:42

Ref. No: 56314

Triobite Testing, Inc





DRILL STEM TEST REPORT

Prepared For:

Palomino Petroleum Inc

4924 SE 84th St. Newton KS 67114

ATTN: Andrew Stenzel

JD #1

20-17s-23w Ness,KS

Start Date:	2014.03.10 @	02:48:00	
End Date:	2014.03.10 @	09:30:39	
Job Ticket #:	56315	DST #:	3

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

RILOBITE	Palomino Petroleum Inc		20-	17s-23w	Ness,K	S	
TESTING, INC					110 00,11		
	4924 SE 84th St. New ton KS 67114		JD				
				Ticket: 56		DST	
	ATTN: Andrew Stenzel		Test	t Start: 20	014.03.10	@ 02:48:00)
GENERAL INFORMATION:							
Formation: Cherokee Deviated: No Whipstock: Time Tool Opened: 04:48:40 Time Test Ended: 09:30:39	ft (KB)		Test Test Unit	ter: \	Conventio Will MacLe 72		Hole (Reset)
Interval: 4328.00 ft (KB) To 44 Total Depth: 4419.00 ft (KB) (Tv Hole Diameter: 7.88 inchesHole			Refe	erence Ele KB t	evations:	2377.	00 ft(KB) 00 ft(CF) 00 ft
		· ·					·······
Serial #: 8674 Inside Press@RunDepth: 92.99 psig 92.99 psig Start Date: 2014.03.10 Start Time: 02:48:00	 4331.00 ft (KB) End Date: End Time: 	2014.03.10 09:30:39	Capacity: Last Calit Time On I Time Off	o.: Btm: 2		8000.0 2014.03. 0 @ 04:48:: 0 @ 06:58:4	25
ISF No Blow							
ISF No Blow	e Blow Built to 2"		PF	RESSUE	RE SUM	MARY	
ISI- No Blow FF- Weak Surfac FSI- No Blow Pressure vs. Th 8074fresure	e Blow Built to 2"	Time	PF	RESS UF Temp	RE SUMI		
ISI- No Blow FF- Weak Surfac FSI- No Blow Pressure vs. Ti	e Blow Built to 2"	(Min.)	Pressure (psig)	Temp (deg F)	Annota	ition	
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. Ti	e Blow Built to 2"	(Min.)	Pressure	Temp (deg F) 105.79	Annota Initial Hyd	ition dro-static	
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. The Stream	e Blow Built to 2"	(Min.) 0 1	Pressure (psig) 2176.15	Temp (deg F) 105.79 104.84	Annota	tion dro-static Flow (1)	
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. Ti	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62	Pressure (psig) 2176.15 25.29 76.31 1210.62	Temp (deg F) 105.79 104.84 107.72 108.73	Annota Initial Hyd Open To Shut-In(1 End Shut	ition dro-static Flow (1) 1) t-ln(1)	
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. The Stream	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56	Temp (deg F) 105.79 104.84 107.72 108.73 108.14	Annota Initial Hyd Open To Shut-In(7 End Shut Open To	ttion Flow (1) 1) t-ln(1) Flow (2)	
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. The BOX Pressure vs	e Blow Built to 2"	(Min.) 0 1 32 62 63 93	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56 92.99	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79	Annota Initial Hyd Open To Shut-In(7 End Shut Open To Shut-In(2	tion Flow (1) 1) t-In(1) Flow (2) 2)	
FF- Weak Surfac FSI- No Blow Pressure vs. TS BOATHESSURE 200 773 200 773	e Blow Built to 2"	(Min.) 0 1 32 62 63 93	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79 111.12	Annota Initial Hyd Open To Shut-In(7 End Shut Open To	tion Flow (1) 1) t-In(1) Flow (2) 2) t-In(2)	
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. To 200 700 700 700 700 700 700 700 700 700	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62 63 93 130	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56 92.99 1178.84	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79 111.12	Annota Initial Hyd Open To Shut-In(1 Open To Shut-In(2 End Shut	tion Flow (1) 1) t-In(1) Flow (2) 2) t-In(2)	
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. To 200 700 700 700 700 700 700 700 700 700	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62 63 93 130	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56 92.99 1178.84	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79 111.12 111.63	Annota Initial Hyd Open To Shut-In(1 Open To Shut-In(2 End Shut	tion Flow (1) 1) t-In(1) Flow (2) 2) t-In(2)	
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. The second result of the second s	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62 63 93 130	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56 92.99 1178.84	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79 111.12 111.63	Annota Initial Hyd Open To Shut-In(7 End Shut Final Hyd s Rates	tion Flow (1) 1) t-In(1) Flow (2) 2) t-In(2)	Gas Rate (Mct/d)
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. The pressure vs. The	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62 63 93 130	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56 92.99 1178.84	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79 111.12 111.63	Annota Initial Hyd Open To Shut-In(7 End Shut Final Hyd s Rates	tion Flow (1) 1) t-ln(1) Flow (2) 2) t-ln(2) dro-static	Gas Rate (Mcl/d)
ISI- No Blow FF- Weak Surfac FSI- No Blow Pressure vs. The pressure vs. Th	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62 63 93 130	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56 92.99 1178.84	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79 111.12 111.63	Annota Initial Hyd Open To Shut-In(7 End Shut Final Hyd s Rates	tion Flow (1) 1) t-ln(1) Flow (2) 2) t-ln(2) dro-static	Gas Rate (Mct/d
ISH No Blow FF- Weak Surfac FSH No Blow Pressure vs. The pressure vs. The	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62 63 93 130	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56 92.99 1178.84	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79 111.12 111.63	Annota Initial Hyd Open To Shut-In(7 End Shut Final Hyd s Rates	tion Flow (1) 1) t-ln(1) Flow (2) 2) t-ln(2) dro-static	Gas Rate (Mcf/d
ISI- No Blow FF- Weak Surfac FSI- No Blow Pressure vs. The pressure vs. Th	e Blow Built to 2"	(Min.) (Min.) 0 1 32 62 63 93 130	Pressure (psig) 2176.15 25.29 76.31 1210.62 80.56 92.99 1178.84	Temp (deg F) 105.79 104.84 107.72 108.73 108.14 109.79 111.12 111.63	Annota Initial Hyd Open To Shut-In(7 End Shut Final Hyd s Rates	tion Flow (1) 1) t-ln(1) Flow (2) 2) t-ln(2) dro-static	Gas Rate (Mct/d)

Printed: 2014.03.16 @ 12:25:12

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	RILOBITE	Palomino Petroleum Inc			20-	17s-23w	/ Ness,KS	S	
国	ESTING , INC	4924 SE 84th St.			JD	44			
		4924 SE 84th St. New ton KS 67114				#I Ticket: 50	2215	DST#: 3	
utiletile.		ATTN: Andrew Stenzel			lest	Start: 20	014.03.10 (@ 02:48:00	
GENERAI	L INFORMATION:								
Formation: Deviated:	Cherokee				Tool	Tunor	Convention	al Pottom Hole (Decet
	No Whipstock: pened: 04:48:40	ft (KB)			Test		Will MacLea	nal Bottom Hole (an	Resei)
	nded: 09:30:39				Unit		72		
Interval:	4328.00 ft (KB) To 44	19.00 ft (KB) (TVD)			Refe	erence El	evations:	2382.00 ft	(KB)
Total Depth:								2377.00 ft	
Hole Diamete	er: 7.88 inchesHole	Condition: Good				KB	to GR/CF:	5.00 ft	
Serial #:									
Press@Run					Capacity			8000.00 ps	sig
Start Date: Start Time:	2014.03.10 02:48:05	End Date: End Time:		2014.03.10 09:31:59	Last Calit Time On I			2014.03.10	
	02.40.00	Did fille.		03.51.55	Time Off				
	FSF No Blow Pressure vs. T				PF	RESSUI		MARY	
	FSF No Blow Pressure vs. T	inc		Time					
2230	FSI- No Blow			Time (Min.)	PF Pressure (psig)	RESSUF Temp (deg F)	Annotat		
2220	FSF No Blow Pressure vs. T	inc	7		Pressure	Temp	Annotat		
	FSF No Blow Pressure vs. T	inc	111 111 111 111 111 111 111 111 111 11		Pressure	Temp	Annotat		
2000	FSF No Blow Pressure vs. T	inc			Pressure	Temp	Annotat		
2300	FSF No Blow Pressure vs. T	inc	1111 112 112 112 112 112 112 112 112 11		Pressure	Temp	Annotat		
1759	FSF No Blow Pressure vs. T	inc	11111111111111111111111111111111111111		Pressure	Temp	Annotat		
2000	FSF No Blow Pressure vs. T	inc	1111 112 112 112 112 112 112 112 112 11		Pressure	Temp	Annotat		
2000 1779 1759 1759 1759 1759 1759 1759 1759	FSF No Blow Pressure vs. T	inc	ernterberterberterberterberterberterberterberterberterberterberterberterberterberterberterberterberterberterber		Pressure	Temp	Annotat		
2000 1750 1250 720 720 720 720 720 720 720 720 720 72	FSF No Blow Pressure vs. T	inc	Tompereture 100 55 00 Tompereture		Pressure	Temp	Annotat		
2000 1779 1759 1759 1759 1759 1759 1759 1759	FSF No Blow Pressure vs. T	inc	Tennperatura 112 105 100 10 10 10 10 10 10 10 10 10 10 10 10		Pressure	Temp	Annotat		
2000 1750 1250 720 720 720 720 720 720 720 720 720 72	FSF No Blow Pressure vs. T	inc	Temperature 113 105 105 105 105 105 105 105 105 105 105		Pressure	Temp	Annotat		
2000 1750	FSI- No Blow	SITIC SUSS Verspondare	Temperature 113 105 105 105 105 105 105 105 105 105 105		Pressure	Temp (deg F)	Annotat		
2000 1750	FSI- No Blow	SITIC SUSS Verspondare	Temperature 113 105 105 105 105 105 105 105 105 105 105		Pressure	Temp (deg F)	Annotat as Rates	tion	ate (Mcf/
2000 1759 1250	FSI- No Blow Pressure vs. Ti BEOFRESSINE Control of the state of the s	SITICE SEE	Temperature 113 105 105 105 105 105 105 105 105 105 105		Pressure	Temp (deg F)	Annotat as Rates	tion	ate (Mcf/r
2000 1750	FSI- No Blow Pressure vs. Ti NOTResure OFF Free Proof Pressure vs. Ti Pressure vs. Ti Pressure vs. Ti NOTResure Pressure vs. Ti Pressure vs. Ti	ime soo temperare volume (bbl) m 0.30	Temperature 113 105 100 155 100 Temperature 55 100 155 100 156 100 100 100 100 100 100 100 100 100 10		Pressure	Temp (deg F)	Annotat as Rates	tion	ate (Mcf/
2000 1739 17 17 17 17 17 17 17 17 17 17 17 17 17 1	FSI- No Blow Pressure vs. Tr NOTIFICATION Pressure vs. Tr Pressure vs	ime 555 temperature Volume (bbl) m 0.30 m 0.32	Temperature 113 105 100 155 100 Temperature 55 100 155 100 156 100 100 100 100 100 100 100 100 100 10		Pressure	Temp (deg F)	Annotat as Rates	tion	ate (Mcf/
2000 1779	FSI- No Blow Pressure vs. Tr MODIFICATION Pressure vs. Tr	Imme Imme Imme 0.30 Imme 0.32 Imme 0.28	Temperature 113 105 100 155 100 Temperature 55 100 155 100 156 100 100 100 100 100 100 100 100 100 10		Pressure	Temp (deg F)	Annotat as Rates	tion	ate (Mcf/
2000 1772 1772 1772 1772 1772 1773 1774 1775	FSI- No Blow Pressure vs. Ta NOTResure Pressure vs. Ta Pressure vs. Ta	Imme Imme Imme 0.30 Imme 0.32 Imme 0.28	Temperature 113 105 100 155 100 Temperature 55 100 155 100 156 100 100 100 100 100 100 100 100 100 10		Pressure	Temp (deg F)	Annotat as Rates	tion	ate (Mcf/

