KOLAR Document ID: 1440145

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xxx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
□ OG □ GSW	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.):	Multiple Stage Cementing Collar Used?
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 EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	Leading of field floorest life and of the
	Location of fluid disposal if hauled offsite:
☐ EOR Permit #: ☐ GSW Permit #:	Operator Name:
GOW Tellill#.	Lease Name: License #:
Could Date or Date Decembed TD Commission Date or	Quarter Sec TwpS. R
Recompletion Date Date Reached ID Completion Date or Recompletion Date	County: Permit #:
Spud Date or Pate Reached TD Completion Date or Recompletion Date Recompletion Date	

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY					
Confidentiality Requested					
Date:					
Confidential Release Date:					
☐ Wireline Log Received ☐ Drill Stem Tests Received					
Geologist Report / Mud Logs Received					
UIC Distribution					
ALT I III Approved by: Date:					

KOLAR Document ID: 1440145

Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	Type of Cement # Sacks Used Type and Percent Additives					
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion	
Operator	Palomino Petroleum, Inc.	
Well Name	BUTTERFIELD 3	
Doc ID	1440145	

All Electric Logs Run

Litho Density Neutron
Dual Induction
Micro
Dual Receiver Cement Bond

Form	ACO1 - Well Completion	
Operator	Palomino Petroleum, Inc.	
Well Name	BUTTERFIELD 3	
Doc ID	1440145	

Tops

Name	Тор	Datum		
Anhy.	1957	(+ 540)		
Base Anhy.	1998	(+ 499)		
Heebner	3746	(-1249)		
Lansing	3784	(-1287)		
Muncie Creek	3934	(-1437)		
Stark Shale	4015	(-1518)		
ВКС	4066	(-1569)		
Marmaton	4091	(-1594)		
Pawnee	4212	(-1715)		
Ft. Scott	4275	(-1778)		
Cherokee Sh.	4296	(-1799)		
Miss.	4376	(-1879)		
LTD	4471	(-1974)		

Form	ACO1 - Well Completion	
Operator	Palomino Petroleum, Inc.	
Well Name	BUTTERFIELD 3	
Doc ID	1440145	

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement	Type and Percent Additives
Surface	12.250	8.625	23	202	Common	2% gel. 3% c.c
Production	7.875	5.500	14	2112	QMD	2% gel. 3% c.c

RECEIVED

GLOBAL OIL FIELD SERVICES, LLC

NOV 2 9 2018

Invoice

Date Invoice # 0013264

24 S. Lincoln RUSSELL, KS 67665

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

P.O. No.	Terms	Project	
BUTTERFIELD#3	Due on receipt		

Quantity	Description		Rate		Amount
	COMMON CEMENT			6.50	2,805.00
6	CALCIUM-CHLORIDE			0.00	480.00
	BENTONITE GEL			0.00	120.00
180	HANDLING			1.90	342.00
	BULK MILEAGE		63	0.00	630.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE		85	0.00	850.00
45	HEAVY EQUIPMENT. ONE WAY			6.50	292.50
45	LMV- ONE WAY			2.75	123.75
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE				
	NESS CO SALES TAX		7.5	0%	0.00
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ank you for you	r business.				

Phone # Fax # 785-445-3525 785-445-3526

Total

\$5,643.25

GLOBAL OIL FIELD SERVICES, LLC

REMITTO 24 S. LINCOIN Duscall VS 67665	SERVICE POINT:	Russell 185
Russell, KS 67665	and the forms of pay	1.41/2/1/25
- Inc. (1 1700) (4)	trus accordin endolprion cidencida	ELECTIVE OF ARCHOOS CORN CORNERS ASSESSMENT
DATE SEC. // TWP. RANGE 26 CA	ALLED OUT ON LOCATION	730 800
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OLD OR NEW (CIRCLE ONE) North 10-10	Variety to execute the REMOTEL	On the each behavior 200 to riske.
O POMPA IN O		as toerince and ritiw being yarrand
CONTRACTOR W tw Drilling Rig #77	OWNER Palaning	Petrollun
TYPE OF JOB Surface	Alaffirm and library whom the library or	to consider the latter of the Constant of
HOLE SIZE 17 14 T.D. CASING SIZE 4.34 DEPTH 7.75/	CEMENT / 7	1=4 (on 291)
TUBING SIZE DEPTH	AMOUNT ORDERED / /	13x com 370cc
DRILL PIPE DEPTH	4000	Continue of the second residence of the second
TOOL DEPTH	a clay act to a second control of the control of th	Servery on applied from a consequence and says
PRES. MAX MINIMUM	COMMON	
MEAS. LINE SHOE JOINT	POZMIX	_ @
CEMENT LEFT IN CSG. 75	GEL	@
PERFS DISPLACEMENT	CHLORIDE	_ @
DISPLACEMENT EQUIPMENT	ASC	_ @
EQUIPMENT	The state of the s	_ @
PUMPTRUCK CEMENTER CODY	20 tima benefoto e accurationem nos	@
# GOY HELPER Brad	e da estima yo behis on ceensos en	_ @
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BULK TRUCK	ed Philipping Control of the second	@
# DRIVER		_ @
	HANDLING	_ @
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CHARGE TO: 1910 Mi A 0 18460 11 UM		TOTAL
STREET		TOTAL
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al ythaniae and reginado a 202 specient one dathrete	PLUG & FLC	DAT EQUIPMENT
Clabal Oil Field Consists III O	it of allows on for needs, as its opt	ensweastly limited to recalc management
Global Oil Field Services, LLC	(可能)(FO) ON ONA CONTON	@ <u></u>
You are hereby requested to rent cementing equipment and	shara yara e negliji bar jada dist	@ <u></u>
furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction	penie nytro una clos distributo i sur	@
and supervision of owner agent or contractor. I have read and		@
understand the "GENERAL TERMS AND CONDITIONS"		_ @
listed on the reverse side.	2015 Fundado como a de horresta	ark Borde, loarrows ties as healthirds
	A control of the first of the state of the s	IUIAL
PRINTED NAME	CALEG TAV (IS A)	Nothing in the corpus staff be
of The yel open argument many to do use	SALES TAX (If Any)	Tale Tracket Times to Tourney State To
SIGNATURE STORY	TOTAL CHARGES	Locus ai geardan Loci ea datic ace
	DISCOUNT	IF PAID IN 30 DAYS



