KOLAR Document ID: 1427600

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. xx.xxxxx) (e.gxxx.xxxxxx) Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
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:
	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 #:	
EOR Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
GOVV Territt #.	Lease Name: License #:
Canad Date on Date Decembed TD Completing Date on	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or 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 Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II Approved by: Date:

KOLAR Document ID: 1427600

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	rpS	S. R	Eas	st West	County:					
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests (Attach Addit)		Yes No		Lo		n (Top), Depth a		Sample
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No						
			Rep	CASING	RECORD [Nev		on, etc.		
Purpose of St	tring	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		<u>'</u>	
Purpose: Perforate		Depth Top Bottom	Тур	Type of Cement # Sacks Use			red Type and Percent Additives			
Protect Ca										
Plug Off Z										
Did you perform Does the volume Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Produ Injection:	ction/Injectio	n or Resumed P	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>		
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			DN INTERVAL: Bottom
Vented		Used on Lease		Open Hole		Dually (Submit A		nmingled nit ACO-4)	Тор	BOLLOTTI
,	ed, Submit AC							·		
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)	
TUBING RECORI	D: S	Size:	Set A	: -	Packer At:					

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	RIVERSIDE-CAMBRON 1
Doc ID	1427600

All Electric Logs Run

Radiation Guard
Oual Induction
/licro
Sonic
Compensated Density/Neutron
Oual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	RIVERSIDE-CAMBRON 1
Doc ID	1427600

Tops

Name	Тор	Datum
Anhy.	2064	(+ 589)
Base Anhy.	2100	(+ 553)
Heebner	3894	(-1241)
Lansing	3934	(-1281)
Stark Sh.	4179	(-1526)
ВКС	4236	(-1583)
Marmaton	4285	(-1632)
Pawnee	4374	(-1721)
Ft. Scott	4434	(-1781)
Cherokee Sh.	4457	(-1804)
Miss.	4535	(-1882)
LTD	4722	(-2069)

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	RIVERSIDE-CAMBRON 1
Doc ID	1427600

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement	Type and Percent Additives
Surface	12.250	8.625	23	854	Common	2% gel. 3% c.c.
Production	7.875	5.5	14	4719	SMD/EA-2	2% gel. 3% c.c.



KEWII IU

MAIN OFFICE

QES Pressure Pumping LLC Dept:970 P.O.Box 4346 Houston,TX 77210-4346

P.O.Box884 Chanute,KS 66720 620/431-9210,1-800/467-8676 Fax 620/431-0012

Invoice# 813923

PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET NEWTON KS 67114-8827 USA		AUU 25 2018 RIVI	ERSIDE-CAMBROI	N 1	
Part No	Description	======================================	 Unit Price D	======== iscount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	30.000	1,050.00
CE0002	Equipment Mileage Charge - Heavy Equipment	35.000	7.1500	30.000	175.18
CE0710	Cement Delivery Charge	1.000	1,098.2100	30.000	768.75
CC5828	Lite-Weight Blend IV (65:35:6), 3% CaCl	250.000	20.0000	30.000	3,500.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	150.000	24.0000	30.000	2,520.00
CC6075	Celloflake	63.000	3.0000	30.000	132.30
CP8228	8 5/8" Wooden Plug	1.000	165.0000	30.000	115.50
			S	Subtotal	11,802.46
			Discounted A	Amount	3,540.74
			SubTotal After D	iscount	8,261.72
			Amount Due	12,384.47 If paid	d after 09/21/18
		=======================================	==========		=======:
				Tax:	407.41
	=======================================			Total:	8,669.14



11396

TOET NUMBER 55265	
LOCATION Calla US	*****
FOREMAN Miles Show	

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

620-431-92	10 or 800-467-867	6		CEMEN	T	INVO	64101514	ど
DATE	CUSTOMER#	WELL	NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
8-21-18	6285	Riverside	- Cambra	#/	19	16 8	260	Ness
CUSTOMER	o Petroleu			Utica US	TDUOV #	200/50		
Palomin MAILING ADDRE	ESS .	t jilling.		wastethy	TRUCK#	DRIVER	TRUCK#	DRIVER
4924 SE	24th			4 3/4 10	520/T-120	Ne: W	7 . —	
CITY		STATE	ZIP CODE	W.S	703	m/ad		+
Newton		Ks	67114-	8827	205	1 Jiles Va		
JOB TYPE S 4	-694	HOLE SIZE /	2.25"	HOLE DEPTH	854'	CASING SIZE &	WEIGHT 83	" 234
CASING DEPTH	f53'	DRILL PIPE		TUBING			OTHER	
SLURRY WEIGH		SLURRY VOL	84/1.36	WATER gal/s	k	CEMENT LEFT	in CASING 30	/
DISPLACEMENT	52615	DISPLACEMEN	T PSI SUD	MIX PSI		RATE		
REMARKS:	ately mas	Long nel	L+ 4000	wad.	Alex Box	#2 (ir	culate Casa	àc
M. 200	sx (to we	ight blood =	W 65/	35 poz 6	35.1 4 # Pl	38 celem	taledin	w.14
Sourfage bly	and II Ch.	55 Alemen	+ 4/32	Edein 2	350 Shula	lau Rela	escolus de	whie
52615	water Shut	in Ceme	ent dil	Corculat	10 5/5 to	eit	, , , , ,	
		***************************************			***************************************			
V								444
				······			1/	
							1	
						Thanks M.	les flow	***************************************
ACCOUNT			I					
CODE	QUANITY	or UNITS	DE	SCRIPTION of	SERVICES or PRO	DUCT	UNIT PRICE	TOTAL
CE0450 .)	PUMP CHARG	E		***************************************	1500.00	1500,00
CECOOZA		35	MILEAGE				7.15	250, 25
(EU7/00	17.9	3 Tons	ton mil	es, dolo	ex		1.75	1098.21
CC5828		250 54	Cita-We	sht blend	I		20,00	5000.00
CC 5871		15U5x	Surface	Lerd II			24.00	3600.00
C60750		3#	Collofla	Ko			3.00	189.00
CP8228	•		85%" We	when flue	i		165,00	165 cc
					***************************************		Scholal	11802,46
						1855	308 dixcornt	3540.23
				***************************************			Subtotal	8261.73

					***************************************	-		
								8.
							SALES TAX	407.41
Ravin 3737	01						ESTIMATED	
AUTHORITA	(It	11					TOTAL	8669.14
AUTHORIZTION	You - C	m		TITLE			DATE	***************************************

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



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



Invoice

DATE	INVOICE#	
8/30/2018	31766	

BILL TO	
Palomino Petroleum Inc.	RECEIVED
4924 S E 84th Street	SEP 04 2018
Newton, KS 67114-8827	

