KOLAR Document ID: 1476776

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	
	Dewatering method used:	
	Location of fluid disposal if nauled offsite:	
	Operator Name:	
GOVV Territt #.	Lease Name: License #:	
Canad Date on Date Decembed TD Completing Date on	Quarter Sec TwpS. R	
Recompletion Date Date Reached ID Completion Date or Recompletion Date	County: Permit #:	
Plug Back Liner Conv. to GSW Conv. to Producer (Data must be collected from the Reserve Pit) Commingled 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: 1476776

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery, Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo		# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	Type of Cement		# Sacks Oseu		Type and refeelt reduitives			
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At Acid, Fracture, Shot, Cementing Sque (Amount and Kind of Material U				Record	
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BLACK GOLD 1
Doc ID	1476776

All Electric Logs Run

Dual Induction
Micro
Dual Receiver Cement
Litho Density Neutron

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BLACK GOLD 1
Doc ID	1476776

Tops

Name	Тор	Datum
Anhy.	1740	(+ 718)
Base Anhy.	1780	(+ 678)
Heebner	3828	(-1370)
Lansing	3871	(-1413)
ВКС	4188	(-1730)
Marmaton	4222	(-1764)
Pawnee	4306	(-1848)
Ft. Scott	4378	(-1920)
Cherokee Sh.	4402	(-1944)
Miss.	4478	(-2020)
LTD	4620	(-2162)

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BLACK GOLD 1
Doc ID	1476776

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	 Type and Percent Additives
Surface	12.250	8.625	23	687	Common	2% gel, 3% c.c.
Production	7.875	5.500	14	4615	SMD/EA-2	2% gel, 3% c.c.



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



Invoice

DATE	INVOICE#
9/19/2019	32358

BILL TO

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

RECEIVED SEP 23 2019

- Acidizing
- Cement
- Tool Rental

TERMS	Well N	ell No. Lease County Cor			Contractor	Contractor Well		W	ell Category	Job Purpose	Operator
Net 30	#1 Blackgold Ness Express Well					Oil		Development		Cement Port Collar	Wayne
PRICE REF. DESCRIPTION							QTY	QTY L		UNIT PRICE	AMOUNT
PRICE REF. 575D 576D-D 105 330 276 290 581D 582D		Port Collar	ge - Deep Tool Ren -Density arge Cem Drayage C	Surface (> 500 ntal With Man Standard (MID ent Charge	Surface (> 500 Ft.) & Port Collars tal With Man Standard (MIDCON II) ent harge			15 1 1 150	Lb(s)	5.00 1,400.00 275.00 17.00 3.00 42.00 1.85 250.00	75.00 1,400.00 275.007 2,550.007 150.007 370.00 250.00 5,196.00 201.57
We A	ppre	ciate Y	our	Busines	s!				Tota		\$5,397.57

TICKET 032358

	ADDRESS	ESS			
Services, Inc.	СІТУ,	CITY, STATE, ZIP CODE		PAGE 1	OF
SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE COUNTY/PARISH	STATE CITY	DATE OV	OWNER
ω ίν	TICKET TYPE CONTRACTOR SERVICE SALES CXPRESS	WELL SERVICE RIGNAMENO.	DELIVERED TO	NO.	C A
4.		JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION	
REFERRAL LOCATION	INVOICE INSTRUCTIONS				
PRICE SECONDARY REFERENCE/ FERENCE PART NUMBER	BEFERENCE/ ACCOUNTING LOC ACCT	G DESCRIPTION	QTY. U/M QTY. U/M	UNIT	AMOUNT
575	-	MILEAGE # 114	15 mg	500	75 00
5760		PUMP CHARGE - PORT COLLAR) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	140000	1400 00
202		PORT COURSE OPENING TOOL	1 768	275 00	275,00
330	-	SWOM MUCTE - DENSON STANDARD	250 ISIS	17 00	2550 00
276		FLOCELE	Soles	3 100	
290		D-ADR	3 64	42 00	126.00
\$81		SERVICE CHARGE CEMPUT	200 285	1 85	370 00
582		MINIMUM DRAYAGE CHARGE	19950 JUS 149.63 mm	250,00	250 00
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,	y acknowledges and agrees to erse side hereof which include,	REMIT PAYMENT TO:	SURVEY AGREE UNDECIDED DISAGREE OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	PAGE TOTAL	5196,00
LIMITED WARRANTY provisions.	(SWIFT SERVICES, INC.	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?		
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.	WER'S AGENT PRIOR TO	P.O. BOX 466 NESS CITY, KS 67560	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	Merss	DU 157
DATE SIGNED TIN	TIME SIGNED TO THE P.M.	785-798-2300	AHE YOU SATISHED WITH OUR SERVICE? VES	TOTAL	5397,57
CUSTOME	R ACCEPTANCE OF MATER	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.	wledges receipt of the materials and services liste	d on this ticket.	

SWIFT OPERATOR WAYNE WILSON

APPROVAL

Thank You!

