KOLAR Document ID: 1430645

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:	SecTwpS. R East West
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
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)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
☐ CM (Coal Bed Methane)☐ Cathodic☐ Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
	If yes, show depth set: Feet
If Workover/Re-entry: Old Well Info as follows:	
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)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	·
GSW	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. 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 Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II III Approved by: Date:

KOLAR Document ID: 1430645

Page Two

Operator Name:	:						_ Lease	Name: _				W	/ell #:	
SecTw	vp	S. R.		East	t 🗌 W	/est	Count	ty:						
open and closed and flow rates if	d, flowing a gas to sur rity Log, Fir	and shu face tes nal Logs	t-in pressu st, along w s run to ob	ures, who vith final otain Geo	ether sh chart(s ophysic	hut-in pre). Attach cal Data a	ssure rea extra she and Final I	ached state eet if more Electric L	ic leve	, hydrosta e is needed	tic pressures d.	s, botton	n hole tempe	val tested, time tool erature, fluid recovery, v. Digital electronic log
Drill Stem Tests (Attach Addi		rs)			⁄es [No			_og	Formatio	on (Top), Dep	oth and	Datum	Sample
Samples Sent to		•	ey		es [No		Nan	ne				Тор	Datum
Cores Taken Electric Log Rur Geologist Repoi	rt / Mud Lo	gs			/es [/es [/es [No No No								
				Rep			RECORD			Used ate, producti	on. etc.			
Purpose of S	tring		Hole lled	Si	ze Casi et (In O.I	ng	We	eight s. / Ft.	5	Setting Depth	Type of Cemen		# Sacks Used	Type and Percent Additives
					4.0.0		OFNENT	-INIO / 00		DE00DD				
Purpose:		De	epth	Typ	ADL e of Cen			ks Used	JEEZE	RECORD	Typo	and Pare	cent Additives	
Perforate Protect Ca		Top B	Sottom	тур	e or oen	nem	# Jacr	No Oseu			Туре	and reid	Sent Additives	
Plug Off Z	Zone													
 Did you perforn Does the volum Was the hydrau 	ne of the tota	al base fl	luid of the h	ydraulic fr	acturing					Yes Yes Yes	☐ No (If N	lo, skip c	questions 2 an question 3) t Page Three (
Date of first Produ	uction/Injecti	ion or Re	esumed Pro	duction/		ucing Meth	nod:	ing	Gas Li	ft 🗆 C	other (Explain)			
Estimated Produ	ction		Oil E	Bbls.			Mcf	Wa			bls.	Gas	s-Oil Ratio	Gravity
Per 24 Hours	8													
Vented	OSITION O	Used	on Lease		Open H	_	METHOD C	Duall	ETION: y Comp		nmingled	-	PRODUCTIC Top	N INTERVAL: Bottom
(If vent	ted, Submit A	.CO-18.)						(, (842.				
Shots Per Foot	Perfora Top		Perfora Botto		Bridge Typ		Bridge P Set At			Acid,	Fracture, Sho		nting Squeeze Material Used)	Record
TUBING RECOR	RD:	Size:		Set At:			Packer At:							

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	MCJUNKIN 1
Doc ID	1430645

All Electric Logs Run

Micro
Dual Induction
Dual Receiver Cement Bond
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	MCJUNKIN 1
Doc ID	1430645

Tops

Name	Тор	Datum
Anhy.	1489	(+ 759)
Base Anhy.	1497	(+ 751)
Heebner	3740	(-1492)
Lansing	3788	(-1540)
ВКС	4140	(-1892)
Pawnee	4222	(-1974)
Ft. Scott	4300	(-2052)
Cherokee Sh.	4324	(-2076)
Miss.	4394	(-2146)
LTD	4532	(-2284)

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	MCJUNKIN 1
Doc ID	1430645

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	229	Common		2 % gel. 3 % c.c
Production	7.875	5.50	14	4529	SMD/ EA- 2	175	2 % gel. 3 % c.c



P. O. Box 466

Ness City, KS 67560

Off: 785-798-2300



Invoice

DATE	INVOICE #
9/20/2018	31731

BILL TO

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

RECEIVED
SEP 24 2018

- Acidizing
- Cement
- Tool Rental

TERMS	Well No	o. Lease	County	Contractor	We	II Type	W	ell Category	Job Purpos	e Operator
Net 30		McJunkin	Ness	H-D Oilfield Rig #5		Oil		Development	Port Collar & F	e Blaine
PRICE I	REF.		DESCRIPT	TON		QT	· · · · · · · · · · · · · · · · · · ·	UM	UNIT PRICE	AMOUNT
575D 576D-D 330 276 300 - 15% 230 235 104 581D 583D	H S H S H S H S S H	Swift Multi-Density Flocele Regular Acid Surf-3 ESA-N35 (Lo NH.1 ESA-28 Port Collar Tool Ren Bervice Charge Cem Drayage Subtotal Sales Tax Ness Cour	Standard (MID osurf 300) ntal ent	port collar			1 165 50	230 Gallon(s) Gallon(s) Each	5.00 1,300.00 16.25 2.50 1.90 25.00 40.00 200.00 1.75 0.85	150.00 1,300.00 2,681.25T 125.00T 380.00 25.00 40.00 200.00T 481.25 343.64 5,726.14 195.41

We Appreciate Your Business!

Total

\$5,921.55



)
CHARGE TO:	Median Rotherdown
ADDRESS	
CITY STATE ZIP CODE	30DE

TICKET 031731

REFERRAL LOCATION Services, TICKET TYPE
☐ SERVICE
☐ SALES INVOICE INSTRUCTIONS WELL/PROJECT NO WELL TYPE 0 CONTRACTOR Ω RIG NAME/NO. COUNTY/PARISH DYNE STAIR CITY DELIVERED TO WELL PERMIT NO. のおうか DATE 20 540 18 WELL LOCATION ORDER NO. PAGE OWNER 유

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but are not limited to, PAYMENT, RELEASE, INDEMNITY, and the terms and conditions on the reverse side hereof which include, LEGAL TERMS: Customer hereby acknowledges and agrees to LIMITED WARRANTY provisions.

REMIT PAYMENT TO:

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK ON DELIVERY OF GOODS.

DATE SIGNED

TIME SIGNED

P A K

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

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4	TOTAL		□ No	□ ÆS	
	*			5	RE YOU SATISFIED WITH OUR SERVICE?
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	ス ア ス				ND PERFORMED JOB
	マン・ヘ				E OPERATED THE EQUIPMENT
					RFORMED WITHOUT DELAY?
					JR SERVICE WAS
					ET YOUR NEEDS?
			•		E UNDERSTOOD AND
_					ITHOUT BREAKDOWN?
6	PAGE TOTAL				JR EQUIPMENT PERFORMED
\ _	K	DISAGREE	UNDECIDED	AGREE	SURVEY

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

☐ CUSTOMER DID NOT WISH TO RESPOND

SWIFT OPERATOR

APPROVAL

Thank You!