- Acidizing
- Cement
- Tool Rental

TERMS	Well N	lo.	Lease	County	Contractor	We	II Type	W	ell Category	Job Purpos	е	Operator
Net 30	#1		Riverside-Ca	Ness	W & W Drilling #2		Oil	D	evelopment	Cement 5 1/2 L	ю	David K.
PRICE	REF.			DESCRIPT	ION		QTY	1	UM	UNIT PRICE		AMOUNT
575D 578D-D 409-5 403-5 406-5 407-5 404-5 419-5 325 284 283 285 276 330 290 221 281 583D		Pun 5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1	R-1 cele ft Multi-Density (et elug & Baffle hoe With Auto de Rental Standard (MID)	Fill			5 500 50 50	Lb(s) Lb(s) Sacks Gallon(s) Gallon(s)	5.00 1,300.00 85.00 275.00 250.00 325.00 2,500.00 13.00 35.00 0.20 4.50 2.50 16.25 42.00 25.00 1.75 0.85		200.00 1,300.00 935.00T 275.00T 250.00T 325.00T 2,500.00T 1,300.00T 175.00T 100.00T 225.00T 2,031.25T 84.00T 100.00T 750.00T 393.75 388.45 11,657.45 609.39
We A	pre	cia	ite Your I	Busines	5!		Total					\$12,266.84



CITY, STATE, ZIP CODE	ADDRESS	CHARGE TO:

DATE SIGNED TIME SIGNED	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR IC START OF WORK OR DELIVERY OF GOODS.	LIMITED WARRANTY provisions.	the terms and conditions on the reverse side hereof which include, but are not limited to PAYMENT RELEASE INDEMNITY and			419	HOH	407	406	403	409	88	575	FERENCE SECONDARY REFERENCE/	NACICE INSTITUTE INCIDENTIAL PROPERTY IN THE P		3. WEIL TYPE	Z. TICKET TYPE	SERVICE LOCATIONS WELL/PROJECT NO WELL/PROJECT NO	Services, Inc.
○ □ A.M.		חומ.	ges and agrees to reof which include,			_	-	-		_	_	-	_	ACCOUNTING LOC ACCT DF	INVOICE INSTRUCTIONS		(M4(M)	CONTRACTOR		CITY, STA
	P.O. BOX 466 NESS CITY, KS 67560	SWIFT SERVICES, INC.	REMIT PAYMENT TO:			Roberting Head Rental	Port Coller	Insert Float Spe w/ Aulo		Coment Besket	Turbolizes	hanac-	MILEAGE THE 112	DESCRIPTION	(Development Coment 51) Longs		RIG NAME/NO	4.4	CITY, STATE, ZIP CODE
ARE YOU SATISFIED WITH OUR SERVICE? CUSTOMER DID NOT WISH TO RESPOND	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	DRMED	STIRVEY	_	5/2 lin	512 in	Ell 5% in	5/2 11/4	5/2 in	51/2 in 1		10	QTY. U/M QTY.	L	WELL PERMIT NO.	WACT Location	ED DELIVERED	STATE CITY (1)	
TOTAL JANUARY	18 100 Jacob	1165145	PAGE TOTAL \$700	DISASSEE		Ja 200 1 200 1	1500 ° 2500 ° 0	ca 325 0 325 00	250 ° 250 °	a 275 00 375 00	00 250 00 28	30) 00 130) 00 130 W	20 Jan 30 100 100 100 100 100 100 100 100 100	U/M PRICE AMOUNT		Utica, 3w Ha, Winto		NO.	DATE OWNER	PAGE

SWIFT OPERATOR David Kuzhn

APPROVAL

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

Thank You!

ALL LANGES AND ASSESSED.	8 16
· Alderstander	Send
	11 (84)

PO Box 466

TICKET CONTINUATION

No. 3176/2

	. 583	581		• Andrews of the second					H-1 - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		<i>is</i> .0	J&I	1221	<i>)9</i> 0	330	27%	28	283	284	325	PRICE	Service	
		The state of the s			The Windowski						The state of the s										SECONDARY REFERENCE/ PART NUMBER	. lac	
																					CE/ ACCOUNTING	Off: 785-798-2300	PO Box 466
	CHARGE TOTAL WEIGHT 2000 LOADED MILES HO	HARGE									1 Back 1 Decom	M 61.4	Line KO		SMD Compt	Flouris	CFR-1	Salt		Shandurd Coment (EA.2)	TIME DESCRIPTION	CUSTOMER PLANING PLANCEUM	
) TON MILES	CUBIC FEET						-								5	%	1%	5 %		ar. w	Riverside-Cambron	
CONTINUATION TOTAL	57	225							 		100	ンロ	1 20			— ┉	181105		5 15/5	\ ⁄	any.] ww	DATE	
IONITOTAL 5672, 45	00/85 388 45	393										25	$ \omega $	84	1 ²⁵ 2031	125	SO 225	100 l		1300	PRICE AMOUNT	** 8-30-18 PAGE 0°2	31/62

DATE PAGE
830-18
TICKET NO.#31766 SWIFT Services, Inc. PAGE NO. JOB LOG WELL NO JOB TYPE TICKET NO.#317

S12" Longstring TICKET NO.#317

DESCRIPTION OF OPERATION AND MATERIALS CUSTOMER Palomino Patroleum PRESSURE (PSI)
TUBING CASING CHART TIME RATE (BPM) VOLUME (BBL) (GAL) T C 1300 51/2" 14# on location RTD-4720' LTD-4722'
TP-4721' SJ-4143.42'
P.C.-64 2086' al-83 109 # 115 Turbos-4143454749 *11 + 13 +15 +17 +19 +63 Bushel - #64 1600 Start 51/2" 14# casing in well 1900 Drop Ball Circulate * Rotale * 2000 6/2 12 350 Pump 500 get Mud Flush 350 Pump 20 Ht KCL Flush 6/2 20 Plug RH- 30 sks 2015 200 mix 95 sks SMD 14 " Flo @ 12,5 ppg 100 mix 100 sks EA:2 @ 15,5 ppg 41/2 36 24 41/2 wash out Plans + Lines
Release Latch Down Plag 2040 61/2 100 Start Displacement - KCL in 1st Tank 250 Lift Pressure 6/2 v 85 61/2 113 800 Max Lift Pressure 2100 61/2 Land Latch Down Plug 114 Release Pressure * Plug Hold* wash up track 2130 Job Complete



P. O. Box 466

Ness City, KS 67560

Off: 785-798-2300



Invoice

DATE	INVOICE#	
9/12/2018	31774	

BILL TO	
Palomino Petroleum Inc.	RECEIVED
4924 S E 84th Street	SEP 1 7 2018
Newton, KS 67114-8827	

- Acidizing
- Cement
- Tool Rental

TERMS	Well No	o. Lease	County	Contractor	We	II Туре	W	ell Category	Job Purpos	е	Operator
Net 30	#1	Riverside-Ca	Ness	Express Well		Oil	D	evelopment	Cement 5 1/2 P	or	David K
PRICE	REF.		DESCRIPT	ION	Lenia Austria in India	QTY	· ′	UM	UNIT PRICE	<u> </u>	AMOUNT
575D 576D-D 330 276 290 105 581D 583D		Mileage - 1 Way Pump Charge - Deep Swift Multi-Density Flocele D-Air Port Collar Tool Ren Service Charge Ceme Drayage Subtotal Sales Tax Ness Coun	Standard (MID tal With Man ent	OFt.) & Port Collars (CON II)			1 175 50 2 1	Job Sacks Lb(s) Gallon(s) Each	5.00 1,300.00 16.25 2.50 42.00 275.00 1.75 0.85		200.00 1,300.00 2,843.75T 125.00T 84.00T 275.00T 393.75 379.95 5,601.45 216.30
We A	pred	ciate Your I	Busines	s!				Total			\$5,817.75