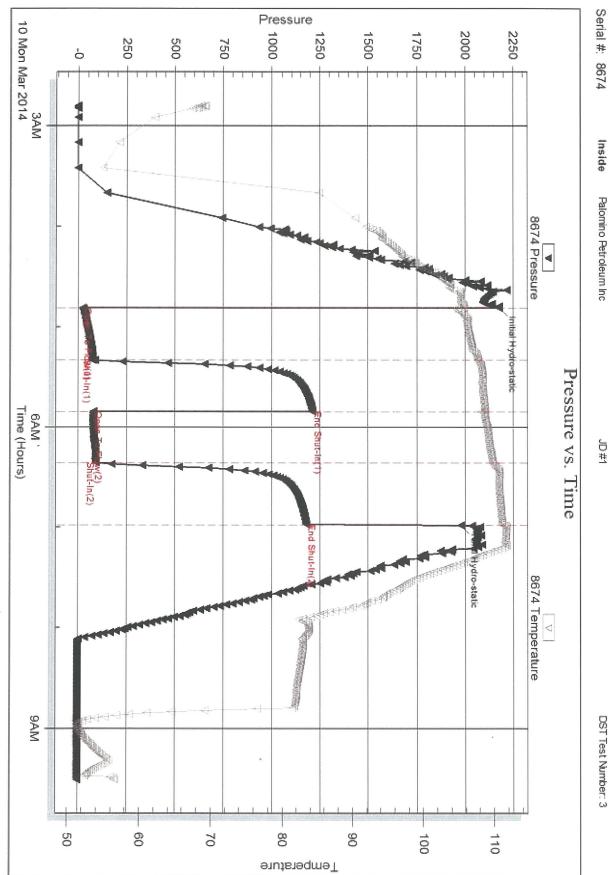
RILOBI	ITE +		Petroleun			REPOR	20-17s-23w Nes	ss KS	TOOL DIAGRA
TESTI	ING , INC	4924 SE					JD #1	33,110	
			84th St. KS 67114				Job Ticket: 56315		DST#: 3
		A						o 40 O	
		ATTN: /	Andrew S	stenzel			Test Start: 2014.03	3.10 @	02:48:00
Tool Information									
	4203.00 ft I			inches \		58.96 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe: Length:	0.00 ft 1			inches \		0.00 bbl	Weight set on F		
Drill Collar: Length:	122.00 ft	Diameter:	2.25	inches \		0.60 bbl	Weight to Pull L	oose:	
Drill Pipe Above KB:	24.00 ft			Total	Volume:	59.56 bbl	Tool Chased	i	ft
	4328.00 ft						String Weight: I	Final	58000.00 lb 58000.00 lb
Depth to Bottom Packer:	ft						I	i ii iai	30000.00 lb
Interval betw een Packers:	91.00 ft								
Tool Length:	118.00 ft								
Number of Packers:	2 [Diameter:	6.75	inches					
Tool Comments:									
Tool Description	Len	gth (ft)	Serial No	o. Pos	ition		ccum. Lengths		
Change Over Sub	Len	1.00	Serial No	o. Pos	ition	4302.00	Accum. Lengths		
Change Over Sub Shut In Tool	Len	1.00 5.00	Serial No	o. Pos	ition	4302.00 4307.00	ccum. Lengths		
Change Over Sub Shut In Tool Hydraulic tool	Len	1.00 5.00 5.00	Serial No	o. Pos	ition	4302.00 4307.00 4312.00	ccum. Lengths		
Change Over Sub Shut In Tool Hydraulic tool Jars	Len	1.00 5.00 5.00 5.00	Serial No	. Pos	ition	4302.00 4307.00 4312.00 4317.00	ccum. Lengths		
Change Over Sub Shut In Tool Hydraulic tool	Len	1.00 5.00 5.00	Serial No	. Pos	ition	4302.00 4307.00 4312.00	accum. Lengths		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint	Len	1.00 5.00 5.00 5.00 2.00	Serial No	. Pos	ition	4302.00 4307.00 4312.00 4317.00 4319.00			Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer	Len	1.00 5.00 5.00 5.00 2.00 5.00	Serial No	. Pos	ition	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00			Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer		1.00 5.00 5.00 2.00 5.00 4.00	Serial No	. Pos	ition	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00			Bottom Of Top Packe
Change Over Sub 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	Serial No		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00			Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations		1.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00				4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4331.00			Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder		1.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00	8355		utside	4302.00 4307.00 4312.00 4319.00 4319.00 4324.00 4328.00 4329.00 4331.00			Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder	1	1.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4328.00 4329.00 4331.00 4331.00			Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Perforations	1	1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00 52.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4329.00 4331.00 4331.00 4331.00			Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Perforations Change Over Sub	1	1.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4329.00 4329.00 4331.00 4331.00 4331.00 4350.00 4350.00			Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Perforations Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub	1	1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00 52.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4331.00 4331.00 4331.00 4350.00 4351.00 4413.00		Bot	Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Perforations Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub	1	1.00 5.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 1.00 5.00 1.00 5.00 1.00 1.00 62.00 1.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4331.00 4331.00 4331.00 4351.00 4413.00 4414.00	27.00	Bot	
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	1	1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00 52.00 1.00 52.00 1.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4331.00 4331.00 4331.00 4351.00 4413.00 4414.00	27.00	Bot	
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	1	1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00 52.00 1.00 52.00 1.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4331.00 4331.00 4331.00 4351.00 4413.00 4414.00	27.00	Bot	
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	1	1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00 52.00 1.00 52.00 1.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4331.00 4331.00 4331.00 4351.00 4413.00 4414.00	27.00	Bot	
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	1	1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00 52.00 1.00 52.00 1.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4331.00 4331.00 4331.00 4351.00 4413.00 4414.00	27.00	Bot	
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Bullnose	1	1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 0.00 0.00 19.00 1.00 52.00 1.00 52.00 1.00	8355		utside	4302.00 4307.00 4312.00 4317.00 4319.00 4324.00 4328.00 4329.00 4331.00 4331.00 4331.00 4351.00 4413.00 4414.00	27.00	Bot	

	RILOBITE		ILL STEM TEST REPOR			JID SUMMAR
識	ESTING , I		ino Petroleum Inc	20-17s-23	w Ness,KS	
	 E011NG, I		SE 84th St. on KS 67114	JD #1 Job Ticket:	56315	ST#: 3
		ATTN:	Andrew Stenzel		2014.03.10 @ 02:48	
lud and Cu	shion Informatio	n				
ud Type: Ge	el Chem		Cushion Type:		Oil API:	35 deg API
ud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
iscosity:	55.00 sec/qt		Cushion Volume:	bbl	,	P. P
ater Loss:	7.95 in ³		Gas Cushion Type:			
esistivity:	ohm.m		Gas Cushion Pressure:	psig		
alinity: Iter Cake:	6200.00 ppm 1.00 inches					
ecovery In						
,			Recovery Table		_	
	L	ength ft	Description	Volume bbl		
		62.00	GOCM 2%g 5%oil 93%m	0.30	5	
		62.00	GOCM 4%g 7%oil 89%m	0.32	3	
		20.00	GOCM 3%g 22%oil 75%m	0.28		
		40.00	GMCO 6%g 14%m 80%oil	0.56		
		0.00	62' of Weak GIP	0.00	0	
	Total Length		1.00 ft Total Volume: 1.470 bl		0	
	Total Length Num Fluid S	n: 184				
		a: 184 amples: 0	i.00 ft Total Volume: 1.470 bl	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location:	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location: Pl is 34 @ 50f = 35	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location: Pl is 34 @ 50f = 35	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location: Pl is 34 @ 50f = 35	bl		
	Num Fluid S Laboratory	n: 184 amples: 0 Name:	4.00 ft Total Volume: 1.470 bl Num Gas Bombs: 0 Laboratory Location: Pl is 34 @ 50f = 35	bl		