DATE PAGE NO. SWIFT Services. Inc. JOB LOG CUSTOMER WELL NO. LEASE JOB TYPE McJonkin CHART NO. RATE (BPM) VOLUME (BBL) (GAL) PRESSURE (PSI) TIME DESCRIPTION OF OPERATION AND MATERIALS TC TUBING CASING 200sk SND cenut w/ 4th 73452 Portcollar - 1468 0830 on loc TRK 114 1000 1000 0900 3/2 6pm @ 200 Zeo ろき 700 32 200 0930 75 1000 1000 0950 1030 1.100 1437 700 1520 3



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



Invoice

DATE	INVOICE#
9/11/2018	31648

BILL TO	RECFIVED
Palomino Petroleum Inc.	SEP 15 2018
4924 S E 84th Street	
Newton, KS 67114-8827	

- Acidizing
- Cement
- Tool Rental

TERMS	Well N	No.	Lease	County	Contractor	We	II Туре	W	ell Category	Job Purpos	e	Operator
Net 30	#1		McJunkin	Ness	WW Rig #14		Oil	D	evelopment	Cement Long S	Str	Blaine
PRICE I	REF.			DESCRIPT	ION		QTY	,	UM	UNIT PRICE	Γ	AMOUNT
575D 578D-L 403-5 404-5 406-5 407-5 409-5 419-5 330 325 284 283 285 276 281 221 581D 582D		Pun 5 1/ 5 1/ 5 1/ 5 1/ 5 1/ 5 1/ 5 1/ 5 Swin Calss Salt CFR Flood Muc Liqu Serv Min	R-1 cele 1 Flush nid KCL (Clayfix rice Charge Ceme imum Drayage C	et Plug & Baffle noe With Auto I Rental Standard (MIDe				1 1 1 1 10 1 125 100 5 500 50 50	Miles Job Each Each Each Each Each Each Sacks Sacks Sack(s) Lb(s) Lb(s) Gallon(s) Gallon(s) Sacks Each	5.00 1,300.00 275.00 2,500.00 250.00 325.00 85.00 200.00 16.25 13.00 35.00 0.20 4.50 2.50 1.50 25.00 1.75 250.00		125.00 1,300.00 275.00T 2,500.00T 250.00T 325.00T 850.00T 200.00T 175.00T 100.00T 125.00T 100.00T 393.75 250.00 11,275.00 598.41
We Ap	pre	cia	te Your E	Business	:[Total			

Total

\$11,873.41



The second secon	
	ADDRESS
Palanino	CHARGE TO:

TICKET 031648

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO, START OF WORK OR DELIVERY OF GOODS.		LIMITED WARRANTY provisions.	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,		40	409	407	40k	464	403	578	575	PRICE SECONDARY REFERENCE/ ACCOUNTING ERENCE PART NUMBER LOC ACCT DF	REFERRAL LOCATION INVOICE INSTRUCTIONS	WELL TYPE	2. IICKE TYPE CONTRACTOR SERVICE SALES] E	Inc.
ARE YOU SATISFIED WITH OUR SERVICE?		SWIFT SERVICES, INC. OUR SERVICE WAS SERVICED WITHOUT DELAY?	REMIT PAYMENT TO: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		Rotativa want rental	l I	Insect Floor sine wy Auto FLL	Latrin Jaum shu & falkle	Topt Collar	子がある	durae	MILEAGE TPX 1/4	DESCRIPTION	4	CONNECT CONNECT LONG STANGE	RIG NAME/NO. SHIPPED	MCJONKIN COUNTY/PARISH STATE	CITY, STATE, ZIP CODE
ITH OUR SERVICE?	GUIPMENT	D The Avy	VEY AGREE UNDECIDED DISAGREE PROPINED P		56 [m]) 10g	//		in I la		50/2		23	QTY. U/M QTY. U/M		WELL PERMIT NO. WEI	DELIVERED TO	OTTY NEW CITY	
	(650/ 508/41	11,27500	PAGE TOTAL 5835100		20000 20000	850 as 850 as		30 8)00 2	3758 3758	127	877 8 7 8 7	UNIT AMOUNT		WELL LOCATION	ORDER NO.	DATE OWNER	PAGE OF

SWIFT OPERATOR

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

☐ CUSTOMER DID NOT WISH TO RESPOND

Thank You!

APPROVAL

PO Box 466

NOTAUNITINGS TENOT

*		581	88												32	38	916	285	283	18%	しょでか	330	REFERENCE		
																							SECONDARY REFERENCE/ PART NUMBER		
		0							,														ACCOUNTING TIME	Off: 785-798-2300	- C BOX 400
	CHARGE TOTAL WARRY LOADED MILES	% >	Drogging (new						<u>k</u>						KC Pierria	y 57(380W	1 Ancelle	(A)	Solt		I Stanford coment (for stru)	SIND Oment	DESCRIPTION	CISTOMER Palamono	
	上的でsanmon	CUBIC FEET	1 100		******	v 3		 		-		Treetween, verticality of the contract of the	 		+		50 1/6	21/6	9/1 005	500	<i>(30)</i>	SS 18-631	ατγ μιμ ατγ	WELL MCJUNES +	\
CONTINUATION TOTAL		175	<u> </u>					 							250	19	i 2/50	4 670	0.20	781	13	186 9/ 18/5	UNIT PRICE	81 035 Th	
5450 W	-	393 75	250,00	alones Sheetaa	or answers	 		 ,			-			-	00/00/	75D\@	125100	292 00	100 00	75 B	1	2031 25	AMOUNT		

PAGE NO. SWIFT Services, Inc. 11 929 18 1 1 TICKET NO. 31648 JÔB LOG CUSTOMER Palamino WELL NO. LEASE MCJUNGN PRESSURE (PSI)
JBING CASING VOLUME (BBL) (GAL) PUMPS CHART TUBING 1005k EA-7 cernst w/ 4# flowle 125 ste 5mb cernst w/ 4# flowle 5½/14# Castroy 108 jts 4531/2 Rudof 72 Centraliza 1,3,5,7,9,11 13,15,17,71 Post collar +72 1471' on loc TRK 114 Start 55 × 14 # Ousing in well 1330 Drapporll - CARCULATE - ROTATE Page 20 bbl KCL flash 12 an Plug RH - 305k WH 205 45 MIX SND cement 953 @ 12.2 ppy mix EA 2 cement 100 @ 16.3 ppg 2000 23 Drop latch down plus 2040 Displace plus 100 W 0 Land plug felease pressure to touch - dried up 2051> 9125



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: 9/4/2018 Invoice # 953

P.O.#:

Quantity

Price

Taxable

Due Date: 10/4/2018 Division: Russell

Invoice

RECEIVED

SEP 07 2018

Item

Contact:

Palomino Petroleum Inc Address/Job Location:

4924 SE 84th Newton Ks 67114

Reference:

MCJUNKIN 1 SEC 15-20-22

Services / Items Included:

Description of Work:

SURFACE JOB

Labor		\$ 641.27	No			
Common-Class A	120	\$ 1,776.75	Yes			
Calcium Chloride	6	\$ 241.50	Yes			
POZ Mix-Standard	30	\$ 150.94	Yes			
Bulk Truck Matl-Material Service Charge	159	\$ 114.28	No			
Pump Truck Mileage-Job to Nearest Camp	23	\$ 74.39	No			
Premium Gel (Bentonite)	3	\$ 62.53	Yes			
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 57.86	No			
Invoice Terms:					SubTotal:	3,119.52
Net 30		Discou	ınt Availa	ble <u>ONL</u>	Y if Invoice is Paid & Received within listed terms of invoice:	\$ (77.99)
					SubTotal for Taxable Items:	\$ 2,175.93
					SubTotal for Non-Taxable Items:	\$ 865.61
					Total:	\$ 3,041.53

6.50% Ness County Sales Tax

Taxable

Thank You For Your Business!