CITY STATE ZID CODE	ADDRESS	CHARGE TO: CALOVAINO Para Com

TICKET 031774

	DATE SIGNED	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.	LIMITED WARRANTY provisions	the terms and conditions on the but are not limited to, PAYMEN	LEGAL TERMS: Customer her	283	185		THE PARTY OF THE P	TOS	290	27%	330	5760	575	PRICE SECONDAR PART	HEFERHAL LOCATION	4.	3.	2,	SERVICE LOCATIONS	Services, Inc.
	TIME SIGNED	STOMER'S AGENT PRIOR TO DS.	ਲ (the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	LEGAL TERMS: Clistomer hereby acknowledges and agrees to											SECONDARY REFERENCE/ ACCOUNTING PART NUMBER LOC ACCT DF	INVOICE INSTRUCTIONS		- Lindy	TICKET TYPE CONTRACTOR	WELL/PROJECT NO. LEASE	
	1		SWIFT SERVICES, INC.	REMIT PAYMENT TO:		Ç	Scarice Charac Coment			Port Collar Opening Tool Rank	D-Air	Florele	5 Y	Plum Charge - Port Collar	MILEAGE TH # 112	DESCRIPTION		Development Coment Sh. D.F.	vice	RIG NAME/NO.	COUNTY/PA	CITY, STATE, ZIP CODE
CUSTOMER DID NOT WISH TO RESPOND	1 2	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?		m -	WILLIAM (355CC)	1 225 46			al (5b'in)		21 OS 91 M	175 54		H(2) m	QTY. U/M QTY. U/M		+ Collar WELL PERMIT NO.	MACT Loration	SHIPPED DELIVERED TO	STATE CITY	
C1 18G	TOTAL 5717 AF	1.50 BH 30		PAGE TOTAL S601 45		00185 379 95	1 25 393 75		official and the second	275 00 275 00	12 0 CH	2 50 125-100	16 25 7843 75	1300 m	2000 a	UNIT AMOUNT	, ,	WELL LOCATION WELL LOCATION WELL LOCATION		ORDER NO.	DATE OWNER	PAGE OF

SWIFT OPERATOR Dawfol Kuchn

APPROVAL

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

Thank You!

PAGE NO. SWIFT Services, Inc. JOB LOG TICKET NO# 31774 CUSTOMER Palomino Petrodrum WELL NO. VOLUME (BBL) (GAL) PRESSURE (PSI)
JBING CASING RATE TIME DESCRIPTION OF OPERATION AND MATERIALS (BPM) T | C TUBING DCC21/8×54° P.C. - 2036 1230 1000 1235 200) mix 175 sks SMD 14 " Flo @ 11.2 ppg Circulate cement to surface - \$250 200 1240 1300 400 1305 Run 4 5/5 3/2 1320 25 *175 sks SMD /4 "Flo Total * *25 sks To Pit * Job Complete



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

2nd Open

Minutes: 30

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August

> 22 2018

DST #1 Formation: Toronto/Lans "A&B"

Time On: 11:55 08/22

Test Interval: 3914 -

Total Depth: 3985'

3985'

Time Off: 18:08 08/22

Time On Bottom: 14:00 08/22 Time Off Bottom: 16:00 08/22

Electronic Volume Estimate:

141'

1st Open Minutes: 30 Current Reading: 3.5" at 30 min

Max Reading: 3.5"

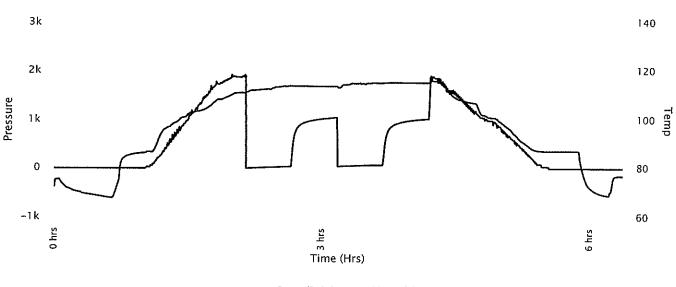
1st Close Minutes: 30 Current Reading: 0" at 30 min

Current Reading: 2.4" at 30 min Max Reading: 0"

2nd Close Minutes: 30 **Current Reading** 0" at 30 min

Max Reading: 2.4" Max Reading: 0"

Inside Recorder



- Press(Psig) - Temp(F)



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30VV County: GOVE

Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 22

2018

DST #1 Formation: Toronto/Lans "A&B" Test Interval: 3914 -

Total Depth: 3985'

3985'

Time On: 11:55 08/22

Time Off: 18:08 08/22

<u>Oil %</u>

0

Time On Bottom: 14:00 08/22 Time Off Bottom: 16:00 08/22

Recovered

Foot **BBLS** 125 0.6477712 Description of Fluid М

Gas %

0

Water % 0

Mud % 100

Total Recovered: 125 ft

Total Barrels Recovered: 0.6477712

Close / Final Close

Reversed Out	
NO	

Recovery at a glance

Initial Hydrostatic Pressure	1882	PSI	0.5				
Initial Flow	11 to 46	PSI	881				
Initial Closed in Pressure	1055	PSI	0.25				
Final Flow Pressure	49 to 73	PSI					
Final Closed in Pressure	1024	PSI	0				
Final Hydrostatic Pressure	1876	PSI				Recovery	
Temperature	116	°F		Gas 0%	Oil 0%	• Water 0%	• Mud
Pressure Change Initial	2.9	%		U76	U76	U76	100%



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 22 2018

DST #1 Formation: Toronto/Lans "A&B"

Test Interval: 3914 -

Total Depth: 3985'

3985'

Time On: 11:55 08/22

Time Off: 18:08 08/22

Time On Bottom: 14:00 08/22 Time Off Bottom: 16:00 08/22

BUCKET MEASUREMENT:

1st Open: Surface blow building to a 3 in. blow.

1st Close: No blow back.

2nd Open: Surface blow building to a 2 in. blow.

2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas .3% Oil 0% Water 99.7% Mud



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE

Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August

22 2018 **DST #1**

Formation: Toronto/Lans "A&B"

Test Interval: 3914 -

Total Depth: 3985'

3985'

Time On: 11:55 08/22

Time Off: 18:08 08/22

Time On Bottom: 14:00 08/22 Time Off Bottom: 16:00 08/22

Down Hole Makeup

Heads Up:

17.99 FT

Packer 1: 3909.14 FT

Drill Pipe:

3778.08 FT

121.48 FT

Packer 2: 3914.14 FT

ID-3 1/2

Top Recorder:

Weight Pipe: FT

3898.56 FT

ID-2 7/8

Bottom Recorder:

3953 FT

Collars:

Well Bore Size:

7 7/8

5/8"

ID-2 1/4

Surface Choke: 1"

Bottom Choke:

Test Tool: 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 70.86

Anchor Makeup

Packer Sub:

1 FT

Perforations: (top):

3 FT

4 1/2-FH

Change Over:

1 FT

Drill Pipe: (in anchor):

31.86 FT

ID-3 1/2

Change Over:

1 FT

Perforations: (below):

33 FT

4 1/2-FH



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE State: Kansas

Inc.