Printed: 2014.03.16 @ 12:25:14

Ref. No: 56315





JD #1

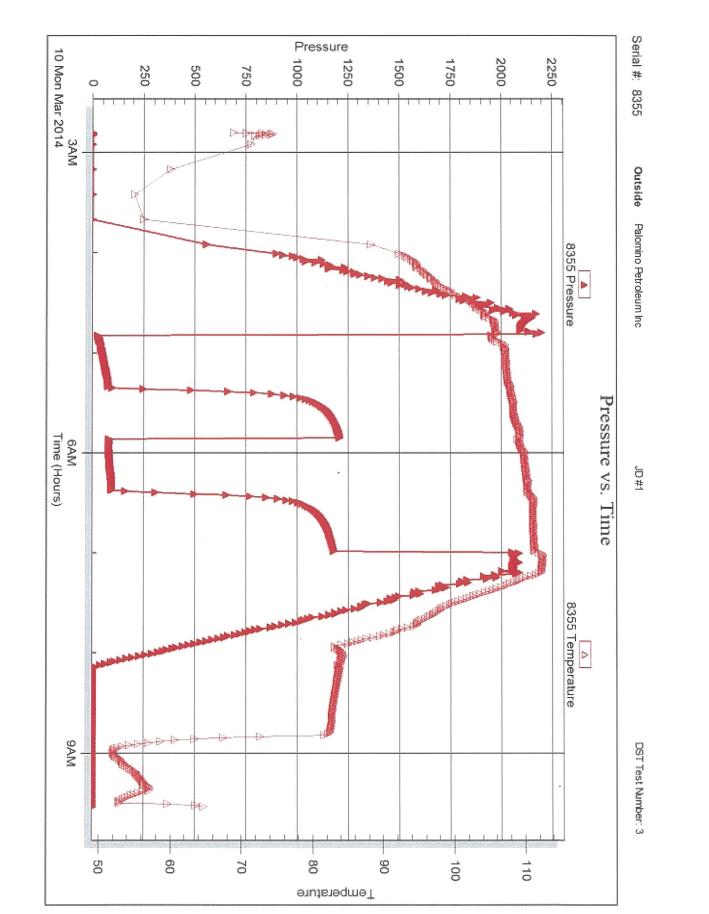
DST Test Number: 3



56315

Triobite Testing, Inc







DRILL STEM TEST REPORT

Prepared For:

Palomino Petroleum Inc

4924 SE 84th St. Newton KS 67114

ATTN: Andrew Stenzel

JD #1

20-17s-23w Ness,KS

Start Date:	2014.03.10 @	22:44:00	
End Date:	2014.03.11 @	05:03:39	
Job Ticket #:	56316	DST #:	4

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.03.16 @ 12:24:45

RILOBITE	Palomino Petroleum Inc		20-	17s-23w	Ness,KS		
ESTING , INC							
	4924 SE 84th St. New ton KS 67114		JD				
				Ticket: 56		DST#:4	
	ATTN: Andrew Stenzel		Test	t Start: 20)14.03.10 @) 22:44:00	
GENERAL INFORMATION:							
Formation: Mississippi			Τ	• T	O	d Otra dalla (f	
Deviated: No Whipstock: Time Tool Opened: 00:44:25 Time Test Ended: 05:03:39	ft (KB)		Test Test Unit	ter:	Will MacLear 72	al Straddle (F n	(eset)
Interval: 4416.00 ft (KB) To 44	32.00 ft (KB) (TVD)		Refe	erence Ele	evations:	2382.00	ft (KB)
Total Depth: 4530.00 ft (KB) (Tv	-					2377.00	
Hole Diameter: 7.88 inches Hole	Condition: Good			KB t	to GR/CF:	5.00	ft
Serial #: 8674 Inside							
Press@RunDepth: 89.15 psig (Start Date: 2014.03.10	@ 4419.00 ft (KB) End Date:	2014.03.11	Capacity: Last Calit			8000.00 2014.03.11	psig
Start Time: 2014.03.10	End Time:	05:03:39	Time On I		2014.03.11		
			Time Off		2014.03.11	-	
FSI- No Blow Pressure vs. 17			PF	RESSUF	RE SUMM	ARY	
FSI- No Blow							
Pressure vs. Ti			PF	RESSUF	RE SUMM	ARY	
	SUV4 Tempendare	Time (Min.)	Pressure	Temp	RE SUMM		
Pressure vs. Ti	554 Torpostare	Time (Min.) 0		Temp (deg F)		on	
Pressure vs. Tr	SUV4 Tempendare	(Min.) 0 1	Pressure (psig) 2282.80 19.58	Temp (deg F) 113.41 112.61	Annotatio Initial Hydro Open To F	on o-static	
200 Pressure vs. 75	554 Torpostare	(Min.) 0 1 32	Pressure (psig) 2282.80 19.58 68.07	Temp (deg F) 113.41 112.61 119.03	Annotatio Initial Hydro Open To F Shut-In(1)	on o-static low (1)	
2000	504 Temperature 504 Temperature 505 Te	(Min.) 0 1	Pressure (psig) 2282.80 19.58 68.07 1287.35	Temp (deg F) 113.41 112.61 119.03 119.78	Annotation Initial Hydro Open To F Shut-In(1) End Shut-I	o-static low (1) n(1)	
200 Pressure vs. 75	BCY Tompositive 100 100 100 100 100 100 100 10	(Min.) 0 1 32 63	Pressure (psig) 2282.80 19.58 68.07	Temp (deg F) 113.41 112.61 119.03 119.78 118.98	Annotatio Initial Hydro Open To F Shut-In(1)	o-static low (1) n(1)	
2000	BC Tomportane	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19	Annotatic Initial Hydro Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
200 Pressure vs. 75	BCY Tompositive 100 100 100 100 100 100 100 10	(Min.) 0 1 32 63 63 94	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88	Annotatic Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
200 Pressure vs. 75	BC Tomportane	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19	Annotatic Initial Hydro Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
Pressure vs. 75	BC Tomportane	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19	Annotatic Initial Hydro Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
Pressure vs. 75	Troperstore	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19	Annotatic Initial Hydro Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
Pressure vs. 75	Troperstore	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19	Annotatic Initial Hydro Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
Pressure vs. 17	BOT Temperature 10 10 10 10 10 10 10 10 10 10	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19 122.57	Annotatic Initial Hydro Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
Pressure vs. 17	BOT Temperature 10 10 10 10 10 10 10 10 10 10	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19 122.57	Annotatic Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static	s Raje (Mcf/c
Pressure vs. 15 200 200 200 200 200 200 200 20	Service Temporature	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19 122.57	Annotatic Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static	s Raţe (Mct/c
Pressure vs. 13 Pressure vs. 13 Pressu	Volume (bbl) 10 10 10 10 10 10 10 10 10 10	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19 122.57	Annotatic Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static	s Rațe (Mct/c
Pressure vs. 13 200 200 200 200 200 200 200 20	Volume (bbl) 10 10 10 10 10 10 10 10 10 10	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19 122.57	Annotatic Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static	s Rațe (Mcf/c
Pressure vs. 13 Pressure vs. 13 Pressu	Volume (bbl) h a Skim of Oil 00.15 h a Few Oil Spor0.30	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19 122.57	Annotatic Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static	s Rațe (Mcf/c
Pressure vs. 13 Pressure vs. 13 Pressu	Volume (bbl) h a Skim of Oil 00.15 h a Few Oil Spor0.30	(Min.) 0 1 32 63 63 94 126	Pressure (psig) 2282.80 19.58 68.07 1287.35 70.43 89.15 1261.56	Temp (deg F) 113.41 112.61 119.03 119.78 118.98 121.88 122.19 122.57	Annotatic Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static	s Rațe (Mct/c

	Palomino Petroleum Inc		20-17s-	23w Ness,K	S	
ESTING , INC	4924 SE 84th St. New ton KS 67114		JD #1	et: 56316	DST#:4	
	ATTN: Andrew Stenzel			t: 2014.03.10 (
GENERAL INFORMATION:	↓					
Formation:MississippiDeviated:NoWhipstock:Time Tool Opened:00:44:25Time Test Ended:05:03:39	ft (KB)		Test Typ Tester: Unit No:	e: Conventior Will MacLe 72	nal Straddle (F an	eset)
Interval:4416.00 ft (KB) To4Total Depth:4530.00 ft (KB) (THole Diameter:7.88 inchesHo			Referenc	e Elevations: KB to GR/CF:	2382.00 2377.00 5.00	ft (CF)
Serial #: 8355OutsidePress@RunDepth:psigStart Date:2014.03.10Start Time:22:44:05	 @ 4419.00 ft (KB) End Date: End Time: 	2014.03.11 05:05:14	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 2014.03.11	psig
TEST COMMENT: IF- Weak Surfac ISI- No Blow FF- Weak Surfa	ce Blow Built to 1" ce Blow Built to 23/4"					
FSI- No Blow						
FSI- No Blow Pressure vs.	8305 Temperature	Time	Pressure Te	• •		
Pressure vs.		o (Min.)	Pressure Te			
Pressure vs.		o (Min.)	Pressure Te	mp Annota		
Pressure vs.		o (Min.)	Pressure Te (psig) (de	g F) Gas Rates	tion	s Rate (Mcf/d
Pressure vs.	AND TOTPOTATE	o (Min.)	Pressure Te (psig) (de	g F) Gas Rates	tion	s Rate (Mcf/c
Pressure 200 170	NOT TOTALAS	o (Min.)	Pressure Te (psig) (de	g F) Gas Rates	tion	s Rate (Mcf/c
Pressure vs.	AND TOTPOTATE	o (Min.)	Pressure Te (psig) (de	g F) Gas Rates	tion	s Rate (Mcf/c
Pressure 200 100 100 100 100 100 100 100	NOT TOTALAS	o (Min.)	Pressure Te (psig) (de	g F) Gas Rates	tion	s Rate (Mct)