NUV JU ZU18

QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665 PHONE:785-324-1041 FAX:785-483-1087 EMAIL: cementing@ruraltel.net

Date: 11/24/2018 Invoice # 1073

P.O.#:

Due Date: 12/24/2018 Division: Russell

Invoice

Contact:

Palomino Petroleum Inc Address/Job Location:

4924 SE 84th Newton Ks 67114

Reference:

BUTTERFIELD 3 SWD SEC 11-14-26

Description of Work: PROD STRING

Services / Items Included:	Quantity		Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$	675.02	No				
Multi Density- 80/20	350	\$	4,766.45	Yes				
5 1/2" Basket	2	\$	423.68	Yes				- 1
5 1/2" Turbolizer	6	\$	326.84	Yes				- 1
Mud Clear	500	\$	279.93	Yes				Į
Auto Fill Float Shoe, 5 1/2"	1	\$	254.21	Yes				
Bulk Truck Matl-Material Service Charge	350	\$	264.80	No				
Latch Down Plug & Baffle, 5 1/2"	1	\$	201.25	Yes				
Flo Seal	100	\$	151.32	Yes				
Pump Truck Mileage-Job to Nearest Camp	47	\$	160.02	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	47	\$	124.46	No				
Invoice Terms:						SubTotal:	\$ 7,627.98	
Net 30			Discou	ınt Availa	ble <u>ONLY</u> if Invoice is i within listed	Paid & Received terms of invoice:	\$ (190.70)	
					SubTota	al for Taxable Items:	\$ 6,243.59	
		100			SubTotal for	Non-Taxable Items:	\$ 1,193.69	
						Total:	\$ 7,437.28	
				8.50% Gov	ve County Sales Tax	Tax:	\$ 530.71	
Thank You For Your Business!						Amount Due:	\$ 7,967.99	
					App	olied Payments:		
						Balance Due:	\$ 7,967.99	

Past Due Invoices are subject to a service charge (annual rate of 24%) This does not include any applicable taxes unless it is listed. ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1073

Sec.	Twp. Range		County	State	On Location	Finish
Date 1/24-18	14/26	200k	0	K2		8130>-
Roca		£	on Winte	5 153 KPU	4E /V	P
Lease Durrentiel	3 Well No.5W		Owner -	Book Consortion Inc.		and to the state of the state o
Contractor (T)	\$ **	,	You are here	ilwell Cementing, Inc. by requested to rent	cementing equipmen	t and furnish
Type Job Production S	tring			d/helper to assist owr	er or contractor to de	o work as listed.
Hole Size 7/8	T.D. :		Charge To	ralowino 1	etro leum	
Csg. 5/2 14#	Depth 2/15.2	5	Street			
Tbg. Size	Depth		City.		State	
Tool	Depth			s done to satisfaction ar	F 3 - 1	
Cement Left in Csg. 32.15	Shoe Joint 3 2/5	-		ount Ordered 3.52	20/20 8/MIX	1/4/18/10
Meas Line	Displace 50 741	3८	500gal Y	42/ -	· ·	
EQUIPA	<u> </u>		Common 3	90 % Omb	<u> </u>	
Pumptrk JU Helper D	4.5		Poz. Mix			<u> </u>
Bulktrk Driver	Ч		Gel.			
Bulktrk 9 Driver			Calcium		·	
JOB SERVICES	& REMARKS		Hulls		. '	
Remarks:			Salt			
Rat Hole 305K	<u> </u>		Flowseal	100 H		
Mouse Hole			Kol-Seal			
Centralizers	A STATE ASSESSMENT OF THE STATE		Mud CLR 48	SOO gal		
Baskets			CFL-117 or (CD110 CAF 38		<u> </u>
D/V or Port Collar			Sand			
5/2 Se+ (2)15.	Inder 2083		Handling 5	350		
BS+ Cirwlation	Jup 500001		Mileage			
mys Orlan Mys F	whole 305K			FLOAT EQUIPM	ENT	1
CAMENT 51/2WI	th 3209K		Guide Shoe			
Clear lines & Di	place Phy.		Centralizer (6		
Dwa lander @ 120	29年		Baskets	7		
Life Diessine 700	# -	33	AFU Inserts			
			Float Shoe			
ement(in	wlated'r		Latch Down			
						-
	Kg	1,130.00			•	
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7/5			Mileage 4	7 5	<u> </u>	
			,	· .	Tax	
40	11 1				Discount	
X Signature	los Al	,			Total Charge	



Prepared For: Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: Andrew Stenzel

Butterfield #3

11-14s-26w Gove,KS

Start Date: 2018.11.21 @ 12:45:00 End Date: 2018.11.21 @ 20:05:30 Job Ticket #: 64431 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum, Inc.