Lease: Karol Swart #1

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 22 2018

DST #1 Formation: Toronto/Lans "A&B" Test Interval: 3914 -

Total Depth: 3985'

3985'

Time On: 11:55 08/22 Time Off: 18:08 08/22

Time On Bottom: 14:00 08/22 Time Off Bottom: 16:00 08/22

Mud Properties

Mud Type: Chemical Weight: 8.8 Viscosity: 57 Filtrate: 6.0 Chlorides: 1,000 ppm



Test Complete

Lease: Karol Swart #1

Company: Palomino Petroleum, SEC: 20 TWN: 145, RNG: 30W County: GOVE

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August

23 2018

DST #2 Formation: Lans "C"

Test Interval: 3982 -

Total Depth: 4005'

4005

Time On: 00:18 08/23

Time Off: 05:25 08/23

Time On Bottom: 01:56 08/23 Time Off Bottom: 03:56 08/23

Electronic Volume Estimate:

49'

1st Open Minutes: 30 Current Reading:

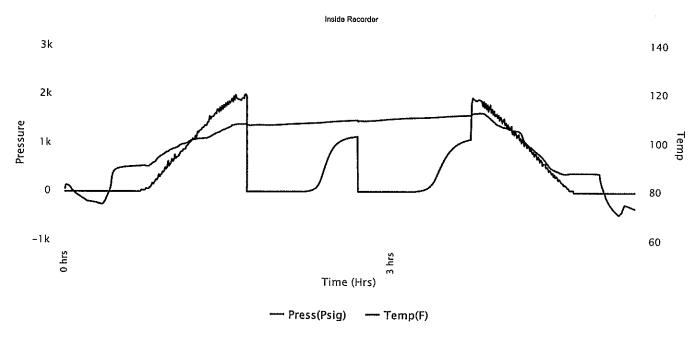
Inc.

1.6" at 30 min Max Reading: 1.6" Minutes: 30 Current Reading: 0" at 30 min

1st Close

0" at 30 min Max Reading: 0" 2nd Open Minutes: 30 Current Reading: 2nd Close Minutes: 30 Current Reading: 0" at 30 min

0" at 30 min 0" at 30 min Max Reading: 0" Max Reading: 0"





Company: Palomino Petroleum, SEC: 20 19WN: 145 RNG: 30W County: GOVE Inc.

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland Pool: Pool Ext Job Number: 218

Operation:

Test Complete

DATE

August

23

2018

DST #2

Test Interval: 3982 -

Total Depth: 4005'

4005'

Time On: 00:18 08/23

Formation: Lans "C"

Time Off: 05:25 08/23

Time On Bottom: 01:56 08/23 Time Off Bottom: 03:56 08/23

Recovered

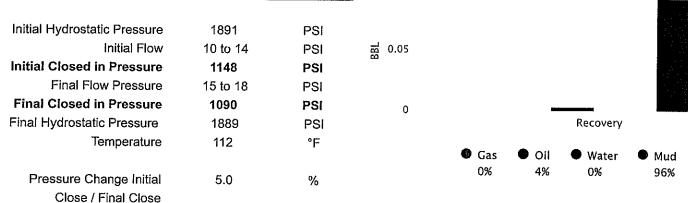
Foot **BBLS** Description of Fluid Oil % Gas % Water % Mud % 20 0.0984 SLOCM 0 4 0 96

Total Recovered: 20 ft

Total Barrels Recovered: 0.0984

Reversed Out NO

Recovery at a glance





Test Complete

DATE

August

23

2018

Company: Palomino Petroleum, SEC: 20 TYVN: 145 RNG: 30W County: GOVE Inc.

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Job Number: 218

Field Name: Butterfield-Overland

Pool: Pool Ext

Lease: Karol Swart #1

DST #2

Formation: Lans "C"

Test Interval: 3982 -

Total Depth: 4005'

4005'

Time On: 00:18 08/23

Time Off: 05:25 08/23

Time On Bottom: 01:56 08/23 Time Off Bottom: 03:56 08/23

BUCKET MEASUREMENT:

1st Open: Surface blow building to a 1 in. blow.

1st Close: No blow back. 2nd Open: Surface blow. 2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 4% Oil 0% Water 96% Mud



Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE Inc.

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

Operation: Test Complete

DATE

August

23

2018

Test Interval: 3982 -

Total Depth: 4005'

4005'

Time On: 00:18 08/23

Formation: Lans "C"

Time Off: 05:25 08/23

Time On Bottom: 01:56 08/23 Time Off Bottom: 03:56 08/23

Down Hole Makeup

Heads Up: 13.64 FT Packer 1: 3977 FT

Drill Pipe: 3841.59 FT

DST #2

Packer 2: 3982 FT

ID-3 1/2

Top Recorder: 3966.42 FT

Weight Pipe: 0 FT

Bottom Recorder: 3984 FT

ID-2 7/8

Collars: 121.48 FT Well Bore Size: 7 7/8

ID-2 1/4

1" Surface Choke:

Test Tool: 33.57 FT **Bottom Choke:** 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 23

Anchor Makeup

Packer Sub:

1 FT

Perforations: (top):

0 FT

4 1/2-FH

Change Over:

0 FT

Drill Pipe: (in anchor):

0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below):

22 FT

4 1/2-FH



Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE Inc.

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Job Number: 218

Field Name: Butterfield-Overland

Pool: Pool Ext

DATE

August

23

2018

Operation: Test Complete

DST #2

Formation: Lans "C"

Test Interval: 3982 -

Total Depth: 4005'

4005'

Time On: 00:18 08/23

Time Off: 05:25 08/23

Time On Bottom: 01:56 08/23 Time Off Bottom: 03:56 08/23

Mud Properties

Mud Type: Chemical Weight: 9.1 Viscosity: 57 Filtrate: 6.4 Chlorides: 2,100 ppm



Test Complete

Company: Palomino Petroleum, SEC: 20 1 V/N: County: GOVE Inc.

Lease: Karol Swart #1

SEC: 20 TV/N: 14S RNG: 30W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August

23 2018

Formation: Lans "D-F" **DST #3**

Test Interval: 4000 -

Total Depth: 4074'

4074

Time On: 13:25 08/23

Time Off: 18:59 08/23

Time On Bottom: 15:06 08/23 Time Off Bottom: 17:06 08/23

Electronic Volume Estimate:

25'

1st Open Minutes: 30 **Current Reading:**

.8" at 30 min Max Reading: .8"

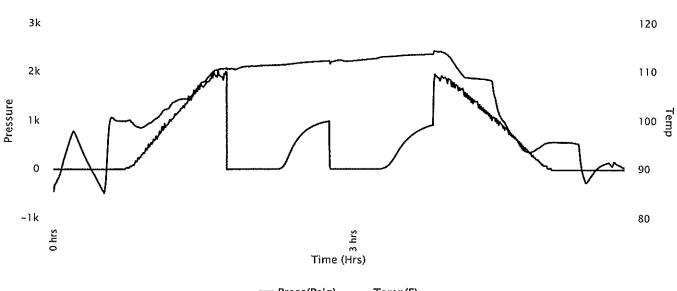
1st Close Minutes: 30 Current Reading: 0" at 30 min

Max Reading: 0"

2nd Open 2nd Close Minutes: 30 Minutes: 30 **Current Reading:** Current Reading: 0" at 30 min 0" at 30 min

Max Reading: 0" Max Reading: 0"

Inside Recorder



- Press(Psig) Temp(F)



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 148 RNG: 30W County: GOVE Inc.