RILOBITE	Palomino Petroleum Inc		20-176 22	w Ness,KS	<u>.</u>
TESTING, IN	1			W NC33,110	,
	4924 SE 84th St. New ton KS 67114		JD #1		
	New ton N3 07 114		Job Ticket:	56316	DST#:4
	ATTN: Andrew Stenzel		Test Start:	2014.03.10 @	22:44:00
GENERAL INFORMATION:					
Formation: Mississippi Deviated: No Whipstock Time Tool Opened: 00:44:25	ft (KB)		Test Type: Tester:	Will MacLea	al Straddle (Reset) an
Time Test Ended: 05:03:39			Unit No:	72	
	4432.00 ft (KB) (TVD)		Reference	Elevations:	2382.00 ft (KB)
Total Depth: 4530.00 ft (KB)					2377.00 ft (CF)
Hole Diameter: 7.88 inchesH	ole Condition: Good		Ki	B to GR/CF:	5.00 ft
Serial #: 8672 Below (Str. Press@RunDepth: psig			Conceiture		8000 00
Start Date: 2014.03.1	g @ 4433.00 ft (KB) D End Date:	2014.03.11	Capacity: Last Calib.:		8000.00 psig 2014.03.11
Start Time: 22:44:0		05:04:59	Time On Btm: Time Off Btm:		2011.00.11
FSI- No Blow					
Pressure v				JRE SUMM	
			PRESSI Pressure Temp (psig) (deg F	Annotat	
Pressure vi automatical and a second	DIZ temperature DIZ temperature diversion of the second	(Min.)	Pressure Temp (psig) (deg F	Annotat	
Pressure vi DDPresure	DIZ temperature DIZ te	(Min.)	Pressure Temp (psig) (deg F	Annotat	
Pressure vi Difference vi Differen	NCZ Temporare NCZ Temporare 10 10 10 10 10 10 10 10 10 10	(Min.)	Pressure Temp (psig) (deg F	Annotat	ion
Pressure vi 200 200 200 200 200 200 200 20	NCZ Temporare NCZ Temporare 10 10 10 10 10 10 10 10 10 10	(Min.)	Pressure Temp (psig) (deg F	Annotat	ion
Pressure vi 200 200 200 200 200 200 200 20	vith a Skim of Oil 00.15	(Min.)	Pressure Temp (psig) (deg F	Annotat	ion

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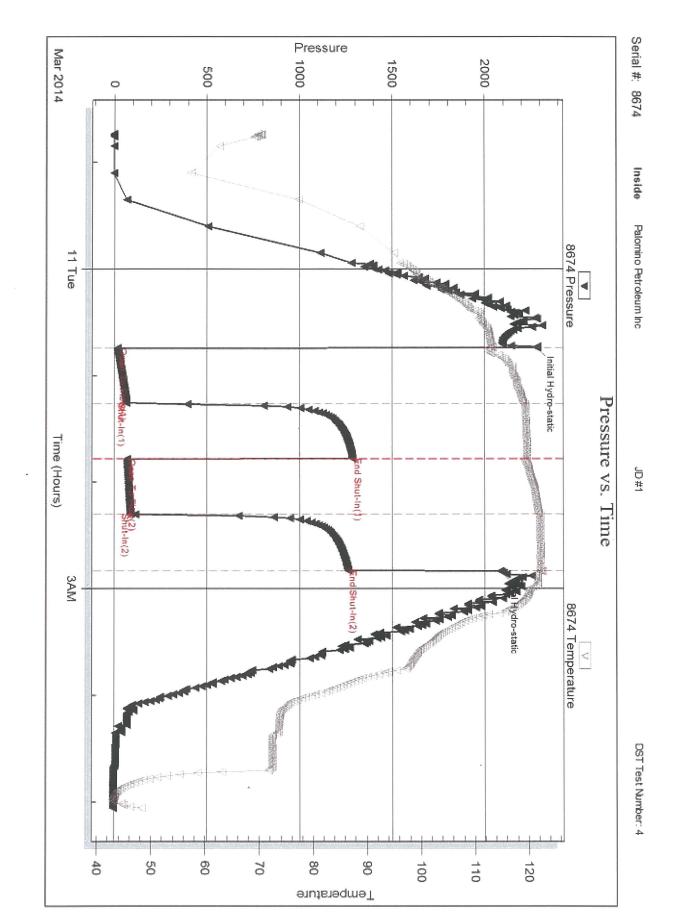
RILOE	ITE		Petroleum l		REPOR	20-17s-23w Ness,KS	TOOL DIAGRAI
TEST	TING , INC	ł					,
		102102	84th St. KS 67114			JD #1	
			1007114			Job Ticket: 56316	DST#:4
		ATTN:	Andrew Ste	nzel		Test Start: 2014.03.10 @	22:44:00
Tool Information		+					
	4294.00 ft	Diameter:	3.80 in	ches Volume:	60.23 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe: Length:		Diameter:		ches Volume:	0.00 bbl	Weight set on Packer	
Drill Collar: Length:	122.00 ft	Diameter:		ches Volume:	0.60 bbl	Weight to Pull Loose: Tool Chased	
Drill Pipe Above KB:	28.00 ft			Total Volume:	60.83 bbl	String Weight: Initial	ft 60000.00 lb
Depth to Top Packer:	4416.00 ft					Final	60000.00 lb
Depth to Bottom Packer:	4432.00 ft						
Interval between Packers:	16.00 ft 141.00 ft						
Tool Length: Number of Packers:	141.00 ft 3	Diameter:	6.75 in	ches			
Tool Comments:	Ŭ		0.70 11				
Change Over Sub Shut In Tool		1.00 5.00			4389.00 4394.00		
Shut In Tool		5.00			4394.00		
Hydraulic tool		5.00			4399.00		
Jars		5.00	-		4404.00 4407.00		
0-6-6-1-1-1-1							
		3.00 5.00				28.00	Bottom Of Top Packer
Packer		5.00			4412.00	28.00	Bottom Of Top Packer
Safety Joint Packer Packer Stubb		5.00 4.00				28.00	Bottom Of Top Packer
Packer Packer Stubb		5.00			4412.00 4416.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Perforations		5.00 4.00 1.00	8355	Outside	4412.00 4416.00 4417.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Perforations Recorder		5.00 4.00 1.00 2.00	8355 8674	Outside Inside	4412.00 4416.00 4417.00 4419.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Perforations Recorder Recorder		5.00 4.00 1.00 2.00 0.00			4412.00 4416.00 4417.00 4419.00 4419.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Perforations Recorder Recorder Perforations Blank Off Sub		5.00 4.00 1.00 2.00 0.00 0.00 9.00 1.00			4412.00 4416.00 4417.00 4419.00 4419.00 4419.00 4428.00 4428.00		
Packer Packer Stubb Perforations Recorder Recorder Perforations Blank Off Sub Top of S Packer		5.00 4.00 1.00 2.00 0.00 9.00 1.00 3.00			4412.00 4416.00 4417.00 4419.00 4419.00 4419.00 4428.00 4429.00 4432.00	28.00	
Packer Packer Stubb Perforations Recorder Recorder Perforations Blank Off Sub Top of S Packer Packer		5.00 4.00 1.00 2.00 0.00 9.00 1.00 3.00			4412.00 4416.00 4417.00 4419.00 4419.00 4419.00 4428.00 4429.00 4432.00		
Packer Packer Stubb Perforations Recorder Recorder Perforations Blank Off Sub Top of S Packer Packer Stubb		5.00 4.00 1.00 2.00 0.00 9.00 1.00 3.00 0.00 1.00	8674	Inside	4412.00 4416.00 4417.00 4419.00 4419.00 4419.00 4428.00 4428.00 4429.00 4432.00 4432.00		
Packer Packer Stubb Perforations Recorder Recorder Perforations Blank Off Sub Top of S Packer Packer Stubb Recorder		5.00 4.00 1.00 2.00 0.00 9.00 1.00 3.00 0.00 1.00 0.00			4412.00 4416.00 4417.00 4419.00 4419.00 4419.00 4428.00 4429.00 4432.00 4432.00 4433.00		
Packer Packer Stubb Perforations Recorder Recorder Perforations Blank Off Sub Top of S Packer Packer Stubb Recorder Perforations		5.00 4.00 1.00 2.00 0.00 9.00 1.00 3.00 0.00 1.00 0.00 1.00 1.00	8674	Inside	4412.00 4416.00 4417.00 4419.00 4419.00 4419.00 4429.00 4429.00 4432.00 4432.00 4433.00 4433.00		
Packer Packer Stubb Perforations Recorder Recorder Perforations Blank Off Sub Top of S Packer Packer Packer Stubb Recorder Perforations Change Over Sub		5.00 4.00 1.00 2.00 0.00 9.00 1.00 3.00 1.00 1.00 1.00 1.00	8674	Inside	4412.00 4416.00 4417.00 4419.00 4419.00 4428.00 4428.00 4429.00 4432.00 4432.00 4433.00 4433.00 4433.00	16.00	Tool Interva
Packer Packer Stubb Perforations Recorder Recorder Perforations Blank Off Sub Top of S Packer Packer Stubb Recorder	l ength:	5.00 4.00 1.00 2.00 0.00 9.00 1.00 3.00 0.00 1.00 0.00 1.00 1.00	8674	Inside	4412.00 4416.00 4417.00 4419.00 4419.00 4419.00 4429.00 4429.00 4432.00 4432.00 4433.00 4433.00	16.00	Bottom Of Top Packer Tool Interval