)	CHILL	T C	DATE PAGE NO.
JOB LO			T				1 Ser	vices. Inc. DATE 9-19-19 PAGE NO.
CUSTON	ZNO PET	1201 sum	WELL NO.	1		BLACK	ear	JOB TYPE TICKET NO. CEMENT PORT COURE 032358
CHART		RATE	VOLUME	PU	MPS	PRESSI	URE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
NO.	15.1	(BPM)	(BBD (GAL)	T	С	TUBING	CASING	
	1315		-		-		-	ON LOCATION
			-		-	-	-	
					_			TUBING - 23/8
								CASING - 51/2"
								PORT COUR - 1727
	1345				1		1000	PSI TEST CASING - HELD
	1310						1000	TSZ TEST CASZNO " HELLS
	13/5	3	4	,		3/2		0.0.0
	1350	3		/		350		OPEN PORT COLLOR - INT RATE
-	150 4 4	- U.	43	_				
-	1355	31/4	83	/		350		Max Cement - 150 sks smp = 11.2 PPG
			,					
-	1415	3	6	/		450		DISPLACE CEMENT
	1420			1		1250		CLOSE PORT GUAR - PSZ TEST - HELD
								CHOWATED LS SKS COMENT TO PET
								CERCUTIES IN SECTION TO 121
	1435	4	20		,		un	RUN 5 JTS - CORCLATE CLEAN
	1133		20		_		700	RUN O JIS " COROCATE CLEAN
х-								
								WASH TRUCK
							2	
_	1530							TOB COMPRETE
							P 2	<u> </u>
								¥ 1
								THINK YOU WAWE, BLAZUE, SHAVE
						//		WANE BLATTLE SHAVE
							:5	
							· .	
								
								<u> </u>
		×						<u> </u>
							ALCOHOLD DATE	



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



Invoice

DATE	INVOICE#	
9/14/2019	32477	

BILL TO

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

RECEIVED

SEP 18 2019

- Acidizing
- Cement
- Tool Rental

TERMS	Well N	lo. Lease	County	Contractor	We	II Type	W	ell Category	Job Purpose	Operator
Net 30	#1	Blackgold	Ness	ww		Oil	D	evelopment	Cement Long Str.	. Blaine
PRICE	REF.		DESCRIPT	TION		QT	Y	UM	UNIT PRICE	AMOUNT
575D 578D-L 403-5 404-5 406-5 407-5 409-5 419-5 330 325 284 283 285 276 290 221 281 581D 582D		Mileage - 1 Way Pump Charge - Lor 5 1/2" Cement Basl 5 1/2" Port Collar 5 1/2" Latch Down 5 1/2" Insert Float 3 5 1/2" Turbolizer 5 1/2" Rotating Hea Swift Multi-Density Standard Cement Calseal Salt CFR-1 Flocele D-Air Liquid KCL (Clayf Mud Flush Service Charge Cer Minimum Drayage Subtotal Sales Tax Ness Cou	Plug & Baffle Shoe With Auto ad Rental y Standard (MII ix) ment Charge				1 2 1 1 12 1 125 100 5 500 50 2 4	Lb(s) Lb(s) Lb(s) Gallon(s)	5.00 1,400.00 275.00 2,500.00 250.00 325.00 90.00 17.00 13.50 40.00 0.25 5.00 3.00 42.00 25.00 1.50 1.85 250.00	75.00 1,400.00 550.007 2,500.007 250.007 325.007 1,080.007 2,125.007 1,350.007 200.007 150.007 440.007 416.25 250.00 12,230.25 655.79

		_
	ADDRESS	
	CANAMO CIOSEN	
	CHARGE IO.	
ï	CHARGE TO:	_

TICKET 032477

	CITY, STATE, ZIP CODE		PAGE OF
s, Inc.			1 2
SERVICE LOCATIONS WELL/PROJECT NO	LEASE BLOCKAGIO COUNTY/PARISH	STATE CITY NEW COM	DATE OWNER
2. TICKET TYPE CONTRACTOR	RIG NAME	DELIVERED T	
	WELL CATEGORY JOB PURPOSE COMMENT DNG STY.	WELL PERMIT NO.	WELL LOCATION
REFERRAL LOCATION INVOICE INSTRUCTIONS		5	
PRICE SECONDARY REFERENCE/ ACCOUNTING PART NUMBER LOC ACCT	TING DESCRIPTION	QTY. U/M QTY. U/M	UNIT AMOUNT
675	MILEAGE TRY IN	15 min	500 7500
578	Punp Charge) 2a	00 Mbl 00 1961
403	Conjust Backet	53 m 2 m	275 00 560,00
404	topt Coller	55 m	00 COB 00 00 00 00
100	which down the & befolk	52 m / ea	300
407	uscut float slock in the	100 FILL 52 in 1 Ca	325,00 325,00
1	TURIOUZER	55/12/00	00/080 1 00/08
1	Kotative head sew-tel	52 in 1/ea	250/00 250/00
LEGAL TERMS: Customer hereby acknowledges and agrees to	DEMIT DAVMENT TO	SURVEY AGREE UNDECIDED	30
the terms and conditions on the reverse side hereof which include,	REMIT FAYMENT TO:	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	PAGE 101AL 3800 25
LIMITED WARRANTY provisions.	SWIFT SERVICES INC	MET YOUR NEEDS? OUR SERVICE WAS	73000
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO		WE OPERATE THE EQUIPMENT	.00
×	7560	CALCULATIONS SATISFACTORILY?	64 Stall
DATE SIGNED TIME SIGNED A.M.	785-798-2300		TOTAL NOW AND
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES	ERIALS AND SERVICES The customer hereby acknowl	The customer hereby acknowledges receipt of the materials and services listed on this ticket.	-
		and oct aloco	פנכת סוו נוווס נוסאפני

SWIFT OPERATOR

APPROVAL

Thank You!