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Lease: Karol Swart #1

Pool: Pool Ext Job Number: 218

Recovery at a glance

DATE August 23

2018

DST #3 Formation: Lans "D- Test Interval: 4000 -4074'

Total Depth: 4074'

Time On: 13:25 08/23

Time Off: 18:59 08/23

Time On Bottom: 15:06 08/23 Time Off Bottom: 17:06 08/23

Recovered

BBLS Description of Fluid Oil % <u>Foot</u> Gas % Water % Mud % 20 0.0984 SLOCM 0 1 0 99

Total Recovered: 20 ft

Total Barrels Recovered: 0.0984

NO	I	Reversed Out
	l	NO

0.1

	_	
	1	

Initial Hydrostatic Pressure 1955 **PSI** Initial Flow 11 to 19 PS! 威 0.05 Initial Closed in Pressure 1006 PSI Final Flow Pressure 22 to 27 **PSI** Final Closed in Pressure 927 **PSI** 0 Final Hydrostatic Pressure 1948 **PSI** Temperature 114 °F Pressure Change Initial 7.9 %

Close / Final Close

Recovery

Gas	Oil	Water	Mud
0%	1%	0%	99%



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE

August 23

2018

Formation: Lans "D-F" **DST #3**

Test Interval: 4000 -

Total Depth: 4074'

4074

Time On: 13:25 08/23

Time Off: 18:59 08/23

Time On Bottom: 15:06 08/23 Time Off Bottom: 17:06 08/23

BUCKET MEASUREMENT:

1st Open: Surface blow building to a 1/4 in. blow.

1st Close: No blow back. 2nd Open: Surface blow. 2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



Company: Palomino Petroleum, SEC: 20 TWN: 145,RNG: 30W County: GOVE Inc.

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

Operation: Test Complete

DATE

August

23

2018

DST #3

Formation: Lans "D-

Test Interval: 4000 -

Total Depth: 4074'

4074

Time On: 13:25 08/23

Lease: Karol Swart #1

Time Off: 18:59 08/23

Time On Bottom: 15:06 08/23 Time Off Bottom: 17:06 08/23

Down Hole Makeup

Heads Up:

27.18 FT

Packer 1: 3995.2 FT

Drill Pipe:

3873.33 FT

4000.2 FT Packer 2:

ID-3 1/2

Top Recorder:

3984.62 FT

Weight Pipe:

0 FT

Bottom Recorder:

4039 FT

ID-2 7/8

Well Bore Size:

7 7/8

5/8"

Collars: ID-2 1/4 121.48 FT

Surface Choke:

33.57 FT

Bottom Choke:

Test Tool: ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 73.8

Anchor Makeup

Packer Sub:

1FT

Perforations: (top):

3 FT

4 1/2-FH

Change Over:

1FT

Drill Pipe: (in anchor):

31.80 FT

ID-3 1/2

Change Over:

1 FT

Perforations: (below):

36 FT

4 1/2-FH



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE

August 23 2018

Formation: Lans "D-F" **DST #3**

Test Interval: 4000 -4074'

Total Depth: 4074'

Time On: 13:25 08/23 Time Off: 18:59 08/23

Time On Bottom: 15:06 08/23 Time Off Bottom: 17:06 08/23

Mud Properties

Mud Type: Chemical Viscosity: 62 Filtrate: 6.4 Chlorides: 2,600 ppm Weight: 9.2



Test Complete

Company: Palomino Petroleum, SEC: 20 DAN: 145-RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August

> 24 2018

DST #4 Formation: Lans "H-

Test Interval: 4110 -

Total Depth: 4207'

4207'

Time On: 08:44 08/24

Time Off: 14:24 08/24

Time On Bottom: 10:31 08/24 Time Off Bottom: 12:31 08/24

Electronic Volume Estimate:

22'

1st Open Minutes: 30 Current Reading:

.6" at 30 min Max Reading: .7"

1st Close Minutes: 30 Current Reading: 0" at 30 min

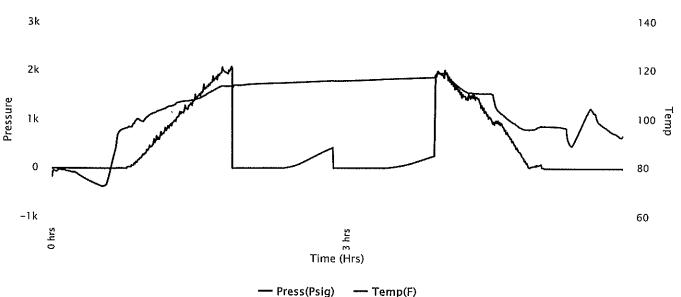
Max Reading, 0"

2nd Open Minutes: 30 **Current Reading:** 0" at 30 min

2nd Close Minutes: 30 Current Reading: 0" at 30 min

Max Reading: 0" Max Reading: 0"

Inside Recorder





Company: Palomino Petroleum, SEC: 20 I-WN: County: GOVE

Inc.

Lease: Karol Swart #1

SEC: 20 TWN: 14S RNG: 30W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

Operation: Test Complete

DATE

August

24

2018

DST #4

Formation: Lans "H-

Test Interval: 4110 -

Total Depth: 4207'

4207'

Time On: 08:44 08/24

Time Off: 14:24 08/24

Time On Bottom: 10:31 08/24 Time Off Bottom: 12:31 08/24

Recovered

BBLS Foot 10 0.0492

Initial Hydrostatic Pressure

Initial Closed in Pressure

Final Closed in Pressure

Final Hydrostatic Pressure

Final Flow Pressure

Description of Fluid M (trace oil)

Gas % 0

<u>Oil %</u> .3

Water % 0

Mud % 99.7

Total Recovered: 10 ft

Total Barrels Recovered: 0.0492

Initial Flow

Temperature

Reversed Out NO

0.05

0%

렸 0.025

0

PSI 434 **PSI** 16 to 19 PSI 269 PSI 1991 **PSI** 118 ۴

%

PSI

Pressure Change Initial

37.9

Recovery at a glance

Recovery Oil Gas

0.3%

Water 0%

Mud 99.7%

2007

12 to 16

Close / Final Close



Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE Inc.

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

Operation: Test Complete

DATE

August

24

2018

DST #4

Test Interval: 4110 -

Total Depth: 4207'

4207'

Time On: 08:44 08/24

Formation: Lans "H-J"

Time Off: 14:24 08/24

Time On Bottom: 10:31 08/24 Time Off Bottom: 12:31 08/24

BUCKET MEASUREMENT:

1st Open: Surface blow building to a 1/4 in. blow.