4924 SE 84th St. New ton, KS 67114

ATTN: Andrew Stenzel

11-14s-26w Gove,KS

Butterfield #3

Job Ticket: 64431

DST#: 1

Test Start: 2018.11.21 @ 12:45:00

GENERAL INFORMATION:

Time Tool Opened: 15:19:00

Time Test Ended: 20:05:30

Formation:

LKC- H&I

Deviated:

Interval:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Bradley Walter

Unit No:

78

Reference Elevations:

2497.00 ft (KB)

2488.00 ft (CF)

3926.00 ft (KB) To 3990.00 ft (KB) (TVD) 3990.00 ft (KB) (TVD)

Inside

Total Depth: Hole Diameter:

7.88 inches Hole Condition: Good

KB to GR/CF:

9.00 ft

Serial #: 8522

Press@RunDepth:

25.67 psig @

2018.11.21

3927.00 ft (KB) End Date:

2018.11.21

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

12:45:05

End Time:

20:05:29

Time On Btm:

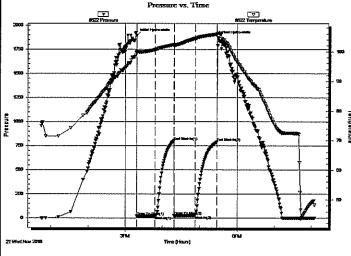
2018.11.21 2018.11.21 @ 15:18:30

Time Off Btm:

2018.11.21 @ 17:29:30

TEST COMMENT: 30- IF: 1/2" blow.

30- ISI: No return. 30- FF: Surface blow. 30- FSI: No return



	·								
	PRESSURE SUMMARY								
	Time	Pressure	Temp	Annotation					
	(Min.)	(psig)	(deg F)						
	0	1893.24	99.88	Initial Hydro-static					
	1	17.09	99.26	Open To Flow (1)					
	30 20.99 100.			Shut-In(1)					
	61 801.28		102.33	End Shut-In(1)					
5	61	21.68	101.85	Open To Flow (2)					
Temperatura	94	25.67	104.39	Shut-In(2)					
\$	130 787.81		105.87	End Shut-In(2)					
	131 1868.20 106.		106.46	Final Hydro-static					
			1						

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m (oil speks)	326.79

Gas Rat	es	
Choke (inches)	Pressure (psin)	Gas Rate / Mc

Trilobite Testing, Inc

Ref. No: 64431



Palomino Petroleum, Inc.

11-14s-26w Gove,KS

4924 SE 84th St. Newton, KS 67114 Butterfield #3 Job Ticket: 64431

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2018.11.21 @ 12:45:00

GENERAL INFORMATION:

Formation:

LKC- H&I

Deviated:

Nο Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Bradley Walter

Unit No:

78

Time Test Ended: 20:05:30 interval:

Time Tool Opened: 15:19:00

3926.00 ft (KB) To 3990.00 ft (KB) (TVD)

Reference Elevations:

2497.00 ft (KB)

Total Depth:

2488.00 ft (CF)

3990.00 ft (KB) (TVD)

KB to GR/CF:

9.00 ft

Hole Diameter:

7.88 inches Hole Condition: Good

Serial #: 8319

Press@RunDepth:

psig @

3927.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Start Date:

2018.11.21

Outside

End Date:

2018.11.21 20:05:14

Time On Btm:

2018.11.21

Start Time:

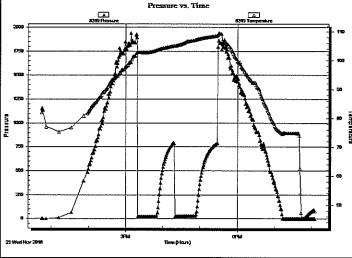
12:45:05

End Time:

Time Off Btm:

TEST COMMENT: 30- IF: 1/2" blow. 30- ISI: No return.

30- FF: Surface blow. 30- FSI: No return



Р	RESSUR	RE SUMMARY
Pressure	Temp	Annotation

	(Min.)	(psig)	(deg F)	Amotation
Temperature				
			i	

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m (oil speks)	326.79

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

Trilobite Testing, Inc

Ref. No: 64431



TOOL DIAGRAM

Palomino Petroleum, Inc

ATTN: Andrew Stenzel

4924 SE 84th St. Newton, KS 67114 11-14s-26w Gove, KS

Butterfield #3

Job Ticket: 64431

DST#: 1

Test Start: 2018.11.21 @ 12:45:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length:

Length: 3792.00 ft Diameter: 0.00 ft Diameter: 116.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 116.00 inches Volume: 1516.29 bbl

53.19 bbl 0.00 bbl

Total Volume: 1569.48 bbl

Tool Weight: Weight set on Packer: 25000.00 lb Weight to Pull Loose: 60000.00 lb

2500.00 lb

Tool Chased

0.00 ft

String Weight: Initial 45000.00 lb

Final 45000.00 lb

Drill Pipe Above KB:

Depth to Top Packer: Depth to Bottom Packer:

Interval between Packers:

9.00 ft 3926.00 ft

ft 64.00 ft

Tool Length:

Number of Packers:

91.00 ft 2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1,00			3900.00		
Shut in Tool	5.00		Fluid	3905.00		
Hydraulic tool	5.00			3910.00		
Jars	5.00			3915.00		
Safety Joint	2.00			3917.00		
Packer	5.00		Inside	3922.00	27.00	Bottom Of Top Packer
Packer	4.00		****	3926.00		
Stubb	1.00			3927.00		
Recorder	0.00	8522	Inside	3927.00		
Recorder	0.00	8319	Outside	3927.00		
Perforations	27.00			3954.00		
Change Over Sub	1.00			3955.00		
Drill Pipe	31.00			3986.00		
Change Over Sub	1.00			3987.00		
Bullnose	3.00			3990.00	64.00	Bottom Packers & Anchor

Total Tool Length:

91.00

Trilobite Testing, Inc

Ref. No: 64431



FLUID SUMMARY

Palomino Petroleum, Inc

11-14s-26w Gove, KS

4924 SE 84th St. Newton, KS 67114 Butterfield #3 Job Ticket: 64431

fŧ

bbl

psig

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2018.11.21 @ 12:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: Viscosity:

9.00 lb/gal 65.00 sec/qt

Water Loss:

5.99 in³ Resistivity: ohm.m

Salinity: Filter Cake: 2200.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API: Water Salinity: 0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft Description Volume bbl Mud 100m (oil speks) 25.00 326.787

Total Length:

25.00 ft

Total Volume:

326.787 bbl

0

Num Fluid Samples: 0

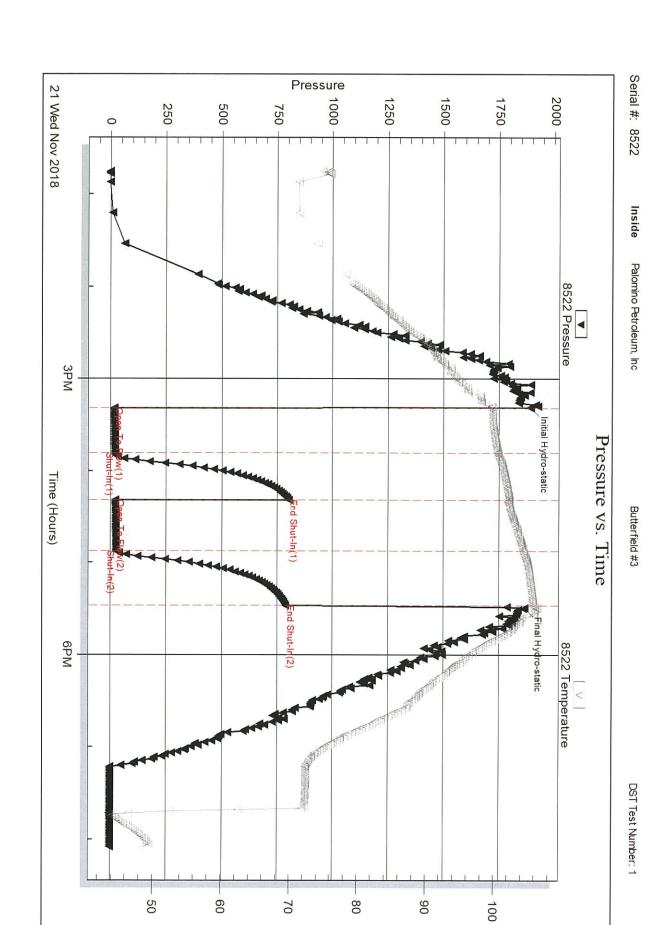
Num Gas Bombs: Laboratory Location: Serial#:

Laboratory Name:

Recovery Comments:

Trilobite Testing, Inc

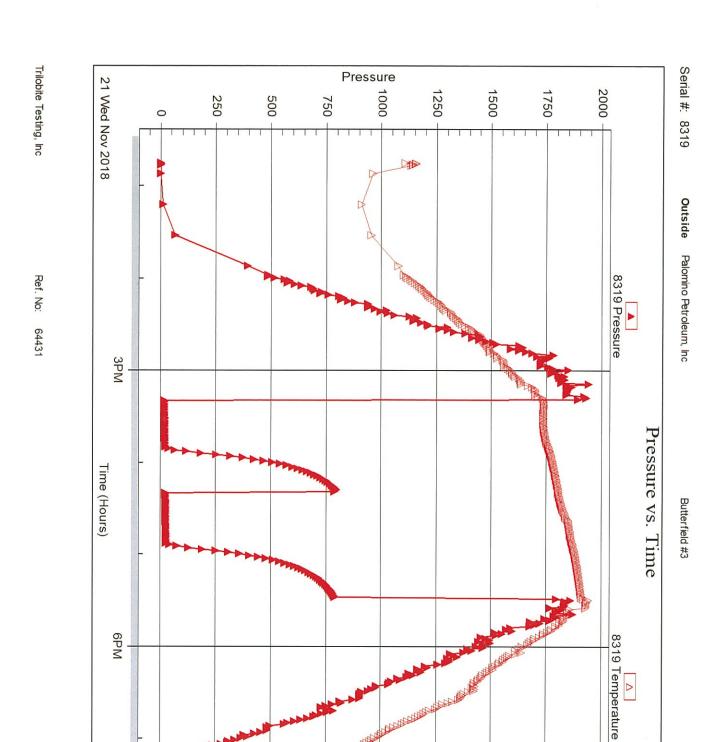
Ref. No: 64431



Temperature

Trilobite Testing, Inc

Ref. No: 64431



DST Test Number: 1

- 110

90

100

- 50

60

70

80

Temperature



Prepared For:

Palomino Petroleum, Inc

4924 SE 84th St. Newton, KS 67114

ATTN: Andrew Stenzel

Butterfield #3

11-14s-26w Gove,KS

Start Date: 2018.11.22 @ 10:37:00 End Date: 2018.11.22 @ 19:09:00 Job Ticket #: 64432 DST #: 2

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



Palomino Petroleum, Inc.