TOKET CONTINUATION

No. 32477

		186	282						 						8	000	_ ภ	298	276	288	293	284	325	330	PRICE	Source	
						оннивания							Name de la constante de la con		***************************************						***************************************				SECONDARY REFERENCE/ PART NUMBER	0 3	
								************										-						-	ACCOUNTING T	Off: 785-798-2300	PO Box 466
	MILEAGE TOTAL WEIGHT	SÉRVICE CHARISE ()	MiRHAGE											*		でです。	KCL Rivid	DIEN	flocale	CFR-1	Sold	Colegal	Standard coment	SIND commed	TIME DESCRIPTION	CUSTOMER Palacino F	
	LONDED MILES	246	(Min)		-					area a a a a a a a a a a a a a a a a a a						-	1						* (forstre)			Arabum	
	TON MILES	CUBIC FEET	100		-				 ***************************************						000	5000	Hr.a)	200	50 1/6	405	300 16	500 16	120 8/	125 82	QTY UM QTY	WELLBlockgold &	
CONTINUATION TOTAL			LS.		-						-						anaer verge	•		***************************************		SE			M/M	blass talog 17	No.
		120	250 %					*****											8	8	†	MOR	-	17 00 2	PRICE	ep19 PAGEZ	11.01
5800 25		4/6 25	75000	***************************************			•		 9999		200	-				75700	10000	84/88	15D 00	250 00	25 00	20000	350 as	212500	AMOUNT	N N	

CUSTOM	Clerit WO P	etrobian	WELL NO.	#)	LEASE	ckgold	JOB TYPE Long dring TICKET NO.
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	PRESS TUBING	URE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2 "	(5)	(DDE) (G/IE)		TOBING	CASING	175665WD mund & 1800 847 1 1
							56+19+ cosper 110:15 #F. 4614'
			25				125 5k 5MD comet \$ 1005k 9A-Z cent 5k+14th cosing 110; to ## 4614' shoet 42' Post coller *69 1726' Catalones 1, 2, 3, 45, 6, 7, 8, 9, 10, 11, 68 Bushed 2, 69
							Controb 2005 1. 2.3 45 678.2 (D. 11. 68 Bushed 2, 69
204	508	8					an loc TRK 114
	2130		_				
	2320						Stad Szx 14# casing in well Dapp ball - circulta- ROTATE
		100					
-Ser	000	4	12			200	Puro 50 gal mostlush Puro 2016/1 KCL flush
		4	20			200	Pup 2016 KCL flesh
		•	# g				0
	0030		7				Plug Pott 305k
		1	1 45				
	0035	5	35			250	Mix 54-2 aut 180 st @ 15.3 pgg
	111	5	24		2	250	Mry SA-2 aut 100 st @ 15.3098
				21			
							Drap botch down play
					- 4	170	washout ling & Line
	0108	le			- 10	200	Displace
		6	90		2 2	500	of the second se
		5	105			900	
	0130	5	111			1500	LAND plug
-					*		. 0
					- 1		Release pressure to truck - direct.
	4100						443041.
4	138		27 84		y		WAGENER
				-14,			D. 1
		, ,					the up
54	011		2 2 2 2				
	0215	4.2					sobamplete
		***		200			- Harly
	, , , , , , , , , , , , , , , , , , ,				*		Along Flind & Russell



Remit To: Hurricane Services, Inc.

250 N. Water, Suite 200 Wichita, KS 67202 316-303-9515

RECEIVED

SEP 25 2019

Customer:

PALOMINO PETROLEUM INC 4924 SE 84TH ST

NEWTON, KS 67114-8827

Invoice Date: Invoice #: Lease Name: Well #: County: Job Number: 9/5/2019 0343628 Black Gold 1 (New) Ness ICT2345

		•	
Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Cement pump 266	1.000	637.500	637.50
Light Eq Mileage	30.000	1.700	51.00
Heavy Eq Mileage	30.000	3.400	102.00
Ton Mileage	553.970	1.275	706.31
H-CON	170.000	17.850	3,034.50
H-325	200.000	17.000	3,400.00
Wooden plug 8 5/8"	1.000	127.500	127.50

Total 8,058.81

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.