Tax: \$ Amount Due: \$ **Applied Payments:**

> Balance Due: \$ 3,182.97

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.

Quantity

Price

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. 953

	Sec.	Twp.	Range	4.0	County	State	On Location	Finish
Date 9-4-18	15	20	22	<u> </u>	1699	K5		11:00 PM
		_		Locati	on Bazin	e 95 to 40	Rd 2'2 W	9114
Lease Mc Junkin	1		Well No. †⊈/		Owner			
Contractor ₩ #	14				To Quality Oi	Iwell Cementing, Inc. by requested to rent of	rementing equipment	t and furnish
Type Job Surface					cementer and	d helper to assist own	er or contractor to de	work as listed.
Hole Size / 2 1/4		T.D.)	29'		Charge Pa	lomino petro	iteus	
Csg. 8 5/8		Depth			Street			
Tbg. Size		Depth	 .	<u>.</u> .	City		State	
Tool		Depth			The above wa	s done to satisfaction an	d supervision of owner	agent or contractor.
Cement Left in Csg. 20) '	Shoe J	oint		Cement Amo	unt Ordered 150	80/20 3% cc	2% 60
Meas Line		Displac	e 13661				······································	
	EQUIPN	MENT			Common /	20		
Pumptrk 16 No. Ceme Helper	ر گ	rett			Poz. Mix	30		
Bulktrk / 4 No. Driver	UG	vid			Gel.	3		
Bulktrk No. Driver		1			Calcium 2	/ 2		
JOB SE	RVICES	& REMA	RKS		Hulls			
Remarks:					Salt			
Rat Hole					Flowseal	Marine and a second		
Mouse Hole					Kol-Seal		······································	
Centralizers					Mud CLR 48			
Baskets					CFL-117 or C	D110 CAF 38		
D/V or Port Collar		-4000			Sand			
				Á	Handling /	59		
Ran 229' 8	5/8	t Est	<u> Circulat</u>	τος	Mileage		and the same	
Mix 150 sx						FLOAT EQUIPME	ENT	
Displaced 13t	نظر			2 2 6	Guide Shoe			
- 1	·				Centralizer	······································		
Coment cir	culat	- by!	100 000		Baskets			
			18.00	<u> </u>	AFU Inserts			
					Float Shoe			
		\$100000° NA	10		Latch Down			
						* *		
		16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1000				
				- W.	Pumptrk Cha	irge Surface	-	
					Mileage 2	2	×	
							Tax	
<u> </u>							Discount	
Signature Signature	Sne	<u></u>					Total Charge	
N	-							

Geologic Report

Aaron L. Young

Drilling Time and Sample Log

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

Well Name: McJunkin #1

API: 15-135-26019

Location: Section 15 - T20S - R22W

License Number: 30742

Region: Ness Co., KS
Drilling Completed: 09 / 10 / 2018

Spud Date: 09 / 04 / 2018

Surface Coordinates: 1780' FNL and 2553' FEL

Approx. SW - NW - SW - NE

Bottom Hole

Coordinates:

Ground Elevation (ft): 2237' K.B. Elevation (ft): 2248' Logged Interval (ft): 3700' To: 4530' Total Depth (ft): 4530'

Formation: Mississippian

Type of Drilling Fluid: Chemical - Mud-Co

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+8827

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting LLC
Address: 100 S. Main, Suite 505

Wichita, Kansas 67202

General Info

CONTRACTOR: WW Drilling, Rig #14

BIT RECORD:

No. Size Make Jets Out Feet Hours 12-1/4 15-15-15 229 1 SMITH 218 3.0 2 7-7/8 F27IY 15-15-15 4530 4301 94.5

SURVEYS: 229'-.25, 1449'-.75, 4373'-1.75, 4402-.75, 4530'-.75

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 35,000 - 38,000 lbs. on bit and approx 90 RPM.

Running 8 stands of collars; 461'

Pumping approx 1000 psi at standpipe.

Daily Status

09/04/18 - MIRT & Spud at 5:15pm, ran 5 jts. new 23# 8 5/8" surface pipe set at 229' and cemented w/ 150 sx Common 3% cc & 2% gel. Cement did circulate. Plug down at 11:00pm

09/05/18 - Drilling @ 229'

09/06/18 - Drilling @ 1810'

09/07/18 - Drilling @ 3000'

09/08/18 - Drilling @ 3850'

09/09/18 - Drilling @ 4350', DST #1 4320'-4405'

09/10/18 - Tripping out of hole for DST #2 4405'-4417', TD'd @ 4530'

09/11/18 - Logged, Ran 108 jts. 5 1/2 14# casing set 2' off bottom @ 4529'. Pumped Desco flush for 1 hr. Pump 500 gal mud flush with additives followed by 20 bbl. KCL water and cemented with 75 sacks SMD cement and 100 sacks EA-2 cement. Good circulation at all times. Had 650# lift pressure. Plug down @ 8:45pm. Pressured to 1500#, released and held. Plugged rat hole with 30 sacks SMD cement and mouse hole with 20 sacks SMD cement. Basket at 1513'. FDC's at 4409' and 4417', Centralizers at 4486', 4400', 4315, 4230', 4146', 4069', 3984', 3898', 3813', 1515'. Shoe joint = 43.44'. Port collar at 1471'

DST #1 MISSISSIPPI

4,320' - 4,405' 30-30-30-30

IF: Slowly built to 10"

ISI: No blow

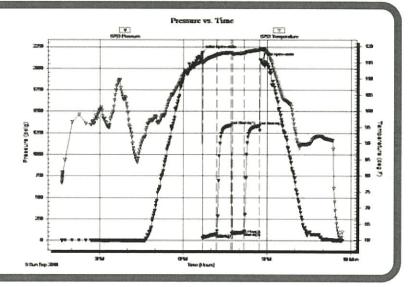
FF: BOB in 23 min (14.25")

FSI: No blow

Rec'd: 116' HOCM (40% O, 60% M), & 95' MCO (60% O,

40% M)

SIP: 1340-1333# FP: 31-74#, 80-97# HP: 2184-2099#



DST #2 MISSISSIPPI 4.405' - 4.417'

30-30-30-30

IF: Slowly bult to 5.5", slowly died to 3.5"

ISI: Surface blow died in 1 min

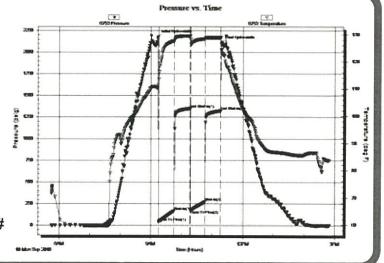
FF: Slowly built to 1.5"

FSI: Slowly built to 1" then slowly died to .25"