Butterfield #3

4924 SE 84th St. Newton, KS 67114

Job Ticket: 64432

11-14s-26w Gove, KS

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2018.11.22 @ 10:37:00

GENERAL INFORMATION:

Time Tool Opened: 14:21:45

Time Test Ended: 19:09:00

Formation:

LKC K-L

Deviated:

Interval:

Total Depth:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Bradley Walter

Unit No:

2497.00 ft (KB)

Reference Elevations:

2488.00 ft (CF)

Hole Diameter:

4070.00 ft (KB) (TVD) 7.88 inches Hole Condition: Good

4009.00 ft (KB) To 4070.00 ft (KB) (TVD)

KB to GR/CF:

9.00 ft

Serial #: 8522 Press@RunDepth: Inside

20.39 psig @

4010.00 ft (KB)

2018.11.22

Capacity: Last Calib.:

8000.00 psig 2018.11.22

Start Date: Start Time:

2018.11.22 10:51:05 End Date: End Time:

19:22:59

Time On Btm:

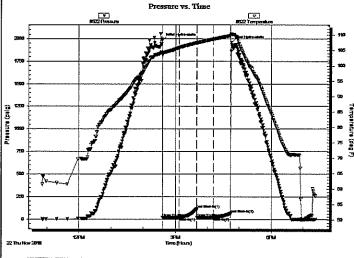
2018.11.22 @ 14:35:30

Time Off Btm:

2018.11.22 @ 16:45:00

TEST COMMENT: 30- IF: Surface blow.

30- ISI: No return. 30- FF: No blow. 30-FSI: No return.



		PI	RESSUR	RE SUMMARY
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1983.90	104.40	Initial Hydro-static
	1	17.90	103.44	Open To Flow (1)
	32	19.49	105.93	Shut-In(1)
3	64	114.45	107.51	End Shut-In(1)
Tamantatur	65	19.16	107.40	Open To Flow (2)
	96	20.39	108.71	Shut-In(2)
(den F	128	64.07	109.85	End Shut-in(2)
٥	130	1958.22	110.41	Final Hydro-static

Recovery				
Length (ft)	Description	Volume (bbi)		
10.00	Mud 100m	130.71		
Recovery from r	milijele tests			

	Gas Rates					
Choke (inches) Pressure (psig) Gas Ra	1 ' ' 1		Gas Rate (Mcf/d)			

Trilobite Testing, Inc

Ref. No: 64432



Palomino Petroleum, Inc.

Butterfield #3

11-14s-26w Gove,KS

4924 SE 84th St. New ton, KS 67114

Job Ticket: 64432

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2018.11.22 @ 10:37:00

GENERAL INFORMATION:

Time Tool Opened: 14:21:45

Time Test Ended: 19:09:00

Formation:

LKC K-L

Deviated:

Interval:

Nο Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Bradley Walter

Unit No:

78

4009.00 ft (KB) To 4070.00 ft (KB) (TVD)

Total Depth: Hole Diameter:

4070.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

Reference Elevations:

2497.00 ft (KB)

2488.00 ft (CF)

KB to GR/CF:

9.00 ft

Serial #: 8319 Press@RunDepth: Outside

TEST COMMENT: 30- IF: Surface blow.

psig @

4010.00 ft (KB)

Capacity: Last Calib.: 2018.11.22

8000.00 psig

Start Date:

2018.11.22

End Date:

19:22:59

2018.11.22

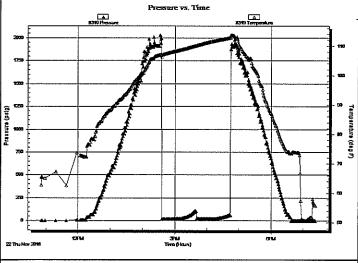
Start Time:

10:51:05

End Time:

Time On Btm: Time Off Btm:

30- ISI: No return. 30- FF: No blow. 30-FSi: No return.



	P	RESSUF	RE SUMMARY
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery Description Length (ft) Volume (bbl) 10.00 Mud 100m 130.71 * Recovery from multiple tests

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

Trilobite Testing, Inc.

Ref. No: 64432



TOOL DIAGRAM

Palomino Petroleum, Inc.

Butterfield #3

4924 SE 84th St. New ton, KS 67114

Job Ticket: 64432

11-14s-26w Gove, KS

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2018.11.22 @ 10:37:00

Tool Information

Drill Pipe Above KB:

Depth to Top Packer:

Drill Collar:

Drill Pipe: Length: 3885.00 ft Diameter: Heavy Wt. Pipe: Length:

Length:

0.00 ft Diameter: 116.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 116.00 inches Volume: 1516.29 bbl

54.50 bbl 0.00 bbl Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb

Total Volume: 1570.79 bbl

Weight to Pull Loose: 60000.00 lb 0.00 ft

Tool Chased

String Weight: Initial 45000.00 lb

4009.00 ft

19.00 ft

Depth to Bottom Packer: Interval between Packers:

fţ

61.00 ft

Final 45000.00 lb

Tool Length: Number of Packers: 88.00 ft

2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3983.00		
Shut In Tool	5.00		Fluid	3988.00		
Hydraulic tool	5.00			3993.00		
Jars	5.00			3998.00		
Safety Joint	2.00			4000.00		
Packer	5.00		Inside	4005.00	27.00	Bottom Of Top Packer
Packer	4.00			4009.00		
Stubb	1.00			4010.00		
Recorder	0.00	8522	Inside	4010.00		
Recorder	0.00	8319	Outside	4010.00		
Perforations	24.00			4034.00		
Change Over Sub	1.00			4035.00		
Drill Pipe	31.00			4066.00		
Change Over Sub	1.00			4067.00		
Bullnose	3.00			4070.00	61.00	Bottom Packers & Anchor

Total Tool Length:

88.00

Trilobite Testing, Inc

Ref. No: 64432



FLUID SUMMARY

0 deg API

0 ppm

Palomino Petroleum, Inc

11-14s-26w Gove, KS

4924 SE 84th St. New ton, KS 67114 Butterfield #3 Job Ticket: 64432

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2018.11.22 @ 10:37:00

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

9.00 lb/gal 64.00 sec/qt

Viscosity: Water Loss:

6.39 in³ Resistivity: ohm.m

Salinity: Filter Cake: 3100.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m	130,715

Total Length:

10.00 ft

Total Volume:

130.715 bbl

0

Num Fluid Samples: 0

Num Gas Bombs:

Serial#:

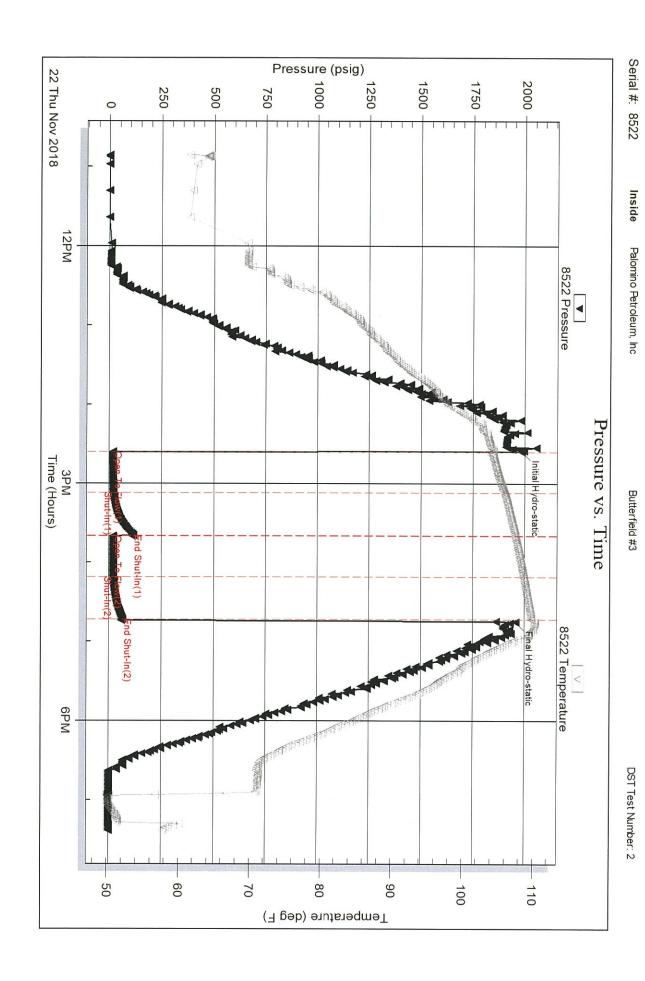
Laboratory Name:

Recovery Comments:

Laboratory Location:

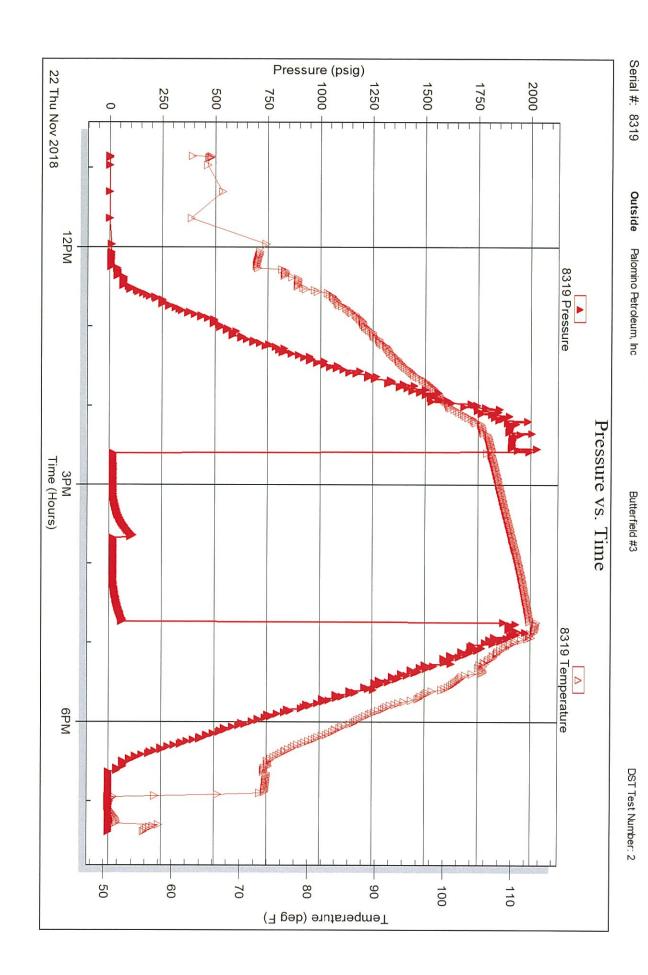
Trilobite Testing, Inc.

Ref. No: 64432



Trilobite Testing, Inc

Ref. No: 64432



Trilobite Testing, Inc

Ref. No: 64432

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

Test Ticket

NO. 64431

77 K M					
Well Name & No. Bulterfield #3		Test No		Date 11/2//20	2
Company Palomind Peter	olern Inc,	Elevation	2497	KB_ <u>2488</u>	GL
Address 4924 SE 84th St Ma	ewton, Ks	67114			
Co. Rep/Geo. Andred Stenze		Rig_WW	22		
	_Rge26&	co. <u>Gove</u>		State KS	
Interval Tested 3924 - 3990	Zone Tested	LKC H&I			
Anchor Length 641	Drill Pipe Run	379	۷	Mud Wt 9, 1	
Top Packer Depth 3921	Drill Collars Rui	n	,	VIs65	
Bottom Packer Depth 3926	Wt. Pipe Run	Ø	, 	wL	
Total Depth 3990	Chlorides	2200 ppm	System	LCM	
Blow Description IF 1 blow					
ISE No return.					
FF Suitace blood	<u>)</u>				
PSI No hetom.					
Rec 25 Feet of MIN		%gas	%oil	%water 10d	%mud
Rec Feet ofO.	1 speks	%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%waler	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Total	_ Gravity	_APIRW@	* _F		ppm
(A) Initial Hydrostatic /5°(3	⊠ Test1050			cation	ppiii
(B) First Initial Flow	Jars 250			1245	
(C) First Final Flow	Safety Joint	75	T-Open_	1527	
(D) Initial Shut-In	Circ Sub W/c			1727	
(E) Second Initial Flow 22	☐ Hourly Standby		T-Out	2006	
(F) Second Final Flow2 &	Mileage 76		Commer	nts	
(G) Final Shut-In 788	•	100 101			
(H) Final Hydrostatic 1868					
				ed Shale Packer	
Initial Open				ed Packer	
Initial Shut-In30				Copies	
Final Flow 30			Sub Total		·
Final Shut-In			Total		
	Sub Total 1505		WIP/DST	Disc't	
Approved By	-	ur Representative			
		- · ·	7. Photograms	and the second s	