HURRICANE SERVICES INC

			E SUCE				L JEHTTCEJ III						
Customer	Palamino Petroleu	m Inc	Leas	se & Well #	Black	Gold #1				Date	9	/5/2019	
Service District	Oakley, KS		Cour	nty & State	Ness,	KS	Legals S/T/R	Sec 10 - T1	9S - R25W	Job#			
Job Type	Surface	☑ PROD	□ INJ		□ SWI)	New Well?	≥ YES	□ No	Ticket#	10	CT2345	
Equipment #	Driver				Jo	b Safety	Analysis - A Discus	ssion of Hazards	& Safety Pro	ocedures	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
74	Scott Green	☐ Hard hat			☐ Glov	es		□ Lockout/Tag	out	□ Warning Signs	& Flagging		,
266	Michael Rebarchel		r		☐ Eye	Protection	n	Required Per	mits	□ Fall Protection			
194 / 254		☑ Safety Footy			Resp	iratory P	rotection	□ Slip/Trip/Fall	Hazards	□ Specific Job Se	quence/Expe	ctations	1
		□ FRC/Protect		g			emical/Acid PPE	Overhead Ha	zards	□ Muster Point/N	Medical Locati	ons	
		☐ Hearing Pro	tection		□ Fire	Extinguis	And the second state of the second state of the second	and the second s	oncerns or issu	ues noted below			
					-		Coi	mments					
						Direction	ns: Laird, KS - west	to J Rd, 2 miles	south, west	into.			
Product/ Service Code		De	escription				Unit of Measur	e Quantity				Net A	mount
C010	Cement Pump						ea	1.00					\$637.50
M015	Light Equipment Mile	eage					mi	30.00		,= 1.			\$51.00
M010	Heavy Equipment M	lileage					mi	30.00					\$102.00
M020	Ton Mileage						tm	553.97					\$706.31
00000													
CP025	H-Con						sack	170.00	-			\$3	3,034.50
CP015	H-325						sack	200.00	-			\$3	3,400.00
FE290	8 5/8" Wooden Plug						+	4.00					
	0 3/0 Wooden Flug						ea	1.00	-				\$127.50
									 				
							-						
									ļ				
					-				-				
Custo	mer Section: On the	following scal	e how wor	ıld vou rate	Hurrica	ne Servic	es Inc ?				N		
								Total Taxable	\$ -	Tax Rate:	Net:		3,058.81
Bas	sed on this job, how	likely is it yo	u would r	ecommend	HSI to	a collea	gue?			ucts and services	Sale Tax:	\$	-
								Services relies on	the customer p				
Ur	alikely 1 2 3	3 4 5	6	7 8	9	10	Extremely Likely	information above and/or products a		ermination if services	Total:	\$ 8	,058.81
								HSI Panras	antativo:	Carte Carr			
CEDMS. Cook in advan								HSI Represe	enalive.	Scott Green			

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is invested and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discounts is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of rox omparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is no location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x It Nuclin

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT											
Cust	omer:	Palamin	o Petro	leum Inc	Well:		Black Gold #1		Ticket:	I	CT2345
City,	State:	Newton,	KS		County:		Ness, KS		Date:	9	/5/2019
Field	l Rep:	Jon Nice	odemus	5	S-T-R:	Sec	10 - T19S - R2	25W	Service:		Surface
-						7.50 045 650					
	nnole i Size:	nformatio	STOLENS OF THE		Calculate	THE REAL PROPERTY.		Proc	luct	%/#	# #
Hole D		12.25 687			Weight:	13.0		Class A		100.00	15980
Casing		8 5/8			Water / Sx:		gal / sx ft³ / sx	Poz			
Casing D		686.42			Yield: Bbls / Ft.:	0.0735	nt / sx	CaCl		0.00	
Tubing /		000.42	in		Depth:	687	-	Gypsum		3.00	479
	epth:		ft		Annular Volume:	50.4945		Metso		2.00	320 320
Tool / Pa	acker:				Excess:	00.4545	-	Kol Seal		0.25	40
E.	epth:		ft		Total Slurry:	61.0	bbls	Flo Seal	-	0,23	40
Displace	ment:	42.6	bbls		Total Sacks:	170		Salt (bww)		
										Total	17,139
					Calculated	d Slurry		Prod	luct	%/#	#
					Weight:	14.8	#/sx	Class A		100.00	18800
					Water / Sx:		gal / sx	Poz			
					Yield:		ft ³ / sx	Gel		2.00	376
					Bbls / Ft.:	0.0735		CaCl		3.00	564
					Depth:	687	ft	Gypsum			
					Annular Volume:	50.4945	bbls	Metso			
					Excess:			Kol Seal		0.25	47
					Total Slurry:	50.2	bbls	Flo Seal			
					Total Sacks:	200	sx	Salt (bww)		
										Total	19,787
-	RATE	PSI	BBLs				REMARKS	5			
15:00				Called for job							
17:00				Depart Oakley	yard						
19:00 19:05				Arrive on locn							
19:10					noving on, spotting & rig	gging up equ	pment				
19:30				Rig-up comple	& rig up equipment						
19:45				Rig TD 12 1/4"				-			
19:55				Rig performing							
21:45				Rig TOH w/ DF							
22:25				Rig RIH w/ csg							
0:10				Casing @ setti							
0:20		150.0		Circulate & co							
0:30	2,0	50.0	5.0	Pump water					-	200 10 -727230	
0:35	4.5	315.0	61.0	Mix & pump 17	'0sx @ 13.0ppg. Y - 2.01	cuft/sk, MW -	11.36g/sk				
0:50	5.5	625.0	50,0		0sx @ 14.8ppg. Y - 1.41						
1:00				Release wood	en plug						
1:02	4.0	450.0		Displace w/ wa	iter						
1:05	3.5	260.0	13.0	Cement return	s to surface Note: 29bbl	s / 80sx of ce	ment circulated t	o surface.			
1:15			42.6	Shutdown & s	hut-in						
1:20				Wash-up pump							
1:35					igging down & racking u	up equipment					
1:40					ck up equipment						
2:00					ourney management						
2:15				Depart locn							
				Thanks for cal	ling Hurricane Services	Inc					
	1 0 0 0 0 m	COEN			<u></u>						
		CREW	The second second		UNIT			1	SUMMARY		
	enter:	Scot	tt Green		74		Average Rate	Average I	Pressure	Total	
Pump Ope		Scot	The second second	archek	THE RESIDENCE OF THE PARTY OF		Average Rate 3.9 bpm	Average I	Pressure	Total	Fluid bbls