Rec'd: 150' WOCM (35% O, 15% W, 50% M), & 570' CGO

(30% G, 70% O), 475' GIP

SIP: 1351-1325# FP: 41-169#, 177-273# HP: 2176-2113#



Sandylms

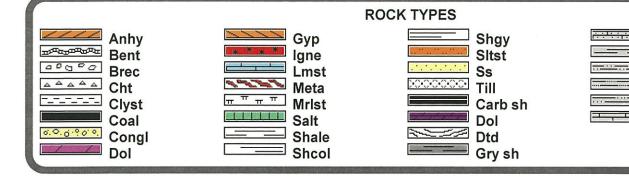
Shale

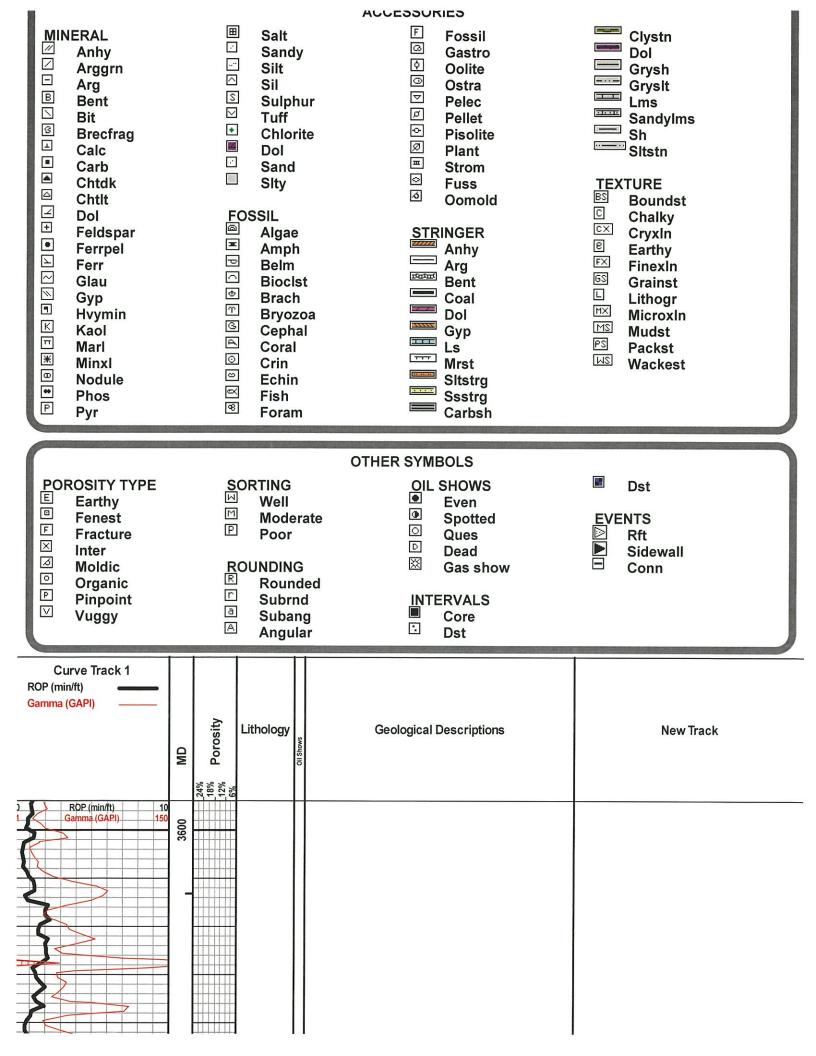
Sitstn

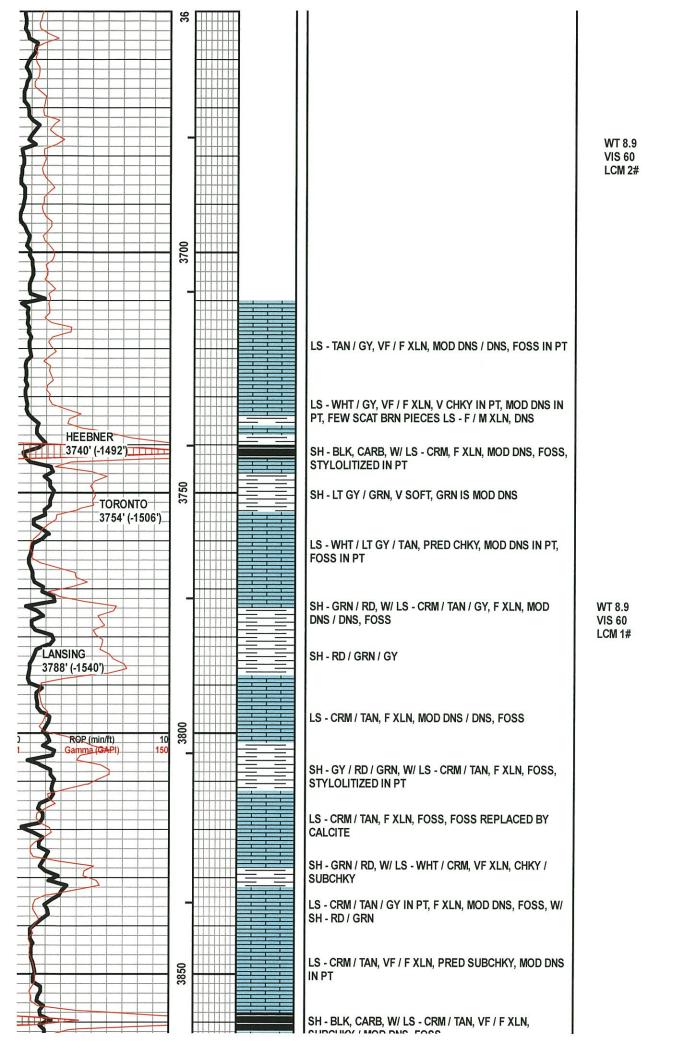
Sltysh

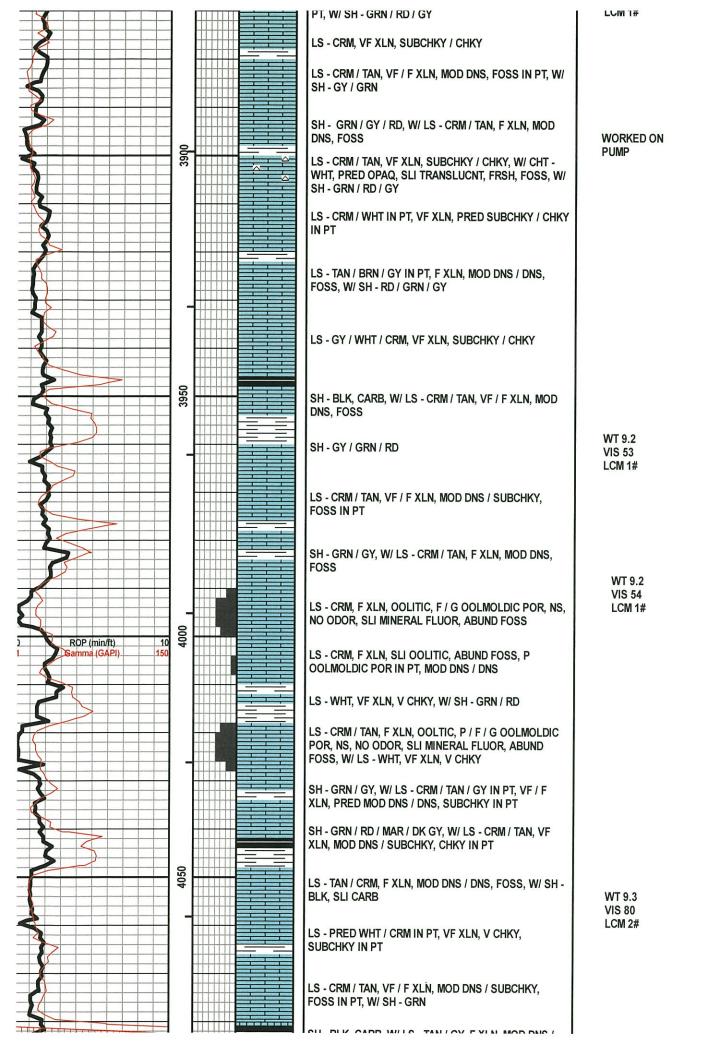
Lms

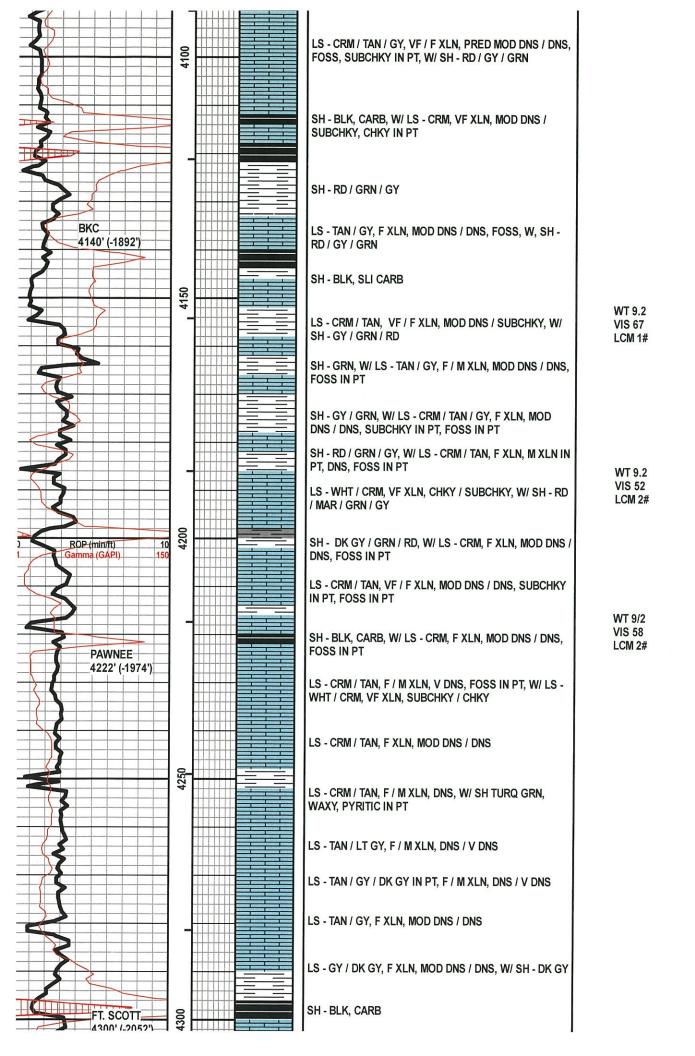