RILOBITE TESTING , INC	DRI	LL STEM TEST REPOR		FLUID SUMMARY		
		no Petroleum Inc	20-17s-23w Ness,KS			
		4924 SE 84th St. New ton KS 67114				
				Job Ticket: 56316 DST#:4		
, 19) ≁eil u,		ATTN: Andrew Stenzel		Test Start: 2014.03.10 @ 22:44:00		
Mud and Cushion Information						
Mud Type: Gel Chem		Cushion Type:		Oil A PI:	deg API	
Mud Weight: 10.00 lb/gal		Cushion Length:	ft	Water Salinity:	19500 ppm	
Viscosity: 53.00 sec/qt		Cushion Volume:	bbl			
Water Loss: 8.37 in³ Resistivity: ohm.m		Gas Cushion Type: Gas Cushion Pressure:	ncia			
Salinity: 7300.00 ppm		Gas Cushion Pressure.	psig			
Filter Cake: 1.00 inches						
Recovery Information						
		Recovery Table				
Len		Description	Volume bbl			
	30.00	WCM 17%w 83%m with a Skim of Oil on		8		
	62.00	MCW 14%m 86%w with a Few Oil Spots		-		
	62.00	MCW 22%m 78%w	0.59	6		
Total Length:	154	.00 ft Total Volume: 1.049 bbl				
Num Fluid Sam Laboratory Na Recovery Con	me:	Num Gas Bombs: 0 Laboratory Location: <i>N</i> is .515 @ 46f = 19500	Serial <i>‡</i>	÷.		



Ref. No: 56316

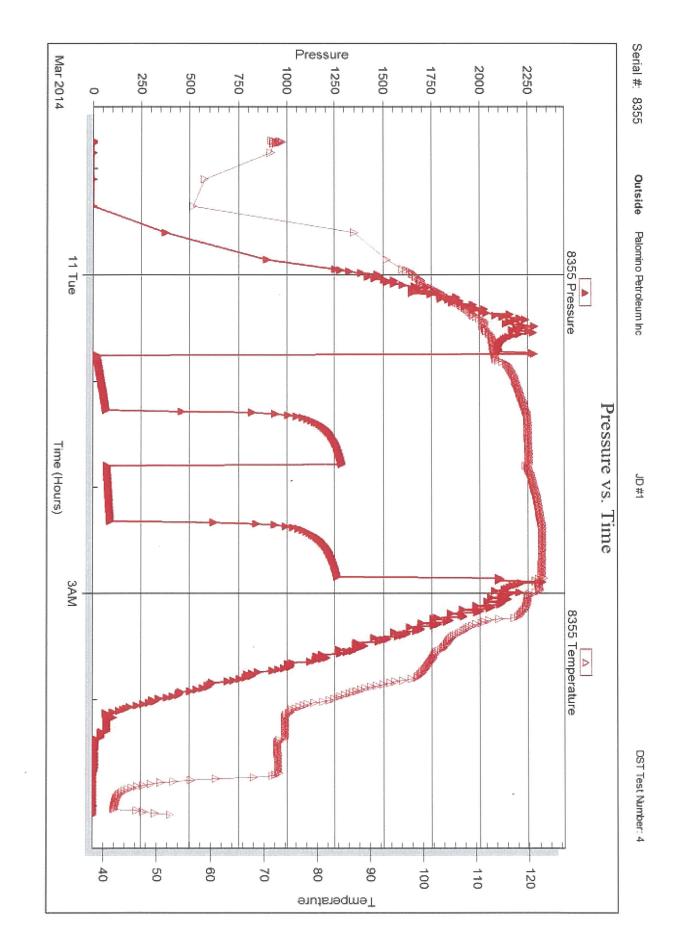




Printed: 2014.03.16 @ 12:24:48

Ref. No: 56316

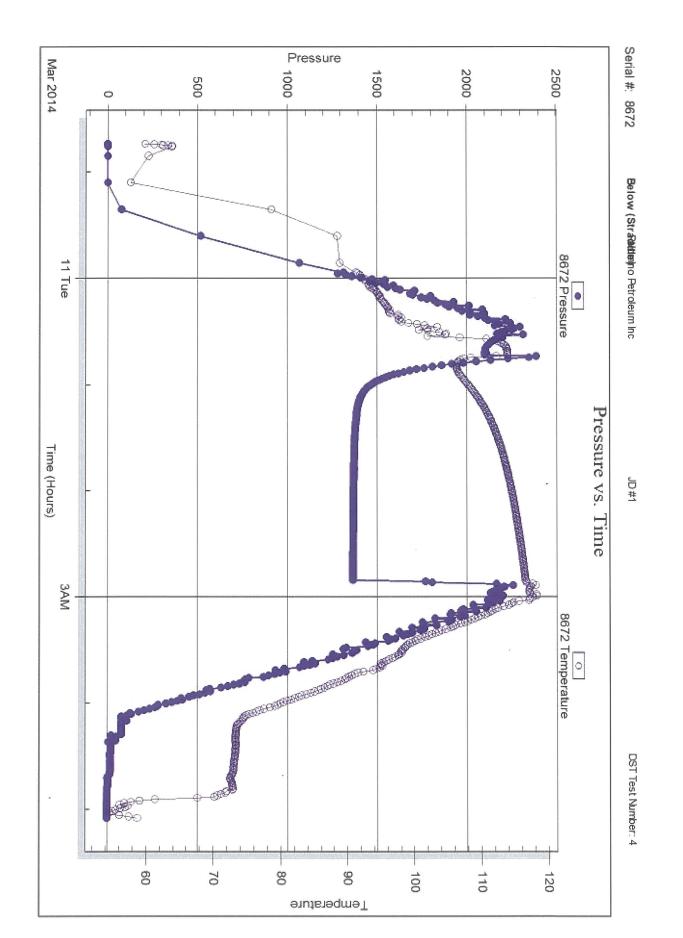
Trilobite Testing, Inc





Ref. No: 56316

Trilobite Testing, Inc





DRILL STEM TEST REPORT

Prepared For:

Palomino Petroleum Inc

4924 SE 84th St. Newton KS 67114

ATTN: Andrew Stenzel

JD #1

20-17s-23w Ness,KS

Start Date:	2014.03.11 @	06:34:00	
End Date:	2014.03.11 @	13:53:09	
Job Ticket #:	56317	DST #:	5

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

RILOBITE	Palomino Petroleum Inc		20-	17s-23₩	Ness,KS		
TESTING, INC					11000,110		
	4924 SE 84th St. New ton KS 67114		JD				
				Ticket: 56		DST#: 5	
	ATTN: Andrew Stenzel		Test	t Start: 20)14.03.11 @	06:34:00	
GENERAL INFORMATION:							
Formation: Ft. Scott Deviated: No Wnipstock: Time Tool Opened: 08:52:40 Time Test Ended: 13:53:09	ft (KB)		Tes Tes Unit	ter: \	Conventiona Will MacLear 72	al Straddle (F n	Reset)
Interval: 4251.00 ft (KB) To 432	28.00 ft (KB) (TVD)		Refe	erence Ele	evations:	2382.00	ft (KB)
Total Depth:4530.00 ft (KB) (TVHole Diameter:7.88 inchesHole	D) Condition: Good			KBt	o GR/CF:	2377.00 5.00	
Serial #: 8674 Inside Press@RunDepth: 40.77 psig (2014.03.11 Start Date: 2014.03.11 Start Time: 06:34:00		2014.03.11 13:53:09	Capacity Last Calil Time On Time Off	b.: Btm: 2	2014.03.11 (2014.03.11 (-	psig
TEST COMMENT: IF- Weak Surface ISI- No Blow FF- Weak Surface FSI- No Blow	Blow Built to 1/2" e Blow Built to 1/2"						
						<u></u>	
Pressure vs. Ti	तार ए ज 804 (त्राइन्स्रोक्ट	Time			RE SUMM		
Pressure vs. Th	DOV formandee	Time (Min.) 0 1 38 63 64 95 128 129	Pressure (psig) 2233.53 20.62 47.54 206.55 31.09 40.77 121.29 2051.72	Temp (deg F) 105.08 106.02 114.15 114.37 114.17	Annotatic Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
Pressure vs. The Definition of the same set o	DIV formation DIV fo	Time (Min.) 0 1 38 63 64 95 128	Pressure (psig) 2233.53 20.62 47.54 206.55 31.09 40.77 121.29	Temp (deg F) 105.08 106.02 114.15 114.37 114.17 114.60 115.04 116.22	Annotatic Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)	
Pressure vs. The 200 Hressure 100 100 100 100 100 100 100 100 100 10	DIV formation DIV fo	Time (Min.) 0 1 38 63 64 95 128	Pressure (psig) 2233.53 20.62 47.54 206.55 31.09 40.77 121.29	Temp (deg F) 105.08 106.02 114.15 114.37 114.17 114.60 115.04 116.22	Annotatio Initial Hydro Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro s Rates	o-static low (1) n(1) low (2) n(2) o-static	Is Rate (Mct/r
Pressure vs. The 200 Heater 201	DV4 tompositive DV4 to	Time (Min.) 0 1 38 63 64 95 128	Pressure (psig) 2233.53 20.62 47.54 206.55 31.09 40.77 121.29	Temp (deg F) 105.08 106.02 114.15 114.37 114.17 114.60 115.04 116.22 Ga	Annotatio Initial Hydro Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro s Rates	o-static low (1) n(1) low (2) n(2) o-static	as Rate (Mct/d