Geologist

Ness City, Kansas

Andrew Stenzel



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

Well Name: Black Gold #1

API: 15-135-26078-00-00

Location: SW-SE-NE-SW Sec. 10-19S-25W (Ness County)

License Number: 30742

Region: KANSAS Spud Date: 9/5/19 Drilling Completed: 9/15/19

Surface Coordinates: 1611' FSL & 2016' FWL

Bottom Hole

Coordinates:

Ground Elevation (ft): 2453 K.B. Elevation (ft): 2458 Total Depth (ft): 4620 Logged Interval (ft): 3500 To: TD

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:

9/5/19 MIRU, ran surface casing

9/6/19 Waiting on cement

9/7/19 Drilling @ 1925'

9/8/19 Drilling @ 2585'

9/9/19 Drilling @ 3385'

9/10/19 Drilling @ 3965'

9/11/19 Drilling @ 4345'

9/12/19 DST #1

9/13/19 DST #2, DST #3

9/14/19 Ran electric logs, DST #4

9/15/19 Ran Production Casing

Services

RIG: Murfin Drilling, DBA WW Drilling, Rig #102

MUD: MUDCO

LOGS: Gemini Wireline; CNDL, PE, DIL, ML

Casing Record

SURFACE Casing: Ran 16 jts new 8 5/8", 23# casing @ 687'.

PRODUCTION Casing: Ran 110 jts new 5 1/2", 14# casing set at 4615'.

Formation Tops

Sample To	ops	LogTops						
Anhy.	1741 (+717)	Anhy.	1740 (+718)					
Base Anhy.	1779 (+679)	Base Anhy.	1780 (+678)					
Heebner	3830 (-1372)	Heebner	3828 (-1370)					
Lansing	3870 (-1412)	Lansing	3871 (-1413)					
BKC	4187 (-1729)	BKC	4188 (-1730)					
Marmaton	4218 (-1760)	Marmaton	4222 (-1764)					
Pawnee	4305 (-1847)	Pawnee	4306 (-1848)					
Ft. Scott	4379 (-1921)	Ft. Scott	4378 (-1920)					
Cher. Sh.	4405 (-1947)	Cher. Sh.	4402 (-1944)					
Miss.	4477 (-2019)	Miss.	4478 (-2020)					
RTD	4620 (-2162)	LTD	4620 (-2162)					



Palomino Petroleum

10- 19 S. - 25 W. Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65552

DST#:1

ATTN: Andrew Stenzel

Test Start: 2019.09.11 @ 20:40:00

GENERAL INFORMATION:

Formation:

Ft. Scott

Deviated:

No Whipstock: ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Martine Salinas

Unit No:

82

Reference Bevations:

2458.00 ft (KB)

2453.00 ft (CF)

Time Test Ended: 06:25:00 Interval:

Time Tool Opened: 22:44:40

4355.00 ft (KB) To 4412.00 ft (KB) (TVD)

4412.00 ft (KB) (TVD)

7.88 inchesHole Condition: Good

KB to GR/CF:

5.00 ft

Serial #: 8734

Outside Press@RunDepth:

832.75 psig @

4356.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

Total Depth:

Hole Diameter:

2019.09.11

20:40:01

End Date: End Time:

2019.09.12 06:25:00

Last Callb .: Time On Btm:

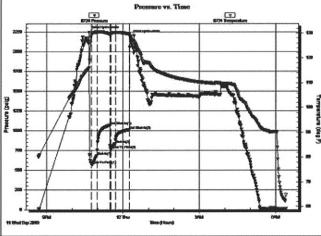
2019.09.12 2019.09.11 @ 22:39:50

Time Off Btm:

2019.09.12 @ 00:17:10

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 30 secs (blow increased to 671") GTS @ 15 mins 30-ISI-B.O.B (11 inches) ASASI (blow increased to 62 1/2" & decreased to 7")

15-FF-B.O.B (11 inches) ASAO (blow increased to 338") 30-FSI-B.O.B (11 inches) @ 1 mins (blow increased to 251 1/2")



	٠.	12000	C COMMONT	
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation	
0	2245.10	115.97	Initial Hydro-static	
5	571.57	128.99	Open To Flow (1)	
19	681.34	130.43	Shut-in(1)	
49	1065.29	129.74	End Shut-In(1)	
51	765.76	129.41	Open To Flow (2)	
62	832.75	130.28	Shut-In(2)	
95	1010.61	129.59	End Shut-In(2)	
98	2190.72	128.30	Final Hydro-static	
	1 1			