Tritobite 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.



Test Ticket

NO. 64432

1515 Commerce Parkway • Hays, Kansas 67601

Well Ivalie a No.	#3			Date	2/208
Company talomino Petrolegia	1 1	_ Elevation	2497	кв <u>449</u>	ਨੂer
	Mewton, Ks	67114	. /		
Co. Rep/Geo. Andray Stenzel			VW 22		
Location: SecTwp14 S_	_Rge <i>ZL_w</i> (Co. <u> </u>	v e	State _ <u>^</u>	<u> </u>
Interval Tested 4009 - 4070)	Zone Tested <u>(</u>	to K	<u>-L</u>		
Anchor Length	Drill Pipe Run	3885	· · · · · · · · · · · · · · · · · · ·	Mud Wt 9,0	
Top Packer Depth 4004	Drill Collars Run	116	<u></u>	Vis 64	
Bottom Packer Depth 4009	Wt. Pipe Run	<u>Or</u>		wl <u>4</u>	
Total Depth 4070	Chlorides31	<i>ОО</i> pp	m System	LCM 3#	
Blow Description IF Surface bl	Nal	·			
ISI No extru	1				
FF No blad				Hiduna	
PSI No retur	a				
Rec		%gas	%oil	%water	100 %mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water_	%mud
Rec Total BHT	Gravity AP	I RW	.@	Chlorides	ppm
(A) Initial Hydrostatic 1984	⊠ _Test 1150		T-On L	ocation 089	5
(B) First Initial Flow 18	250		T-Start	ed /03	+
(C) First Final Flow	Salety Joint 75		T-Oper	1435	<u> </u>
(D) Initial Shut-In 114	De Circ Sub M/c			d	
(E) Second Initial Flow 9	Hourly Standby			1923	
(F) Second Final Flow	Mileage 120Kz			ents $\frac{R/\nu}{100}$	
(G) Final Shut-In	☐ Sampler			0730 11/	24
(H) Final Hydrostatic 1958	☐ Straddle			ined Shale Packer_	
	☐ Shale Packer			ined Shale Fackerined Packer	
Initial Open	☐ Extra Packer				
Initial Shut-In 30 Final Flow 30 Final Shut-In 30	☐ Extra Recorder			tra Copies tal0	
Final Flow	☐ Day Standby			1735	
Final Shut-In	☐ Accessibility			ST Disc't	
	Sub Total 1735		/.	7 1	,
Approved By	Our Re	presentative_			

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 indiffectly, 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 all cost by the party for whom the test is made.



(785) 798-3400

Andrew Stenzel Geologist

Ness City, Kansas



Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Butterfield #3

API: 15-063-22338-00-00

Location: NW-NE-SE-NE Sec. 11-14-26W

License Number: 30742

Spud Date: 11/15/18

Surface Coordinates: 1403 FNL & 559 FEL

Region: KANSAS Drilling Completed: 11/24/18

Bottom Hole

Coordinates:

Ground Elevation (ft): 2487

Logged Interval (ft): 3600

To: TD

K.B. Elevation (ft): 2497 Total Depth (ft): 4466

Formation: MISSISSIPPIAN

Type of Drilling Fluid: Mud-Co Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Palomino Petroleum, Inc.

Address: 4924 SE 84th St.

Newton, KS 67114

GEOLOGIST

Name: Andrew Stenzel

Company: Petroleum Geologist

Address: 501 S. Franklin

Ness City, KS 67560

Drilling Report

DAILY DRILLING REPORT:

11/15/18 Moved in rig, rigged up

11/16/18 Spudded at 12:00 am

11/17/18 Drilling @ 1099'

11/18/18 Drilling @ 2321'

11/19/18 Tripping out for button bit @ 3500'

11/20/18 Circulating @ 3886'

11/21/18 Drilling @ 3968', DST #1

11/22/18 Tripping out for DST #2, DST #2

11/23/18 Drilling @ 4223'

11/24/18 Ran electric logs, ran casing for SWD

Services

RIG: WW Drilling, Rig #22

MUD: MUDCO

LOGS: Gemini Wireline: CNDL, PE, DIL, ML TESTER: Trilobite Testing

Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing @ 202'

PRODUCTION Casing: Ran 51 jts new 5 1/2", 14# casing @ 2112'.

Formation Tops

Sample Tops	3	LogTops		
Anhy.	1960 (+537)	Anhy.	1957 (+540)	
Base Anhy.	2005 (+492)	Base Anhy.	1998 (+499)	
Heebner	3742 (-1245)	Heebner	3746 (-1249)	
Lansing	3779 (-1282)	Lansing	3784 (-1287)	
Muncie Cr	3927 (-1430)	Muncie Cr	3934 (-1437)	
Stark Sh	4011 (-1514)	Stark Sh	4015 (-1518)	
BKC	4064 (-1567)	BKC	4066 (-1569)	
Marmaton	4099 (-1602)	Marmaton	4091 (-1594)	
Pawnee	4100 (-1703	Pawnee	4212 (-1715)	
Ft. Scott	4273 (-1776)	Ft. Scott	4275 (-1778)	
Cher. Sh.	4296 (-1799)	Cher. Sh.	4296 (-1799)	
Miss.	4369 (-1772)	Miss.	4376 (-1879)	
RTD	4466 (-1969)	LTD	4471 (-1974)	



Palomino Petroleum, Inc.