Shlyslts

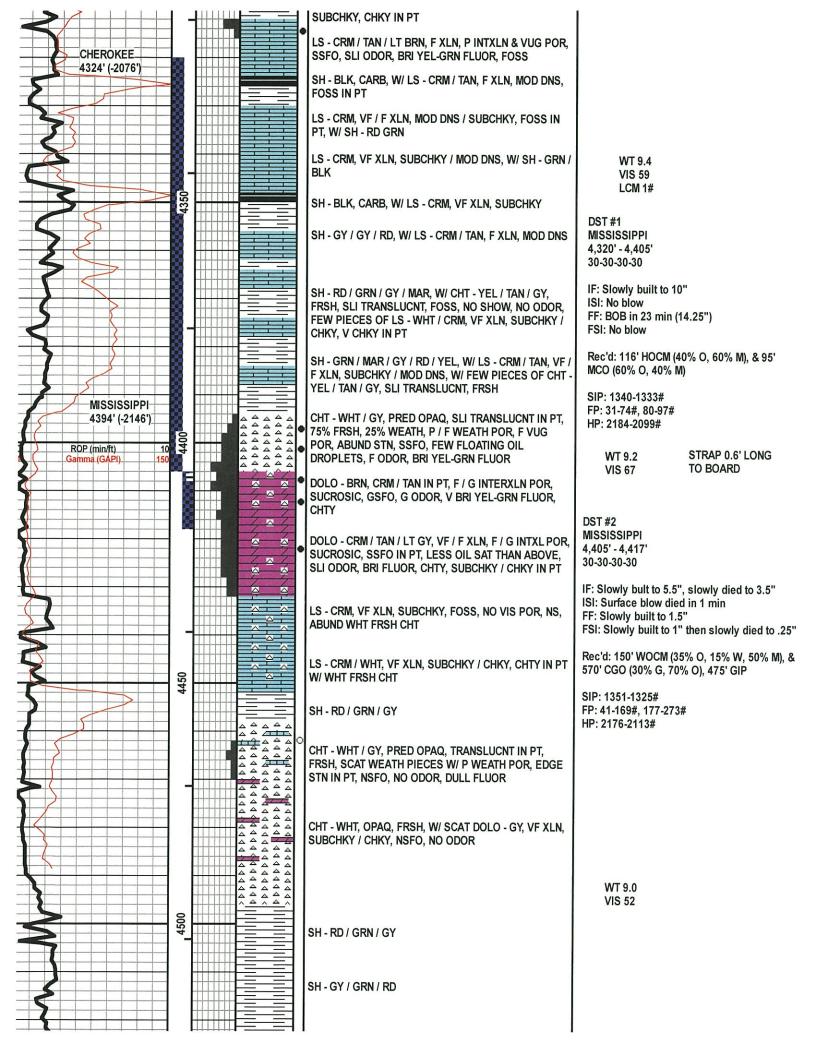














Prepared For: Palomino Petroleum, Inc.

4924 SE 84th St. Newton, KS 67114

ATTN: Aaron Young

McJunkin #1

15-20S-22W Ness,KS

Start Date: 2018.09.09 @ 13:38:26 End Date: 2018.09.09 @ 23:41:56

Job Ticket #: 63148 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum, Inc.