1st Close: No blow back. 2nd Open: No blow. 2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas .5% Oil 0% Water 99.5% Mud



Test Complete

Company: Palomino Petroleum, SEC: 20 19VN: County: GOVE

Inc.

Lease: Karol Swart #1

SEC: 20 TWN: 14S RNG: 30W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE

August 24

2018

DST #4 Formation: Lans "H-

Test Interval: 4110 -

Total Depth: 4207'

4207'

Time On: 08:44 08/24

Time Off: 14:24 08/24

Time On Bottom: 10:31 08/24 Time Off Bottom: 12:31 08/24

Down Hole Makeup

Heads Up:

13.28 FT

Packer 1:

4104.73 FT

Drill Pipe:

3968.96 FT

Packer 2:

4109.73 FT

ID-3 1/2

0 FT

Top Recorder:

4094.15 FT

Weight Pipe: ID-2 7/8

Bottom Recorder:

4180 FT

Collars:

121.48 FT

33.57 FT

Well Bore Size:

Bottom Choke:

7 7/8

5/8"

ID-2 1/4

Surface Choke: 1"

Test Tool: ID-3 1/2-FH

Jars

Safety Joint

Total Anchor:

97.27

Anchor Makeup Packer Sub:

1FT

Perforations: (top):

3 FT

4 1/2-FH

Change Over:

1FT

Drill Pipe: (in anchor):

63.27 FT

ID-3 1/2

Change Over:

1 FT

Perforations: (below):

28 FT

4 1/2-FH



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 14S RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

<u>DATE</u> August 24 2018

DST #4 Formation: Lans "H-

Test Interval: 4110 -

Total Depth: 4207'

4207'

Time On: 08:44 08/24

Time Off: 14:24 08/24

Time On Bottom: 10:31 08/24 Time Off Bottom: 12:31 08/24

Mud Properties

Mud Type: Chemical

Weight: 9.2

Viscosity: 62

Filtrate: 6.4

Chlorides: 2,600 ppm



Company: Palomino Petroleum, SEC: 20 TWN: 145 RNG: 30W County: GOVE Inc.

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

Operation:

Test Complete

DATE August

DST #5 Formation: Lans "K&L"

Lease: Karol Swart #1

Test Interval: 4200 -

Total Depth: 4290'

4290'

Time On: 00:13 08/25

Time Off: 05:43 08/25

Time On Bottom: 02:03 08/25 Time Off Bottom: 04:03 08/25

Electronic Volume Estimate:

25 2018

365'

1st Open Minutes: 30 **Current Reading:**

Minutes: 30 Current Reading: 0" at 30 min

1st Close

2nd Open Minutes: 30 **Current Reading:**

Current Reading: 11.0" at 30 min 0" at 30 min

14.9" at 30 min Max Reading: 14.9"

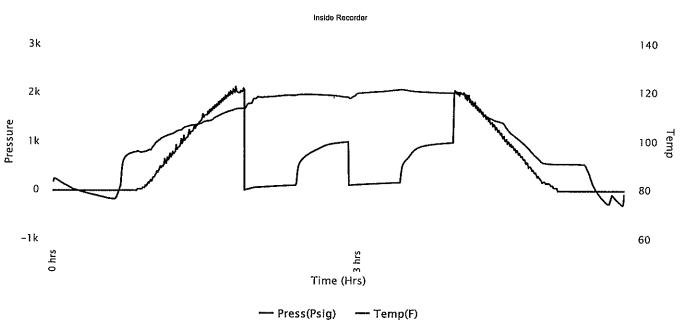
Max Reading: 0"

Max Reading: 11.0"

Max Reading: 0"

2nd Close

Minutes: 30





Test Complete

Company: Palomino Petroleum, SEC: 20 1448 RNG: 30W County: GOVE

Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25 2018

Formation: Lans "K&L" **DST #5** Test Interval: 4200 -Total Depth: 4290' 4290'

> Time On: 00:13 08/25 Time Off: 05:43 08/25

Time On Bottom: 02:03 08/25 Time Off Bottom: 04:03 08/25

2

0

BBL

Recovered

<u>Foot</u>	BBLS	Description of Fluid	Gas %	<u>Oil %</u>	Water %	Mud %
170	2.4191	HWCM (trace oil)	0	.1	39.9	60
65	0.9111712	SLWCM (trace oil)	0	.1	8.9	91
120	0.5904	HMCW	0	Ω	70	30

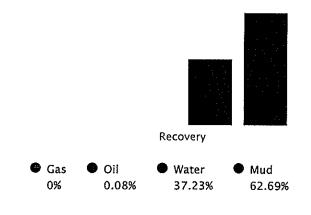
Total Recovered: 355 ft

Total Barrels Recovered: 3.9206712

Reverse	d Out
NO	

Initial Hydrostatic Pressure	2039	PSI
Initial Flow	19 to 120	PSI
Initial Closed in Pressure	1011	PSI
Final Flow Pressure	124 to 176	PSI
Final Closed in Pressure	994	PSI
Final Hydrostatic Pressure	2034	PSI
Temperature	122	°F
Pressure Change Initial	1.7	%
Close / Final Close		

Recovery at a glance





Test Complete

Company: Palomino Petroleum, SEC: 20 1 WN: 145 RNG: 30W County: GOVE

Inc. Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25 2018

DST #5 Formation: Lans "K&L"

Test Interval: 4200 -4290'

Total Depth: 4290'

Time On: 00:13 08/25

Time Off: 05:43 08/25

Time On Bottom: 02:03 08/25 Time Off Bottom: 04:03 08/25

BUCKET MEASUREMENT:

1st Open: 1/2 in. blow building. BOB in 25 mins.

1st Close: No blow back.

2nd Open: Surface blow building to a 10 3/4 in. blow.

2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas .1% Oil 55.9% Water 44% Mud

Ph: 7.5

Measured RW: .24 @ 86 degrees °F

RW at Formation Temp: 0.173 @ 122 °F

Chlorides: 30,000 ppm



Test Complete

Company: Palomino Petroleum, SEC: 20 199N: 145 KING: 3099 County: GOVE

Inc.

Lease: Karol Swart #1

Time On: 00:13 08/25

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25

2018

DST #5

Formation: Lans "K&L"

Test Interval: 4200 -

Total Depth: 4290'

4290'

Time Off: 05:43 08/25

Time On Bottom: 02:03 08/25 Time Off Bottom: 04:03 08/25

Down Hole Makeup

Heads Up:

18.68 FT

Packer 1: 4194.73 FT

Drill Pipe:

4064.36 FT

Packer 2: 4199.73 FT

ID-3 1/2

Top Recorder:

4184.15 FT

Weight Pipe:

0 FT

Bottom Recorder:

4270 FT

ID-2 7/8

Well Bore Size:

7 7/8

5/8"

Collars: ID-2 1/4 121.48 FT

Surface Choke:

1"

Test Tool:

33.57 FT

Bottom Choke:

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor:

90.27

Anchor Makeup

Packer Sub:

1 FT

Perforations: (top):

3 FT

4 1/2-FH

Change Over:

1 FT

Drill Pipe: (in anchor):

63.27 FT

ID-3 1/2

Change Over:

1 FT

Perforations: (below):

21 FT

4 1/2-FH



Test Complete

Company: Palomino Petroleum, SEC: 20 J WN: 14.5 RNG: 30W County: GOVE State: Kansas

Inc.