RILOBITE	Palomino Petroleum Inc		20-	17s-23w	Ness,KS	\$	
ESTING, INC	4924 SE 84th St.		JD	#4			
	New ton KS 67114			Ticket: 56	317	DST#:5	
	ATTN: Andrew Stenzel					⊉ 06:34:00	
GENERAL INFORMATION:							
Formation: Ft. Scott Deviated: No Whipstock: Time Tool Opened: 08:52:40 Time Test Ended: 13:53:09	ft (KB)		Tes	ter:	Convention Will MacLea 72	al Straddle (F an	Reset)
Interval: 4251.00 ft (KB) To 43 Total Depth: 4530.00 ft (KB) (T∨			Ref	erence Ee	evations:	2382.00 2377.00	
Hole Diameter: 7.88 inches Hole	Condition: Good			KB t	:o GR/CF:	5.00	ft
Serial #: 8355 Outside	**************************************						
Press@RunDepth: psig (-	0044.00.11	Capacity			8000.00	psig
Start Date: 2014.03.11 Start Time: 06:34:05	End Date: End Time:	2014.03.11 13:54:44				2014.03.11	
			Time Off				
Pressure vs. Ti			-,,		RESUM		
Pressure vs. Ti	IDDC	» Time	-,,				
ZZD	A STE Immundur	(Min.)	Pr Pressure (psig)	RESSUF Temp (deg F)	RE SUMN		-
220 200 40 40 40 40 40 40 40 40 40 40 40 40 4		∞ (Min.)	Pressure	Temp			-
ZZD		(Min.)	Pressure	Temp			-
220		(Min.)	Pressure	Temp			-
220		x (Min.)	Pressure	Temp			-
220		(Min.)	Pressure	Temp			-
220		(Min.)	Pressure	Temp			
223 223 223 233 234 235 235 235 235 235 235 235 235		(Min.)	Pressure	Temp			
273 773 773 774 775 775 775 775 775 775 775 775 775		(Min.)	Pressure	Temp			
220 770 700 700 700 700 700 700 700 700		(Min.)	Pressure	Temp			
ZZD Freezen		(Min.)	Pressure	Temp (deg F)	Annotat s Rates	ion	
zza zza rza rza rza rza rza rza	Volume (bbl)	(Min.)	Pressure	Temp (deg F)	Annotat s Rates	ion	ss Rate (Mcf/d)
ZZD ZZD ZZD ZZD ZZD ZZD ZZD ZZD	Volume (bbl)	(Min.)	Pressure	Temp (deg F)	Annotat s Rates	ion	is Rate (Mct/d)
zza zza rza rza rza rza rza rza	Volume (bbl)	(Min.)	Pressure	Temp (deg F)	Annotat s Rates	ion	ss Rate (Mct/d)
zza zza rza rza rza rza rza rza	Volume (bbl)	(Min.)	Pressure	Temp (deg F)	Annotat s Rates	ion	ss Rate (Mct/d)
The files of the second	Volume (bbl)	(Min.)	Pressure	Temp (deg F)	Annotat s Rates	ion	.s Rate (Mcf/d)

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RILOBITE	Palomino Petroleum Inc			w Ness,KS	
TESTING, INC	4924 SE 84th St.		JD #1	999 19635,r\J	
	New ton KS 67114		Job Ticket:	56317 D	ST#: 5
	ATTN: Andrew Stenzel		Test Start:	2014.03.11 @ 06:34	1:00
GENERAL INFORMATION:					
Formation: Ft. Scott Deviated: No Whipstock: Time Tool Opened: 08:52:40 Time Test Ended: 13:53:09	ft (KB)		Test Type: Tester: Unit No:	Conventional Strac Will MacLean 72	ddle (Reset)
Interval: 4251.00 ft (KB) To 43	28.00 ft (KB) (TVD)		Reference	Elevations: 23	82.00 ft (KB)
Total Depth: 4530.00 ft (KB) (Tv	,				77.00 ft (CF)
Hole Diameter: 7.88 inches Hole	Condition: Good		K	B to GR/CF:	5.00 ft
Serial #: 8672 Below (Strade					
Press@RunDepth: psig (2014 02 14	Capacity:		00.00 psig
Start Date: 2014.03.11 Start Time: 06:34:05	End Date: End Time:	2014.03.11 13:54:29	Last Calib.: Time On Btm:	2014.	03.11
			Time Off Btm:		
80/2 Prosure	BUZ Temperatre	Time (Min.)	Pressure Temp (psig) (deg f		
		(Min.)	Pressure Temp	Annotation	
		(Min.)	Pressure Temp	Annotation	
		(Min.) (Min.) Temperature (dec ?) p	Pressure Temp (psig) (deg f	Annotation	
The late 2014 Time (Hors)	Volume (bbl)	(Min.) (Min.) Temperature (dec ?) p	Pressure Temp (psig) (deg f	Annotation) Gas Rate (M
the late 20H	Volume (bbl)	(Min.) (Min.) Temperature (dec ?) p	Pressure Temp (psig) (deg f	Annotation Annotation Sas Rates) Gas Rate (M
The late 2014 Time (Hors)	Volume (bbl)	(Min.) (Min.) Temperature (dec ?) p	Pressure Temp (psig) (deg f	Annotation Annotation Sas Rates) Gas Rate (M
The late 2014 Time (Hors)	Volume (bbl)	(Min.) (Min.) Temperature (dec ?) p	Pressure Temp (psig) (deg f	Annotation Annotation Sas Rates) Gas Rate (N
The late 2014 Time (Hors)	Volume (bbl)	(Min.) (Min.) Temperature (dec ?) p	Pressure Temp (psig) (deg f	Annotation Annotation Sas Rates) Gas Rate (M
The late 2014 Time (Hors)	Volume (bbl)	(Min.) (Min.) Temperature (dec ?) p	Pressure Temp (psig) (deg f	Annotation Annotation Sas Rates) Gas Rate (N

RILOB	ITE +		o Petroleun			20-17s-23w Ness,K	
TECT	ING , INC	raiomini	5 Fetroleun	i inc		20-17S-23W NeSS, N	5
			E84th St. KS 67114			JD #1	
		INEW LOT	NO 07 114			Job Ticket: 56317	DST#:5
		ATTN:	Andrew S	tenzel		Test Start: 2014.03.11 (@ 06:34:00
Tool Information							
Drill Pipe: Length:	4107.00 ft	Diameter:	3.80	inches Volume:	57.61 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe: Length:	0.00 ft	Diameter:		inches Volume:	0.00 bbl	Weight set on Packe	r: 30000.00 lb
Drill Collar: Length:	122.00 ft	Diameter:	2.25	inches Volume:	0.60 bbl		12000.00 lb
Drill Pipe Above KB:	6.00 ft			Total Volume:	58.21 bbl		ft
-	4251.00 ft					String Weight: Initial	60000.00 lb
	4328.00 ft					Final	60000.00 lb
Interval betw een Packers:	77.00 ft						
Tool Length:	307.00 ft						
Number of Packers:	3	Diameter:	6.75	inches			
Tool Comments:							
Tool Description	Len		Serial No	. Position		Accum. Lengths	
Change Over Sub		1.00			4224.00		
Shut In Tool		5.00			4229.00		
Hydraulic tool		5.00 5.00			4234.00 4239.00		
Jars		3.00			4239.00		
Safety Joint					4242.00	00.00	
-		5 00				28.00	Bottom Of Top Packer
Packer		5.00				28.00	Bottom Of Top Packer
Packer Packer	M/07/11/1	4.00			4251.00	28.00	Bottom Of Top Packer
Packer Packer Stubb		4.00 1.00	8355	Outside	4251.00 4252.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Recorder		4.00 1.00 0.00	8355		4251.00 4252.00 4252.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder		4.00 1.00 0.00 0.00			4251.00 4252.00 4252.00 4252.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations		4.00 1.00 0.00 0.00 5.00			4251.00 4252.00 4252.00 4252.00 4257.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub		4.00 1.00 0.00 0.00 5.00 1.00			4251.00 4252.00 4252.00 4252.00 4257.00 4258.00	28.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe		4.00 1.00 0.00 5.00 1.00 53.00			4251.00 4252.00 4252.00 4252.00 4257.00 4258.00 4321.00		Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub		4.00 1.00 0.00 5.00 1.00 63.00 1.00			4251.00 4252.00 4252.00 4252.00 4257.00 4258.00 4321.00 4322.00		Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00			4251.00 4252.00 4252.00 4257.00 4258.00 4321.00 4322.00 4324.00		Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00 1.00			4251.00 4252.00 4252.00 4257.00 4257.00 4258.00 4321.00 4322.00 4322.00 4324.00		Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Top of S Packer		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00 1.00 3.00			4251.00 4252.00 4252.00 4257.00 4258.00 4321.00 4322.00 4324.00 4325.00 4328.00	77.00	
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Top of S Packer Packer		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00 1.00 3.00 0.00			4251.00 4252.00 4252.00 4257.00 4257.00 4258.00 4321.00 4322.00 4322.00 4324.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Top of S Packer Packer Stubb		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00 1.00 3.00 0.00 1.00	8674	Inside	4251.00 4252.00 4252.00 4257.00 4258.00 4321.00 4322.00 4322.00 4324.00 4325.00 4328.00 4328.00 4329.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Top of S Packer Packer Stubb Recorder		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00 1.00 3.00 0.00 1.00 0.00		Inside	4251.00 4252.00 4252.00 4257.00 4257.00 4321.00 4322.00 4324.00 4325.00 4328.00 4328.00 4328.00 4329.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Top of S Packer Packer Stubb Recorder Perforations		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00 1.00 3.00 0.00 1.00 5.00	8674	Inside	4251.00 4252.00 4252.00 4257.00 4258.00 4321.00 4322.00 4324.00 4325.00 4328.00 4328.00 4329.00 4329.00 4334.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Top of S Packer Packer Stubb Recorder Perforations Change Over Sub		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00 1.00 3.00 0.00 1.00 0.00 5.00 1.00 1.00	8674	Inside	4251.00 4252.00 4252.00 4257.00 4258.00 4321.00 4322.00 4324.00 4325.00 4328.00 4328.00 4328.00 4329.00 4329.00 4334.00 4335.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Blank Off Sub Top of S Packer Packer Stubb Recorder		4.00 1.00 0.00 5.00 1.00 53.00 1.00 2.00 1.00 3.00 0.00 1.00 5.00	8674	Inside	4251.00 4252.00 4252.00 4257.00 4258.00 4321.00 4322.00 4324.00 4325.00 4328.00 4328.00 4329.00 4329.00 4334.00		