11 14s 26w Gove, Ks Butterfield #3

4924 SE 84th St. Newton, Ks 67114

Job Ticket: 64431

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2018.11.21 @ 12:45:00

GENERAL INFORMATION:

Formation:

LKC- H&I

Deviated:

Interval:

No Whipstock ft (KB)

Time Tool Opened: 15:19:00 Time Test Ended: 20:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: **Bradley Walter**

Unit No:

3926.00 ft (KB) To 3990.00 ft (KB) (TVD)

Reference Bevations:

2497.00 ft (KB)

Total Depth:

3990.00 ft (KB) (TVD)

2488.00 ft (CF)

Hole Diameter:

KB to GR/CF:

9.00 ft

7.88 inchesHole Condition: Good

Serial #: 8522

Press@RunDepth:

Inside

25.67 psig @ 2018.11.21

3927.00 ft (KB) End Date:

2018.11.21

Capacity:

8000.00 psig

Start Date: Start Time:

12:45:05

End Time:

20:05:29

Last Calib.: Time On Blm 2018.11.21

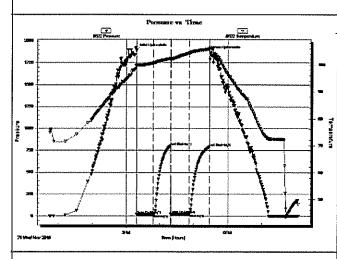
Time Off Blrn:

2018.11.21 @ 15:18:30 2018.11.21 @ 17:29:30

TEST COMMENT: 30- IF: 1/2" blow.

30- ISt: No return.

30- FF: Surface blow. 30- FSI; No return



PRESSURE SUMMAR

	F1	RESSUR	CE SUMMART	
Time	Pressure	Temp	Annotation	
(Mn.)	(psig)	(deg F)		
0	1893.24	99.88	Initial Hydro-static	
1	17.09	99.26	Open To Flow (1)	
30	20.99	100,61	Shut-In(1)	
61	801.28	102.33	End Shut-In(1)	
61	21.68	101.85	Open To Flow (2)	
94	25.67	104.39	Shut-In(2)	
130	787.81	105.87	End Shut-In(2)	
131	1869.20	106.46	Final I-lydro-static	
			-	

Recovery

Length (ft)	Description	Volume (bbi)
25.00	Mud 100m (oil speks)	326.79

Gas Rates

Chole (inches) Pressure (psig) Gas Rate (Mckd)

Trilobite Testing, ho

Ref. No: 64431

Printed: 2018.11.22 @ 21:59:01



Palomino Petroleum, Inc.

11 14s 26w Gove, Ks

4924 SE 84th St. Newton, Ks 67114

Butterfield #3 Job Ticket: 64432

DST#:2

ATTN: Andrew Stenzel

Test Start: 2018.11.22 @ 10:37:00

GENERAL INFORMATION:

Formation:

LKC K-L

Deviated:

No Whipstock: ft (KB)

Time Tool Opened: 14:21:45 Time Test Ended: 19:09:00

4009.00 ft (KB) To 4070.00 ft (KB) (TVD)

Total Depth:

4070.00 ft (KB) (TVD)

Hole Diameter:

Interval:

7.88 inchesHole Condition; Good

Test Type:

Conventional Bottom Hole (Reset)

Tester: **Bradley Walter**

Unit No:

Reference Bevations:

2497.00 ft (KB)

2488.00 ft (CF)

KB to GR/CF:

9.00 ft

Serial #: 8522 Press@RunDepth: Inside

20.39 psig @

4010.00 ft (KB)

End Date:

2018.11.22

Capacity: Last Calib.: 8000.00 psig

2018.11.22 Time On Btm:

Start Date: Start Time:

2018.11.22 10:51:05

End Time:

19:22:59

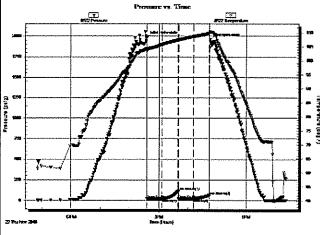
Time Off Blim

2018.11.22 @ 14:35:30

2018.11.22 @ 16:45:00

TEST COMMENT: 30- IF: Surface blow.

30- ISI: No return. 30- FF: No blow. 30-FSI: No return.



	PRESSURE SUMMARY				
Ī	Time	Pressure	Temp	Annotation	
	(Mn.)	(psig)	(deg F)		
	0	1983.90	104.40	Initial Hydro-static	
	1	17.90	103.44	Open To Flow (1)	
ı	32	19.49	105.93	Shut-In(1)	
-4	64	114.45	107.51	End Shut-h(1)	
176	65	19.16	107.40	Open To Flow (2)	
(i les) enterestut	96	20.39	108.71	Shut-In(2)	
3	128	64.07	109.85	End Shut-In(2)	
3	130	1958.22	110.41	Final Hydro-static	
				ŀ	
- 1					

	Recovery	
Langth (fl)	Description	Volume (bbi)
10.00	Mud 100m	130.71
Recoveryfromn	multiple lests	•

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcfd)

Trilobite Testing, Inc

Ref. No: 64432

Printed: 2018.11.22 @ 21:57:39