Lease: Karol Swart #1

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25

2018

DST #5 Formation: Lans "K&L"

Test Interval: 4200 -

Total Depth: 4290'

4290'

Time On: 00:13 08/25 Time Off: 05:43 08/25

Time On Bottom: 02:03 08/25 Time Off Bottom: 04:03 08/25

Mud Properties

Mud Type: Chemical Weight: 9.4 Viscosity: 55 Filtrate: 6.8 Chlorides: 2,700 ppm



Test Complete

Company: Palomino Petroleum, SEC: 20 JWN: 145 RNG: 30W County: GOVE

Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25 2018

DST #6 Formation: Pawnee/Myrick Station

Test Interval: 4393 -

Total Depth: 4458'

44581

Time On: 23:32 08/25

Time Off: 05:25 08/26

Time On Bottom: 01:44 08/26 Time Off Bottom: 03:44 08/26

Electronic Volume Estimate:

47'

1st Open Minutes: 30 Current Reading:

1.4" at 30 min

Max Reading: 1.4"

1st Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

2nd Open Minutes: 30 **Current Reading:**

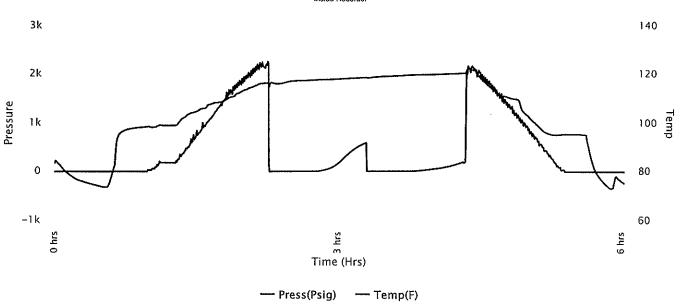
0" at 30 min

Minutes: 30 Current Reading: 0" at 30 min

2nd Close

Max Reading: 0" Max Reading: 0"

Inside Recorder





Test Complete

Company: Palomino Petroleum, SEC: 20 JWN: 145 RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25 2018

DST#6 Formation: Pawnee/Myrick Station

Test Interval: 4393 -

Total Depth: 4458'

Water %

Mud %

99.7

44581

Time On: 23:32 08/25

Time Off: 05:25 08/26

Oil %

Time On Bottom: 01:44 08/26 Time Off Bottom: 03:44 08/26

Recovered

BBLS Description of Fluid <u>Foot</u> Gas % M (trace oil) 30 0.1476 0

.3 0 Recovery at a glance

Total Recovered: 30 ft

Reversed Out Total Barrels Recovered: 0.1476

		NO	ł				
Initial Hydrostatic Pressure	2139	PSI	0.1				
Initial Flow	12 to 17	PSI	88L				
Initial Closed in Pressure	605	PSI	_				
Final Flow Pressure	19 to 24	PSI					
Final Closed in Pressure	209	PSI	0				
Final Hydrostatic Pressure	2128	PSI				Recovery	
Temperature	121	°F		Gas	Oil	● Water	• Mud
Pressure Change Initial Close / Final Close	65.4	%		0%	0.3%	0%	99.7%



Test Complete

Company: Palomino Petroleum, Sec. 20 19918; 148 KING: 3099

Inc. Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25 2018

DST #6 Formation: Pawnee/Myrick Station

Test Interval: 4393 -

Total Depth: 4458'

4458'

Time On: 23:32 08/25

Time Off: 05:25 08/26

Time On Bottom: 01:44 08/26 Time Off Bottom: 03:44 08/26

BUCKET MEASUREMENT:

1st Open: Surface blow building to a 1 1/4 in. blow.

1st Close: No blow back. 2nd Open: Surface blow. 2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas .5% Oil 0% Water 99.5% Mud



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 145 KNG: 30W County: GOVE

Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25 2018

DST#6

Formation: Pawnee/Myrick Station

Test Interval: 4393 -4458'

Total Depth: 4458'

Time On: 23:32 08/25

Time Off: 05:25 08/26

Time On Bottom: 01:44 08/26 Time Off Bottom: 03:44 08/26

Down Hole Makeup

Heads Up:

15.59 FT

Packer 1: 4388.31 FT

Drill Pipe:

4254.85 FT

Packer 2: 4393.31 FT

4377.73 FT

4432 FT

ID-3 1/2

Top Recorder:

Weight Pipe: 0 FT

Bottom Recorder:

ID-2 7/8

Collars: 121.48 FT Well Bore Size: 7 7/8

ID-2 1/4

1" Surface Choke:

33.57 FT

Bottom Choke: 5/8"

Test Tool: ID-3 1/2-FH

Jars

Safety Joint

Total Anchor:

64.69

Anchor Makeup

Packer Sub:

1FT

Perforations: (top):

3 FT

4 1/2-FH

1 FT

Drill Pipe: (in anchor):

31.69 FT

ID-3 1/2

Change Over:

Change Over:

1 FT

Perforations: (below):

27 FT

4 1/2-FH



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 148 RNG: 30W County: GOVE

Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August 25 2018

DST #6

Formation: Pawnee/Myrick Station

Test Interval: 4393 -

Total Depth: 4458'

4458'

Time On: 23:32 08/25

Time Off: 05:25 08/26

Time On Bottom: 01:44 08/26 Time Off Bottom: 03:44 08/26

Mud Properties

Mud Type: Chemical

Weight: 9.1

Viscosity: 60

Filtrate: 6.4

Chlorides: 2,900 ppm



Company: Palomino Petroleum, SEG: 20,1WN: County: GOVE Inc.

State: Kansas Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

SEC: 20 TWN: 14S RNG: 30W

Pool: Pool Ext Job Number: 218

Operation:

Test Complete

DATE August

26

2018

DST #7 Formation: Johnson

Lease: Karol Swart #1

Test Interval: 4447 -

Total Depth: 4553'

4553'

Time On: 16:27 08/26

Time Off: 22:41 08/26

Time On Bottom: 18:41 08/26 Time Off Bottom: 20:41 08/26

Electronic Volume Estimate:

0'

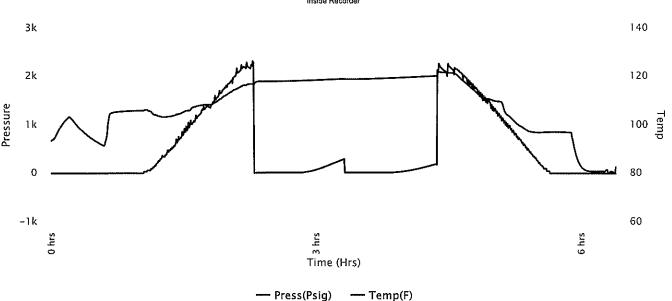
1st Close 1st Open Minutes: 30 Minutes: 30 Current Reading: Current Reading: 0" at 30 min 0" at 30 min Max Reading: 0" Max Reading: 0"