Trilobite Testing, Inc

RILOBITE Palomino Petroleum Inc 20-17s-23w Ness,K3 VICE STING, INC 4924 SE 84th St. JD #1 New ton KS 67114 Job Ticket: 56317 ATTN: Andrew Stenzel Test Start: 2014.03.11	3
New ton KS 67114 Job Ticket: 56317	
	DST#: 5
ATTN: Andrew Stenzel Test Start: 2014.03.11 (
Mud and Cushion Information	
Mud Type: Gel Chem Cushion Type: Oil API:	deg API
Mud Weight: 9.00 lb/gal Cushion Length: ft Water Sali	_
Viscosity: 48.00 sec/qt Cushion Volume: bbl	
Water Loss: 6.36 in ³ Gas Cushion Type:	
Resistivity: ohm.m Gas Cushion Pressure: psig	
Salinity: 5900.00 ppm	
Filter Cake: 1.00 inches	
Recovery Information Recovery Table	
Length Description Volume	
ft bbl 10.00 GM 3%g 97%m w ith a Skim of Oil 0.049	
Total Length: 10.00 ft Total Volume: 0.049 bbl	
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:	
Laboratory Name: Laboratory Location:	
Recovery Comments:	
Trilobite Testing, Inc Ref. No: 56317 Printed: 2014.03.1	0.00.40.04.40

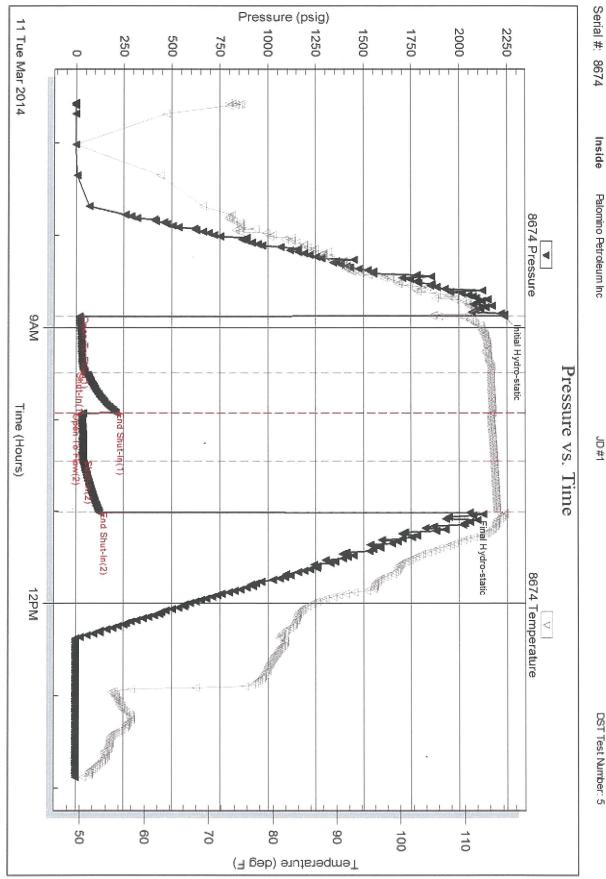


Ref. No: 56317

Trilobite Testing, Inc







JD #1

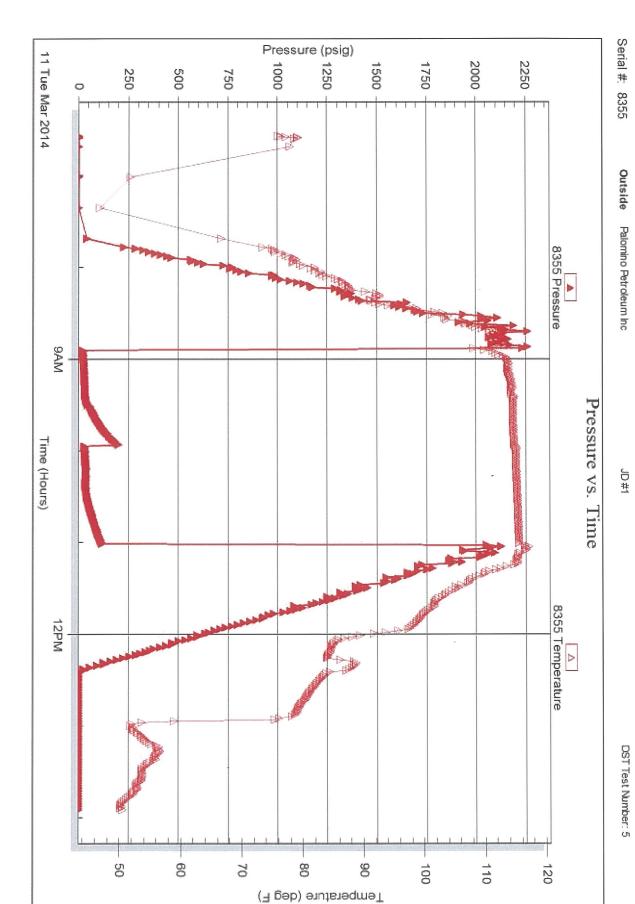
DST Test Number: 5



56317

Trilobite Testing, Inc

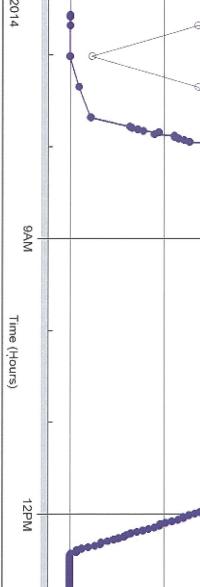


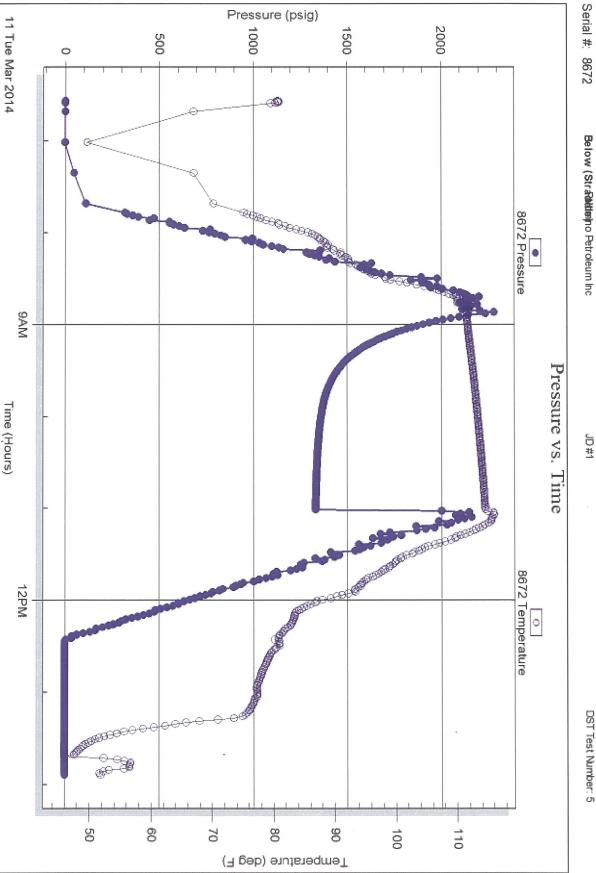




Ref. No: 56317

Trilobite Testing, Inc





JD #1

DST Test Number: 5

4/10 RILOBITE ESTING INC. 1515 Commerce Parkway		Test Ticket No. 56313
Well Name & No. J-D #/ Company Palomino Patroleum Address 4924 SF 84th St. Co. Rep / Geo. Andrew Stanzel	Test No. DST JAC Elevation 238 NEWTON RS 67/14 Rig WW Ro	=1
Location: Sec. 20 Twp. $1/s$ Interval Tested $4326 - 4383$ Anchor Length 55 Top Packer Depth 4324	Rge. 23 W Co. N-55 Zone Tested <u>Chero Ree</u> Drill Pipe Run <u>4203</u> Drill Collars Run <u>122</u>	
ISI- No Blow FF- Built to Wa	Wt. Pipe Run Chlorides <u>5900</u> ppm Sys Blow But Ho VG'' AR Surface Blow	tem LCM <u>Truce</u>
$\begin{array}{c} FSJ = N_{O} B l_{OV} \\ \hline \\ Rec 5 Feet of 0 1 \\ \hline \\ Rec 5 Feet of 0 0 \\ \hline \\ Rec 6 Feet of 0 0 \\ \hline \\ Rec 6 Feet of 0 \\ \hline \\ \hline \\ Rec 6 Feet of 0 \\ \hline \\ \end{array}$	%gas /()() 3 %gas 65 3 %gas 7 %gas	%oil%water%mud%oil%water32%mud%oil%water88%mud%oil%water%mud
Rec Feet of Rec Total 25 BHT / [3] (A) Initial Hydrostatic Q171 (B) First Initial Flow 19 (C) First Final Flow 27	%gas Gravity 36 API RW @ Test 1250 Jars 250 Defets 75	%oil %water %mud °F Chlorides ppm T-On Location ?I.04 T-Started ?2:24 T-Open OO:29
(C) First Final Flow 27 (D) Initial Shut-In 9/1 (E) Second Initial Flow 30 (F) Second Final Flow 35 (G) Final Shut-In 694	Q / Safety Joint75 Q Circ Sub □ Hourly Standby □ Mileage2 (0/2 / 1195.30 □ Sampler	T-Pulled 2:35 T-Out 4:50/Psylight grann Comments $_{5:50}$ $I_{cs} + V_{cs} = 0! 5:50$ $AP I_{15} = 34 e 40t = 36$
(H) Final Hydrostatic <u>2096</u> Initial Open <u>30</u> Initial Shut-In <u>30</u>	 Straddle Shale Packer Extra Packer Extra Recorder 	Ruined Shale Packer Ruined Packer Extra Copies Sub Total0
Final Flow	Day Standby Accessibility Sub Total _1770.30	Total <u>1770.30</u> MP/DST Disc't