15-20S-22W Ness,KS

4924 SE 84th St. New ton, KS 67114

McJunkin #1 Job Ticket: 63148

DST#: 1

ATTN: Aaron Young

Test Start: 2018.09.09 @ 13:38:26

GENERAL INFORMATION:

Time Tool Opened: 18:41:56

Formation:

Mississippian

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

73

Interval:

Time Test Ended: 23:41:56

4320.00 ft (KB) To 4405.00 ft (KB) (TVD)

Reference Elevations:

Unit No:

2248.00 ft (KB)

Total Depth:

2237.00 ft (CF)

Hole Diameter:

4405.00 ft (KB) (TVD)

KB to GR/CF:

11.00 ft

Serial #: 6753

Press@RunDepth:

Outside

97.49 psig @

7.88 inches Hole Condition: Fair

4321.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2018.09.09

End Date:

2018.09.09

Last Calib.:

2018.09.09

Start Time:

13:38:31

End Time:

23:41:56

Time On Btm:

2018.09.09 @ 18:40:56

Time Off Btm:

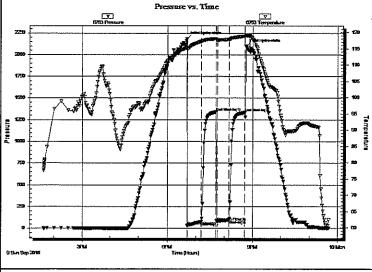
2018.09.09 @ 20:45:56

TEST COMMENT: 30- IF- Slow ly built to 10"

30- ISI- No blow

30- FF- Slow ly built to 14.25" (BOB 23mins)

30- FSI- No blow



PRESSURE SUMMARY

_				
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2183.89	115.12	Initial Hydro-static
	1	31.22	114.62	Open To Flow (1)
	31	74.37	117.32	Shut-In(1)
	62	1339.75	118.04	End Shut-In(1)
7	64	80.20	117.67	Open To Flow (2)
	90	97.49	117.88	Shut-In(2)
	123	1333.31	118.79	End Shut-In(2)
	125	2098.76	119.06	Final Hydro-static
				-
i				

Recovery

Length (ft)	Description	Volume (bbl)
116.00	HOCM, 40%O 60%M	0.57
95.00	MCO, 40%M 60%O	1.35
L		

Gas	Kai	es
-----	-----	----

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



Palomino Petroleum, Inc.

15-20S-22W Ness,KS

4924 SE 84th St. New ton, KS 67114 McJunkin #1 Job Ticket: 63148

DST#: 1

ATTN: Aaron Young

Test Start: 2018.09.09 @ 13:38:26

GENERAL INFORMATION:

Time Tool Opened: 18:41:56

Time Test Ended: 23:41:56

Formation:

Mississippian

Deviated:

Interval:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Brannan Lonsdale

Unit No:

73

Reference Elevations:

2248.00 ft (KB)

4405.00 ft (KB) (TVD)

2237.00 ft (CF)

Total Depth: Hole Diameter:

7.88 inches Hole Condition: Fair

4320.00 ft (KB) To 4405.00 ft (KB) (TVD)

KB to GR/CF:

11.00 ft

Serial #: 6771

Press@RunDepth:

Inside

psig @

4321.00 ft (KB)

2018.09.09

Capacity: Last Calib .: 8000.00 psig

Start Date:

2018.09.09

End Date:

Time On Btm:

2018.09.09

Start Time:

13:39:00

23:42:19

End Time:

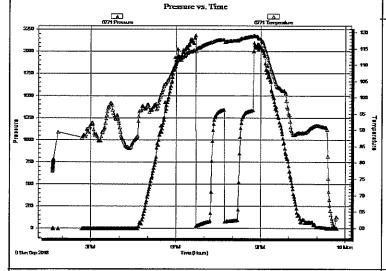
Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 10"

30- ISI- No blow

30- FF- Slow ly built to 14.25"(BOB 23mins)

30- FSI- No blow



	PRESSURE SUMMARY				
Time	Pressure	Temp	Annotation		
(Min.)	(psig)	(deg F)			
	"				
			ŀ		
	İ				

Recovery

Length (ft)	Description	Volume (bbl)
116.00	HOCM, 40%O 60%M	0.57
95.00	MCO, 40%M 60%O	1.35
· · · · · · · · · · · · · · · · · · ·		

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

Trilobite Testing, Inc

Ref. No: 63148



15-20S-22W Ness,KS

4924 SE 84th St. New ton, KS 67114

Palomino Petroleum, Inc.

McJunkin #1

Job Ticket: 63148

DST#: 1

TOOL DIAGRAM

ATTN: Aaron Young

Test Start: 2018.09.09 @ 13:38:26

Tool Information

Drill Pipe:

Length: 4186.00 ft Diameter:

3.82 inches Volume:

59.34 bbl

Tool Weight:

2500.00 lb

Heavy Wt. Pipe: Length: Drill Collar:

Length:

ft Diameter: 116.00 ft Diameter:

inches Volume: 2.25 inches Volume: Total Volume:

- bbl 0.57 bbl - bbl Weight set on Packer: 25000.00 lb Weight to Pull Loose: 66000.00 lb

Tool Chased

String Weight: Initial

0.00 ft 64000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

Depth to Bottom Packer:

10.00 ft 4320.00 ft

85.00 ft

Final 65000.00 lb

Interval between Packers: Tool Length:

Number of Packers:

113.00 ft 2

Diameter:

6.75 inches

Tool Comments:

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
1.00			4293.00		
5.00			4298.00		
5.00			4303.00		
5.00			4308.00		
3.00			4311.00		
5.00			4316.00	28.00	Bottom Of Top Packer
4.00			4320.00		
1.00			4321.00		
0.00	6771	Inside	4321.00		
0.00	6753	Outside	4321.00		
16.00			4337.00		
1.00			4338.00		
63.00			4401.00		
1.00			4402.00		
3.00			4405.00	85.00	Bottom Packers & Anchor
	1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 0.00 16.00 1.00 63.00	1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 6771 0.00 6753 16.00 1.00 63.00 1.00	1.00 5.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 6771 Inside 0.00 6753 Outside 16.00 1.00 63.00 1.00	1.00 4293.00 5.00 4298.00 5.00 4303.00 5.00 4308.00 3.00 4311.00 5.00 4316.00 4.00 4320.00 1.00 4321.00 0.00 6771 Inside 4321.00 0.00 6753 Outside 4321.00 16.00 4337.00 1.00 4338.00 63.00 4401.00 1.00 4402.00	1.00

Total Tool Length:

113.00

Trilobite Testing, Inc

Ref. No: 63148



15-20S-22W Ness,KS

4924 SE 84th St. New ton, KS 67114

Palomino Petroleum, Inc.

McJunkin #1

Job Ticket: 63148

DST#: 1

FLUID SUMMARY

ATTN: Aaron Young

Test Start: 2018.09.09 @ 13:38:26

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal

72.00 sec/qt 8.37 in³

Viscosity: Water Loss: Resistivity:

ohm.m

Salinity: Filter Cake: 6400.00 ppm inches Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

35 deg API ppm

Water Salinity:

psig

ft

ldd

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
116.00	HOCM, 40%O 60%M	0.570
95.00	MCO, 40%M 60%O	1.347

Total Length:

211.00 ft

Total Volume:

1.917 bbl

Num Fluid Samples: 0

Num Gas Bombs: Laboratory Location:

Laboratory Name:

Recovery Comments:

Serial #:

Trilobite Testing, Inc

Ref. No:

63148



Prepared For: Palomino Petroleum, Inc.

4924 SE 84th St. Newton, KS 67114

ATTN: Aaron Young

McJunkin #1

15-20S-22W Ness,KS

Start Date: 2018.09.10 @ 05:44:56

End Date: 2018.09.10 @ 14:48:26

Job Ticket #: 63149 DST #: 2

Trilobite Testing, Inc.

1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum, Inc.