2nd Open Minutes: 30 Current Reading: 0" at 30 min

2nd Close Minutes: 30 Current Reading:

0" at 30 min Max Reading: 0" Max Reading: 0"

Inside Recorder





Company: Palomino Petroleum, SEC: 20 TWN: 14S RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext

Job Number: 218

Operation:

Test Complete

DATE August 26 2018

DST #7 Formation: Johnson Total Depth: 4553' Test Interval: 4447 -4553'

Time On: 16:27 08/26 Time Off: 22:41 08/26

Time On Bottom: 18:41 08/26 Time Off Bottom: 20:41 08/26

Recovered

<u>Foot</u> **BBLS** Description of Fluid Gas % <u>Oil %</u> Water % Mud % 5 0.0246 0 100 Μ 0 0

Total Recovered: 5 ft

Total Barrels Recovered: 0.0246

Reversed Out NO
NO

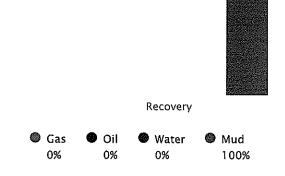
%

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			0.02
Initial Hydrostatic Pressure	2224	PSI	
Initial Flow	14 to 17	PSI	881
Initial Closed in Pressure	298	PSI	0.01
Final Flow Pressure	17 to 19	PSI	
Final Closed in Pressure	193	PSI	0
Final Hydrostatic Pressure	2222	PSI	
Temperature	121	°F	

35.1

Pressure Change Initial Close / Final Close

Recovery at a glance





Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 14S RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

<u>DATE</u>

August 26 2018

DST #7 Formation: Johnson Test Interval: 4447 -

Total Depth: 4553'

4553'

Time On: 16:27 08/26

Time Off: 22:41 08/26

Time On Bottom: 18:41 08/26 Time Off Bottom: 20:41 08/26

BUCKET MEASUREMENT:

1st Open: Surface blow. 1st Close: No blow back. 2nd Open: No blow. 2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: Palomino Petroleum, SEC: 20 TWN: 14S RNG: 30W County: GOVE Inc.

Lease: Karol Swart #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

1"

5/8"

Operation: Test Complete

DATE

August

26

2018

DST #7 Formation: Johnson Test Interval: 4447 -

Total Depth: 4553'

45531

Time On: 16:27 08/26

Time Off: 22:41 08/26

Surface Choke:

Time On Bottom: 18:41 08/26 Time Off Bottom: 20:41 08/26

Down Hole Makeup

Heads Up: 25.63 FT Packer 1: 4441.73 FT

Drill Pipe: 4318.31 FT Packer 2: 4446.73 FT

ID-3 1/2 Top Recorder: 4431.15 FT

Weight Pipe: 0 FT **Bottom Recorder:** 4517 FT

ID-2 7/8 Well Bore Size: 7 7/8

Collars: 121.48 FT

Bottom Choke:

Test Tool: 33.57 FT ID-3 1/2-FH

Jars Safety Joint

ID-2 1/4

Total Anchor: 106.27

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 63.27 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 37 FT

4 1/2-FH



Test Complete

Company: Palomino Petroleum, SEC: 20 TWN: 14S RNG: 30W County: GOVE State: Kansas

Inc.

Lease: Karol Swart #1

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 2862 GL

Field Name: Butterfield-Overland

Pool: Pool Ext Job Number: 218

DATE August

26 2018 **DST #7** Formation: Johnson Test Interval: 4447 -

Total Depth: 4553'

4553'

Time On: 16:27 08/26

Time Off: 22:41 08/26

Time On Bottom: 18:41 08/26 Time Off Bottom: 20:41 08/26

Mud Properties

Mud Type: Chemical

Weight: 9.2

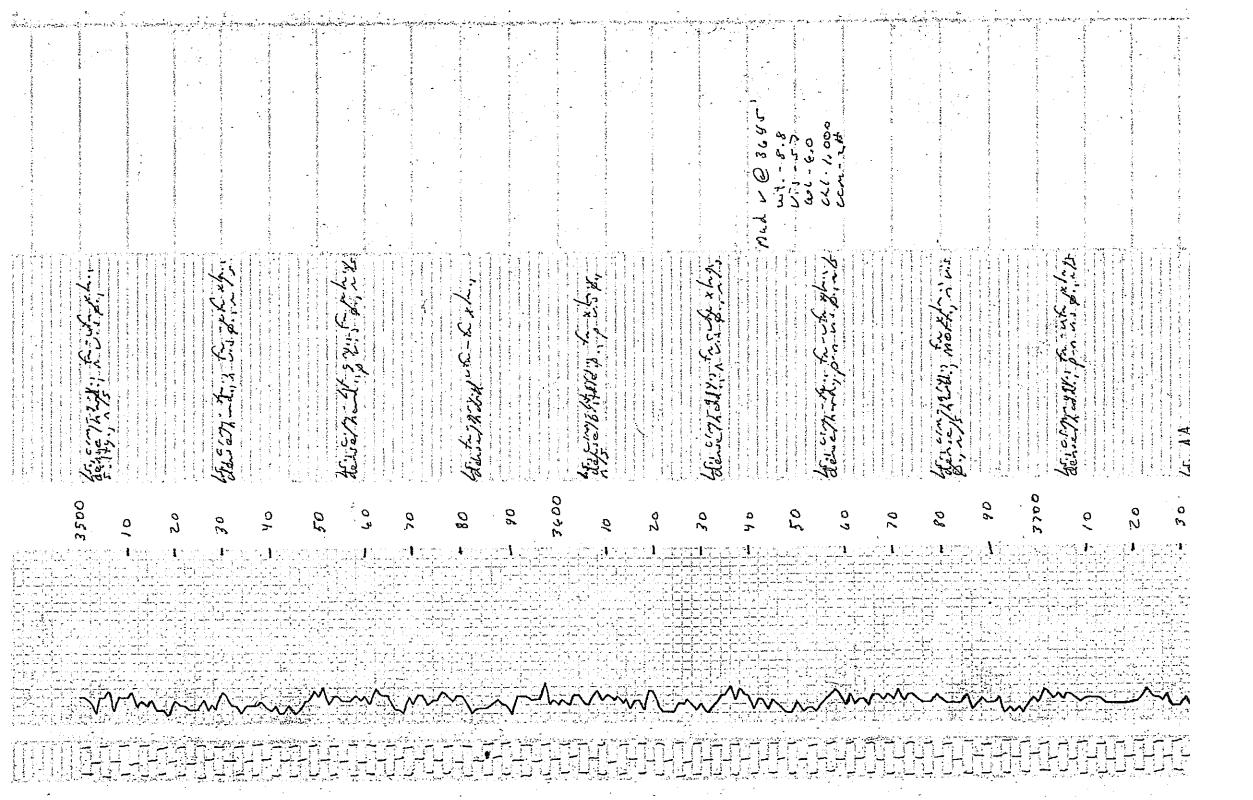
Viscosity: 60+

Filtrate: 7.2

Chlorides: 2,900 ppm

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