July Mar -----

4/10 RILOBITE ESTING INC. 1515 Commerce Parkway	N	e st Ticket o. 56314
Well Name & No. J. D. # 1 Company Palomino Petroleum IV Address <u>4924</u> <u>SE 84th st</u> Co. Rep / Geo. <u>Awdrew</u> <u>Stenzel</u> Location: Sec. <u>20</u> Twp. <u>175</u>	Test No. DST #0 Test No. DST #0 Elevation 2382 Newton KS 67114 Rig WW Kis Rig. 23W Co. Norss	кв_ <u>2377</u> _GL
	Zone Tested <u>Chero Rec</u> Drill Pipe Run <u>4203</u> Drill Collars Run <u>122</u> Wt. Pipe Run O Chlorides <u>6200</u> ppm System T Blow Boilt to $3\frac{12}{2}$	Mud Wt. <u>9.3</u> Vis <u>55</u> WL <u>8.0</u> LCM <u>Trave</u>
 (A) Initial Hydrostatic <u>2162</u> (B) First Initial Flow <u>23</u> (C) First Final Flow <u>74</u> (D) Initial Shut-In <u>1225</u> (E) Second Initial Flow <u>74</u> 	Image: Description of the state of	bil %water (@.(_%mud bil %water & 2.%mud bil 3%water & 2.%mud
 (F) Second Final Flow <u>S4</u> (G) Final Shut-In <u>1171</u> (H) Final Hydrostatic <u>2070</u> Initial Open <u>36</u> Final Flow <u>36</u> Final Shut-In <u>30</u> 	Straddle Shale Packer Extra Packer Extra Recorder Standby	$P_{1 \cdot 5}$ $3l \in 601 = 36$ Ruined Shale Packer

Our Representative_

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

AVID RILOBITE ESTING IN 1515 Commerce Parkw	I C. ∕ay ∙ Hays, Kansas 67601	Test Ticket NO. 56315
Well Name & No. <u>JD #1</u> Company <u>Palomino Patroleum</u> Address <u>4924 SE 84th St.</u> Co. Rep / Geo. <u>Andrew Stenzel</u> Location: Sec. <u>20</u> Twp. <u>175</u>	The Elevation_ IVenton KS 67119 Rig W	$\frac{2382}{W} R_{5} = \frac{3 - 10 - 14}{KB} GL$
Interval Tested <u>4328 - 4419</u> Anchor Length <u>91</u> Top Packer Depth <u>4324</u> Bottom Packer Depth <u>4328</u> Total Depth <u>4419</u> Blow Description <u>IF-Weark Surface</u> <u>ISJ-No Blow</u>	Zone Tested <u>Charokae</u> Drill Pipe Run <u>4203</u> Drill Collars Run <u>122</u> Wt. Pipe Run <u>0</u> Chlorides <u>6200</u>	Mud Wt. <u>9.3</u> Vis <u>55</u> WL <u>8.0</u> Dopm System LCM <u>Trace</u>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 %gas 3%gas 4 %gas 2%gas	80%oil %water 79 %mud 22%oil %water 75 %mud 7 %oil %water 87 %mud 5 %oil %water 73 %mud %oil %water %mud
Rec Total 184 BHT $1/2$ (A) Initial Hydrostatic 2176 (B) First Initial Flow 25 (C) First Final Flow 76 (D) Initial Shut-In 1210 (E) Second Initial Flow 80 (F) Second Final Flow 92	Gravity <u>35</u> API RW ↓ Test <u>1250</u> ↓ Jars <u>250</u> ↓ Safety Joint <u>75</u> ↓ Circ Sub <u>16</u> ↓ Oirc Sub <u>16</u> ↓ Mileage <u>126</u> <u>R/T</u> 195	T-Open <u>4.48</u> T-Pulled <u>9.58</u> T-Out <u>91.30</u> Comments
(G) Final Shut-In //78 (H) Final Hydrostatic /976 Initial Open 30 Final Flow 30 Final Shut-In 30	Extra Recorder	Ruined Shale Packer Ruined Packer Extra Copies Sub Total Total 1770.30 MP/DST Disc't

Approved By ______ Our Representative ______ My Mw______ 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.

4/10 RILOBITE STING INC. 1515 Commerce Parkway		Test NO.	Ticket 56316
Well Name & No) D #1 Company <u>Palomino Petroleum 7</u> Address <u>4924</u> <u>SF 84th Sf</u> Co. Rep/Geo. <u>Andrew Stenze</u>	Test No. <u>DST</u> <u>ac</u> <u>Elevation</u> <u>238</u> <u>Newton</u> <u>125</u> <u>67114</u> <u>Rig</u> <u>N</u> <u>N</u> <u>R</u>	12	Date <u>3-10-74</u> _KB_ <u>2377</u> _GL
Location: Sec. <u>20</u> Twp. <u>175</u>	Rge. 23 N Co. NESS		State <u>/ S</u>
Interval Tested $4416 - 4432$ Anchor Length 16 Top Packer Depth 4416 Bottom Packer Depth 4432 Total Depth 4530 Plan Paceidia Theory 5460	Zone Tested $M_{1.55}/55/pp/$ Drill Pipe Run 4294 Drill Collars Run 122 Wt. Pipe Run O Chlorides 7300 ppm Syst	Vi: W	\$ 11
Blow Description <u>11- Weak Surface</u> IST - No Blow	- Blow Built to I'		
FSI-No Blow	Blow Built to 23/4"		
Rec. 30 Feet of WCM HIE	Skim of Ollow Tap %gas	%oil	17 %water 83 %mud
Rec 67 Feet of Mit with	Feu Oil Spols %gas	%oil	<u>86 %water 14 %mud</u>
Rec_(c_2 Feet of MCW	%gas	%oil	TS %water J2 %mud
Rec Feet of	%gas	%oil	%water %mud
Rec Feet of	%gas	%oil	%water %mud
Rec Total			Chlorides /9 500 _ ppm
(A) Initial Hydrostatic 2282			ation <u>21:54</u>
(B) First Initial Flow			22:44
(C) First Final Flow	U Safety Joint	•	00 44
(D) Initial Shut-In/28/7	Circ Sub	T-Pulled _ T-Out	
(E) Second Initial Flow	Hourly Standby	Aug	ts
(F) Second Final Flow	□ / Mileage <u> </u>	Comment	
(G) Final Shut-In / 2 6 /	Sampler		
(H) Final Hydrostatic2083	Straddle 600	C Ruine	ed Shale Packer
	Shale Packer	🗆 Ruine	ed Packer
Initial Open <u>30</u>	Extra Packer		Copies
Initial Shut-In <u>30</u>	Extra Recorder		I0
Final Flow	Day Standby	Total	
Final Shut-In 30	Accessibility	MP/DST	Disc't
	Sub Total 2570.30	4 4 4 -	

Approved By ______ Our Representative ______ Min Minute Street St

FILOBITE ESTING INC. 1515 Commerce Parkway	• Hays, Kansas 67601		Test Ti NO.	i cket 6317	
Well Name & No. <u>JD #1</u> Company <u>Palomino Petroleum</u> Address <u>4924 SE 84th Sf</u>	2	Elevation <u>238</u> 67/14	2к		-/4GL
Co. Rep / Geo. <u>Andrew Stenzel</u> Location: Sec. <u>20</u> Twp. <u>175</u>	Rge2312C	Rig WW R.S		Statek	25
Interval Tested <u>4251 - 4328</u> Anchor Length <u>77</u> Top Packer Depth <u>4251</u> Bottom Packer Depth <u>4328</u> Total Depth <u>4530</u> Blow Description <u>TF-Weck Surface</u>	Zone Tested <u>Ff.</u> Drill Pipe Run <u>4</u> Drill Collars Run <u>1</u> Wt. Pipe Run <u>0</u> Chlorides <u>7.300</u> Blow Bwilt to Y2		Vis WL _	Mr. <u>9.5</u> 53 8.4 Trace	······································
ISJ- No Blow	Blow Built to 1/2		%oil	%water	917%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/0BHT//5(A) Initial Hydrostatic2233(B) First Initial Flow20(C) First Final Flow 47 (D) Initial Shut-In206(E) Second Initial Flow31(F) Second Final Flow40(G) Final Shut-In121(H) Final Hydrostatic2051Initial Open30Final Flow30Final Flow30Final Shut-In30	Test 1250 Jars 250 Safety Joint 75 Circ Sub ////////////////////////////////////	1 lucation	T-On Location T-Started T-Open T-Pulled Comments Comments Ruined S Ruined S Ruined S Extra Co Sub Total Total	brides n 21.54 5.52 7.00 7.53 Shale Packer Packer pies 0 75 isc't	<u>.</u>
	Sub Total 2175		IA AM A		