15-20S-22W Ness,KS

4924 SE 84th St. New ton, KS 67114 McJunkin #1 Job Ticket: 63149

DST#: 2

ATTN: Aaron Young

Test Start: 2018.09.10 @ 05:44:56

GENERAL INFORMATION:

Formation:

Mississippian

Deviated:

No Whipstock: ft (KB)

Test Type:

Conventional Bottom Hole (Reset)

Time Tool Opened: 09:15:26

Tester: 73

Brannan Lonsdale

Time Test Ended: 14:48:26

Unit No:

Interval: Total Depth: 4405.00 ft (KB) To 4417.00 ft (KB) (TVD)

Reference Elevations:

2248.00 ft (KB)

4417.00 ft (KB) (TVD)

2237.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

11.00 ft

Serial #: 6753

Press@RunDepth:

Outside

4406.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time: 273.16 psig @ 2018.09.10 05:45:01

End Date: End Time: 2018.09.10 14:48:26 Last Calib.:

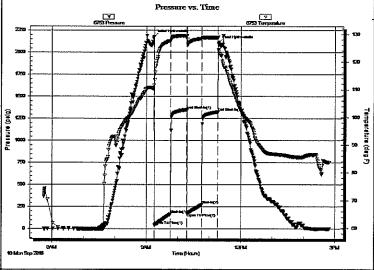
2018.09.10

Time On Btm: Time Off Btm: 2018.09.10 @ 09:14:26 2018.09.10 @ 11:17:56

TEST COMMENT: 30- IF- Slow ly built to 5.5" then slow ly died back to 3.5"

30- ISI- Surface blow died 1min 30- FF- Slow ly built to 1.5"

30- FSI- Slow ly built to 1" then slow ly died back to .25"



	PRESSURE SUMMARY						
DB	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
C/B	0	2176.12	111.53	Initial Hydro-static			
	1	41.47	113.58	Open To Flow (1)			
110	32	168.79	127.59	Shut-ln(1)			
-4	63	1351.19	129.48	End Shut-In(1)			
	64	177.24	128.13	Open To Flow (2)			
Temperature (deg.F) B s	91	273.16	128.40	Shut-In(2)			
• <u>•</u>	122	1325.23	128.83	End Shut-In(2)			
	124	2113.15	123.77	Final Hydro-static			
9							
9							

Recovery

Description	Volume (bbl)
WOCM, 15%W 35%O 50%M	1.05
CGO, 30%G 70%O	8.08
475' GIP	0.00
	WOCM, 15%W 35%O 50%M CGO, 30%G 70%O

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

Gas Rates

Trilobite Testing, Inc. Ref. No: 63149 Printed: 2018.09.11 @ 10:17:12



Palomino Petroleum, Inc.

4924 SE 84th St. New ton, KS 67114

ATTN: Aaron Young

15-20S-22W Ness,KS

McJunkin #1

Job Ticket: 63149

DST#: 2

Test Start: 2018.09.10 @ 05:44:56

GENERAL INFORMATION:

Time Tool Opened: 09:15:26

Time Test Ended: 14:48:26

Formation:

Mississippian

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Brannan Lonsdale

Unit No:

73

Reference Elevations:

2248.00 ft (KB)

2237.00 ft (CF)

KB to GR/CF:

11.00 ft

Interval: Total Depth: 4405.00 ft (KB) To 4417.00 ft (KB) (TVD) 4417.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 6771

Inside

Press@RunDepth:

psig @

4406.00 ft (KB)

2018.09.10

Capacity: Last Calib.: 8000.00 psig

Start Date:

2018.09.10

End Date:

Time On Btm;

2018.09.10

Start Time:

05:44:06

End Time:

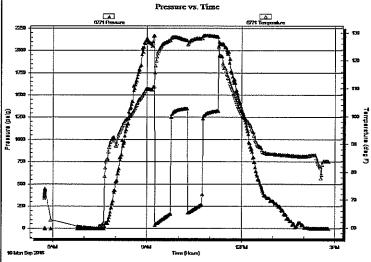
14:47:25

Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 5.5" then slow ly died back to 3.5"

30- ISI- Surface blow died 1min 30- FF- Slow ly built to 1.5"

30- FSI- Slow ly built to 1" then slow ly died back to .25"



	PRESSURE SUMMARY							
	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
Temp		:						
Temperatura (dag F)								
â								
"								

Recovery

Description	Volume (bbl)
WOCM, 15%W 35%O 50%M	1.05
CGO, 30%G 70%O	8.08
475' GIP	0.00
	WOCM, 15%W 35%O 50%M CGO, 30%G 70%O

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

Trilobite Testing, Inc.

Ref. No: 63149



Palomino Petroleum, Inc.

15-20S-22W Ness,KS

4924 SE 84th St. New ton, KS 67114

McJunkin #1 Job Ticket: 63149

DST#; 2

TOOL DIAGRAM

ATTN: Aaron Young

Test Start: 2018.09.10 @ 05:44:56

Tool Information

Drill Pipe:

Length: 4281.00 ft Diameter:

3.82 inches Volume:

60.68 bbl

Tool Weight:

2500.00 lb

Heavy Wt. Pipe: Length: Drill Collar:

Length:

ft Diameter: 116.00 ft Diameter:

inches Volume: 2.25 inches Volume:

- bbl 0.57 bbl Weight set on Packer: 25000.00 lb Weight to Pull Loose: 67000.00 lb

Drill Pipe Above KB:

20.00 ft

Total Volume: - bbl Tool Chased

0.00 ft

Depth to Top Packer:

4405.00 ft

String Weight: Initial

63000.00 lb

Depth to Bottom Packer: Interval between Packers:

12.00 ft

Final 64000.00 lb

Tool Length: Number of Packers: 40.00 ft 2

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4378.00		
Shut In Tool	5.00			4383.00		
Hydraulic tool	5.00			4388.00		
Jars	5.00			4393.00		
Safety Joint	3.00			4396.00		
Packer	5.00			4401.00	28.00	Bottom Of Top Packer
Packer	4.00			4405.00		
Stubb	1.00			4406.00		
Recorder	0.00	6771	Inside	4406.00		
Recorder	0.00	6753	Outside	4406.00		
Perforations	8.00			4414.00		
Bullnose	3.00			4417.00	12.00	Bottom Packers & Anchor

Total Tool Length:

40.00

Trilobite Testing, Inc.

Ref. No: 63149



Palomino Petroleum, Inc.

15-20S-22W Ness,KS

4924 SE 84th St. New ton, KS 67114 McJunkin #1 Job Ticket: 63149

Serial #:

DST#: 2

FLUID SUMMARY

38 deg API

24000 ppm

ATTN: Aaron Young

Test Start: 2018.09.10 @ 05:44:56

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

Viscosity:

9.00 lb/gal 72.00 sec/qt

8.36 in³

Water Loss: Resistivity: Salinity:

Filter Cake:

ohm.m 6400.00 ppm inches Cushion Type:

Cushion Length: Cushion Volume:

bbl

Gas Cushion Type: Gas Cushion Pressure:

psig

ft

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	WOCM, 15%W 35%O 50%M	1.052
570.00	CGO, 30%G 70%O	8.080
0.00	475' GIP	0.000

Total Length:

720.00 ft

Total Volume:

9.132 bbl

Num Fluid Samples: 0

Laboratory Name:

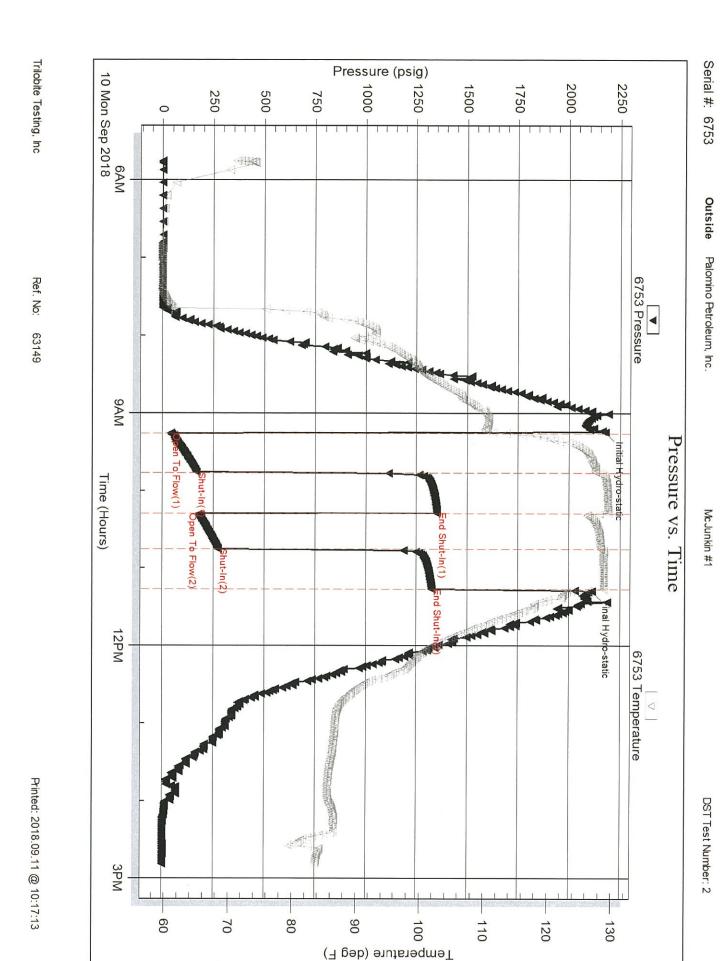
Num Gas Bombs: 0

Laboratory Location:

Recovery Comments: RW: .23@82deg

Trilobite Testing, Inc.

Ref. No: 63149



Temperature (deg F)



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

Test Ticket

NO. 63148

4/10	1515 00		vay • nays, Nansas o	7001		00140	
Well Name & No. Λ	McJun	(m #1		Test No	1	Date q /	9/18
Company Palen	ino Pe	troloun,		Elevation		17.	2237 GL
Address <u>4924</u>	SE I	84th 51.	Newton, K.S. 6	A			
Co. Rep / Geo. AG	iron K	>600161	<i></i>	Rig_ねん	1414		
Location: Sec.	15	гwp. <u>20</u>	S Rge. 22	<u> </u>		Ve55 State _	K5
Interval Tested	4320-	4405	Zone Tested	Massissip			
Anchor Length	8	ہ سرد 5	Drill Pipe Run	1	4186	Mud Wt.	94
Top Packer Depth		315	•	ın	116	Vis	
Bottom Packer Depth_		· ·				WL	C2 11
Total Depth	40	105		6400pr	om System	LCM	175
Blow Description I	F-Slow	by bar H	to 10"		•		
T51	F-No	Klow					
<u> </u>	<u> Bot</u>	3 23 mm	5. (14/4")				
<u> </u>	<u>- No</u>	blow					
Rec116	Feet of HO	CM		%gas	40%oil	%water	├ ि%mud
Rec95	Feet of <u>\M</u>	.CO		%gas	GC mil	%water	₹7%mud
Rec	Feet of			%gas	%oil	%water	%mud
Rec	Feet of			%gas	%oil	%water	%mud
Rec	Feet of			%gas	%oil	%water	%mud
Rec Total21	<u> </u>	внт 1190	Gravity <u>35</u>	API RW	@°	F Chlorides	
A) Initial Hydrostatic_		2184				ocation	200
B) First Initial Flow					 T-Star	ted	1338
C) First Final Flow		<u>74</u>	. Safety Joint	75		ħ	184
D) Initial Shut-In		1340	Circ Sub		T-Pullo	od	
E) Second Initial Flow		80	☐ Hourly Standby				234
F) Second Final Flow		97	. Mileage 128		Comm	ients	
G) Final Shut-In		<u> 1333</u>					
H) Final Hydrostatic_		<u> </u>			***************************************		
						ined Shale Packer	
nitial Open		30				lined Packer	
nitial Shut-In		30				tra Copies	
Final Flow		30				otal <u>0</u> 1603	
Final Shut-In							
			Sub Total160		_ 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	ST Disc't	
Approved By				Our Representative			
				0	Lansd	-\n	
				Brannan	m0020	مرالا	



RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO.

63149

Well Name & No. McJunkin 1		Test No	2	Date 0	10/8
Company Palemina Petroleum, T	ivc.	Elevation	2248	KB	2237GL
Address 4924 SE. 84+ Sh Ne	wdon, KS 67				
Co. Rep / Geo. Davon Woung	•	Rig W	h 14		
Location: Sec Twp S	Rge. <u>22</u>	<u>~'</u> c₀	Ne	State _	K5
Interval Tested 4405 - 4417	Zone Tested	Missosijo	Pan		
Anchor Length 2	Drill Pipe Run		lua CI	Лud Wt	9,4
Top Packer Depth 4400	Drill Collars Run		<u>116</u> v	/is	72
Bottom Packer Depth 4/405	Wt. Pipe Run	•	V	VL	8,4
Total Depth 4417	Chlorides	6,400 p	pm System L	.CM	t#
Blow Description IF- Slonly built 1	5 5/2" flow	stonly die	d back	3/2	<i>[</i> [
ITI- Surface blow c	Ded Imin	/			
FF-Slouly bailt	也版				
FSF- Stouly boilt A	o l'Hen sk	only clical	back to	<u>/</u> 4"	_
Rec /) Feet of 1/0/1		%gas	35 %oil	// %water	575%mud
Rec 5 / Feet of CG D)()%gas	20 %oil	%water	%mud
Rec Feet of 4)		%gas ·	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
RecFeet of	00	%gas	%oil	%water	%mud
Rec Total 720 BHT 129°	_ Gravity	API RW	_@F(Chlorides	24,CCCppm
(A) Initial Hydrostatic 2176	Test 1150	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	T-On Loc	ation	<u>~a529</u>
(B) First Initial Flow	Ճ Jars250		T-Started		0544
(C) First Final Flow	Safety Joint	5			0919
(D) Initial Shut-In [35]	Circ Sub				
(E) Second Initial Flow	☐ Hourly Standby_				. ,
(F) Second Final Flow 2/3	Mileage 128	RT 128	Commeni 	ts	
(G) Final Shut-In	☐ Sampler				······································
(H) Final Hydrostatic 2113	☐ Straddle		— 🗆 Ruine	ed Shale Packer	
	☐ Shale Packer				
Initial Open	☐ Extra Packer				
Initial Shut-In 37	☐ Extra Recorder _		Sub Total	Δ	
Final Flow 37	☐ Day Standby		-	6N3	
Final Shut-In <u>30</u>	☐ Accessibility				
	Sub Total 1603		_· •	-	
Approved Ry	•				

Our Representative