Recovery

181.00 GMCO 32%G, 25%M, 43%O 1.46 2804.00 CGO 25%G,75%O 0-40 MINS REVERSE039.33 15.00 CGO 15%G, 85%O 0.21	Description	Volume (bbl)
15.00 OGO 15%G, 85%O 0.21	GMOO 32%G, 25%M, 43%O	1.46
	OGO 25%G,75%O 0-40 MINS REV	ERSED39.33
0.00 4000/ 0/10	OGO 15%G, 85%O	0.21
0.00 1000 GP 0.00	1000' GIP	0.00
0.00		GMCO 32%G, 25%M, 43%O CGO 25%G,75%O 0-40 MINS REV CGO 15%G, 85%O

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65552

Printed: 2019.09.12 @ 06:58:54



Palomino Petroleum

10- 19 S. - 25 W. Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65553

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.09.12 @ 19:45:00

GENERAL INFORMATION:

Time Tool Opened: 21:37:20

Time Test Ended: 02:26:00

Formation:

Mississipian

Deviated:

Whipstock: No

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Martine Salinas

Unit No:

82

Reference Bevations:

2458.00 ft (KB)

Total Depth:

Interval:

4481.00 ft (KB) To 4493.00 ft (KB) (TVD)

4493.00 ft (KB) (TVD)

2453.00 ft (CF)

Hole Diameter:

7.88 inchesHole Condition: Good

KB to GR/CF:

5.00 ft

Serial #: 8734

Outside Press@RunDepth:

76.72 psig @

4482.00 ft (KB)

Capacity: 2019.09.13

8000.00 psig

Start Date: Start Time:

2019.09.12 19:45:01

End Date: End Time:

02:26:00

Last Calib .: Time On Btm:

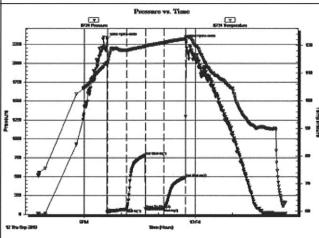
2019.09.13 2019.09.12 @ 21:36:40

Time Off Btm:

2019.09.12 @ 23:45:00

TEST COMMENT: 30-IF-1/4" blow dead @ 24 mins

30-ISI-No blow back 30-FF-No blow 30-FSI-No blow back



PRESSURE SUMMARY

•	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	
	0	2316.97	113.80	Initial Hydro-static	
	1	30.94	113.35	Open To Flow (1)	
	32	66.65	118.21	Shut-In(1)	
	63	780.18	119.51	End Shut-In(1)	
ď	64	72.88	119.74	Open To Flow (2)	
Temperature	93	76.72	120.95	Shut-In(2)	
ā	128	488.15	122.27	End Shut-In(2)	
	129	2296.18	123.10	Final Hydro-static	
				W.	

Recovery

Description	Volume (bbl)
GOOM 15%G, 25%O, 60%M	0.30
OGO 20%G, 80%O	1.44
	GOCM 15%G, 25%O, 60%M

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65553

Printed: 2019.09.13 @ 03:51:39



Palomino Petroleum

10-19 S. - 25 W. Ness, KS

4924 SE 58th St.

Black Gold #1 Job Ticket: 65554

Newton, KS 67114

DST#:3

ATTN: Andrew Stenzel

Test Start: 2019.09.13 @ 10:20:00

GENERAL INFORMATION:

Formation:

Lower Mississipian

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 12:26:10

Tester:

Martine Salinas

Time Test Ended: 16:16:30

Unit No:

82

4494.00 ft (KB) To 4502.00 ft (KB) (TVD)

Reference Bevations:

2458.00 ft (KB)

Interval: Total Depth:

4502.00 ft (KB) (TVD)

2453.00 ft (CF)

Hole Diameter:

7.88 inchesHole Condition: Good

KB to GR/CF:

5.00 ft

Serial #: 8734 Press@RunDepth: Outside

31.91 psig @

4495.00 ft (KB)

Capacity: 2019.09.13 Last Calib .: 8000.00 psig

Start Date:

2019.09.13

End Date:

16:16:30

Time On Btm: 2019.09.13 @ 12:25:50

2019.09.13

Start Time:

10:20:01

End Time:

Time Off Btm:

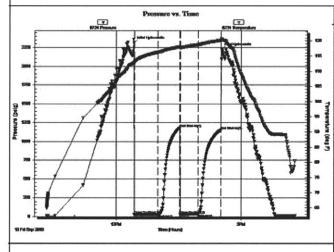
2019.09.13 @ 14:32:00

TEST COMMENT: 30-IF-Weak surface blow built to 1/4"

30-ISI-No blow back

30-FF-No blow @ 5 mins, Flushed tool, maintained surface blow

30-FSI-No blow back



PRESSURE SUMMARY

	Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation	
	0	2311.67	113.06	Initial Hydro-static	
	1	28.85	112.51	Open To Flow (1)	
	34	27.56	116.24	Shut-in(1)	
	66	1181.10	118.06	End Shut-In(1)	
	67	30.95	117.81	Open To Flow (2)	
	92	31.91	118.70	Shut-In(2)	
	125	1152.32	120.15	End Shut-In(2)	
	127	2224.52	120.31	Final Hydro-static	
		29			
ı		1			

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GOCWM 5%G,5%O,40%W,50%O	0.05
		-
Recovery from r	nultiple tests	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65554

Printed: 2019.09.13 @ 18:01:30



Palomino Petroleum

10- 19 S. - 25 W. Ness, KS

4924 SE 58th St.

Black Gold #1 Job Ticket: 65555

New ton, KS 67114

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.09.14 @ 06:56:00

GENERAL INFORMATION:

Formation:

Lower Mississipian

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Straddle (Reset)

7.88 inchesHole Condition: Fair

Tester: Unit No: Martine Salinas

Time Tool Opened: 09:02:20 Time Test Ended: 13:55:00

4496.00 ft (KB) To 4519.00 ft (KB) (TVD)

2458.00 ft (KB)

Interval: Total Depth:

Reference Bevations:

2453.00 ft (CF)

Hole Diameter:

4620.00 ft (KB) (TVD)

KB to GR/CF:

82

5.00 ft

Serial #: 8734

Outside Press@RunDepth:

185.33 psig @

4496.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2019.09.14

End Date:

2019.09.14

Last Calib.: Time On Btm: 2019.09.14

Start Time:

06:56:01

End Time:

13:55:00

2019.09.14 @ 09:02:10

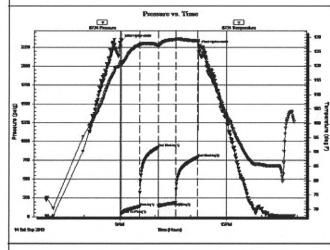
Time Off Btm:

2019.09.14 @ 11:13:20

TEST COMMENT: 30-IF-1/2" blow built to B.O.B(11 inches) @ 16 mins (blow increased to 15"

30-ISI-No blow back

30-FF-S.blow built to 7 1/2" 30-FSI-No blow back



PRESSU	IRE	SUMM	ARY
1 1 1 1 0 0 0	71 12	COMMIN	, ,, , , ,

Time	Pressure	Temp	Annotation
(Mn.)	(psig)	(deg F)	
0	2339.00	121.37	Initial Hydro-static
1	42.40	120.24	Open To Flow (1)
32	135.38	127.36	Shut-In(1)
63	921.38	127.31	End Shut-In(1)
64	139.90	127.07	Open To Flow (2)
93	185.33	129.30	Shut-In(2)
130	789.76	128.73	End Shut-In(2)
132	2259.56	127.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MSW & Oil scum 4%M, 96%W	0.61
297.00	OSMCW 3%O, 20%M, 77%W	4.17
3.00	OGO 2%G, 98%O	0.04
		1.
Recovery from r	multiple tests	

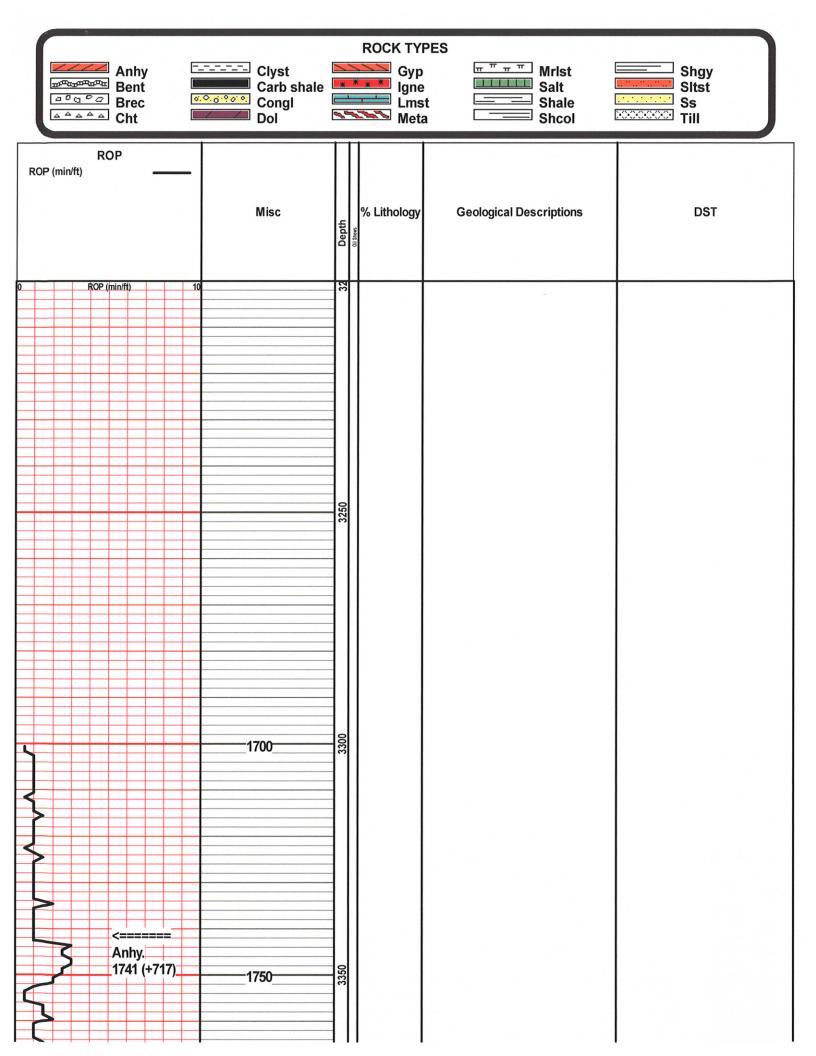
Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65555

Printed: 2019.09.15 @ 00:10:57





Palomino Petroleum

10- 19 S. - 25 W.

Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65554

DST#:3

ATTN: Andrew Stenzel

Test Start: 2019.09.13 @ 10:20:00

GENERAL INFORMATION:

Formation:

Lower Mississipian

Deviated:

Whipstock: No

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 12:26:10

Tester: Martine Salinas

Time Test Ended: 16:16:30

Unit No: 82

Interval:

4494.00 ft (KB) To 4502.00 ft (KB) (TVD)

Reference Bevations:

2458.00 ft (KB)

Total Depth:

4502.00 ft (KB) (TVD)

2453.00 ft (CF)

Hole Diameter:

7.88 inchesHole Condition: Good

KB to GR/CF:

5.00 ft

Serial #: 8734

Press@RunDepth:

31.91 psig @

Outside

4495.00 ft (KB)

Capacity: Last Calib .: 8000.00 psig

Start Date: Start Time: 2019.09.13 10:20:01

End Date: End Time: 2019.09.13 Time On Btm: 16:16:30

2019.09.13 2019.09.13 @ 12:25:50

Time Off Btm:

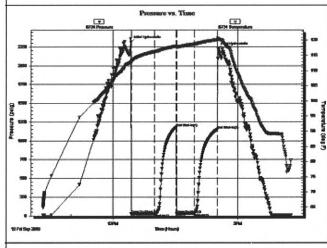
2019.09.13 @ 14:32:00

TEST COMMENT: 30-IF-Weak surface blow built to 1/4"

30-ISI-No blow back

30-FF-No blow @ 5 mins, Flushed tool, maintained surface blow

30-FSI-No blow back



DDESSLIDE SLIMMADY

Time	Pressure	Temp	Annotation
(Mn.)	(psig)	(deg F)	
0	2311.67	113.06	Initial Hydro-static
1	28.85	112.51	Open To Flow (1)
34	27.56	116.24	Shut-in(1)
66	1181.10	118.06	End Shut-In(1)
67	30.95	117.81	Open To Flow (2)
92	31.91	118.70	Shut-In(2)
125	1152.32	120.15	End Shut-In(2)
127	2224.52	120.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GOCWM 5%G,5%O,40%W,50%O	0.05
Recovery from n	w dista tooks	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65554

Printed: 2019.09.13 @ 18:01:30



Palomino Petroleum

10-19 S. - 25 W. Ness, KS

4924 SE 58th St. New ton, KS 67114

Black Gold #1 Job Ticket: 65555

DST#:4

ATTN: Andrew Stenzel

Test Start: 2019.09.14 @ 06:56:00

GENERAL INFORMATION:

Formation:

Lower Mississipian

Deviated:

No Whipstock: ft (KB)

Tester:

Test Type: Conventional Straddle (Reset)

Martine Salinas

Unit No:

82

Reference Bevations:

2458.00 ft (KB)

2453.00 ft (CF)

Time Tool Opened: 09:02:20 Time Test Ended: 13:55:00

Interval:

4496.00 ft (KB) To 4519.00 ft (KB) (TVD)

Total Depth: Hole Diameter: 4620.00 ft (KB) (TVD)

7.88 inchesHole Condition: Fair

KB to GR/CF:

5.00 ft

Serial #: 8734

Outside Press@RunDepth:

185.33 psig @

4496.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2019.09.14 06:56:01

End Date: End Time:

2019.09.14 13:55:00

Last Callb.: Time On Btm:

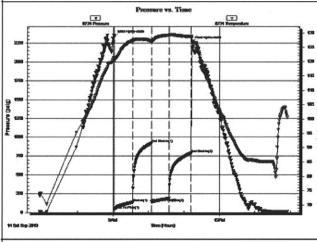
2019.09.14 2019.09.14 @ 09:02:10

Time Off Btmt

2019.09.14 @ 11:13:20

TEST COMMENT: 30-IF-1/2" blow built to B.O.B(11 inches) @ 16 mins (blow increased to 15"

30-ISI-No blow back 30-FF-S.blow built to 7 1/2" 30-FSI-No blow back



PRESSURE SUMMARY

Time	December			
(Mn.)	Pressure (psig)	Temp (deg F)	Annotation	
0	2339.00	121.37	Initial Hydro-static	
1	42.40	120.24	Open To Flow (1)	
32	135.38	127.36	Shut-in(1)	
63	921.38	127.31	End Shut-In(1)	
64	139.90	127.07	Open To Flow (2)	
93	185.33	129.30	Shut-In(2)	
130	789.76	128.73	End Shut-In(2)	
132	2259.56	127.15	Final Hydro-static	
	0 1 32 63 64 93 130	0 2339.00 1 42.40 32 135.38 63 921.38 64 139.90 93 185.33 130 789.76	0 2339.00 121.37 1 42.40 120.24 32 135.38 127.36 63 921.38 127.31 64 139.90 127.07 93 185.33 129.30 130 789.76 128.73	0 2339.00 121.37 Initial Hydro-static 1 42.40 120.24 Open To Flow (1) 32 135.38 127.36 Shut-In(1) 63 921.38 127.31 End Shut-In(1) 64 139.90 127.07 Open To Flow (2) 93 185.33 129.30 Shut-In(2) 130 789.76 128.73 End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MSW & Oil scum 4%M, 96%W	0.61
297.00	OSMCW 3%O, 20%M, 77%W	4.17
3.00	OGO 2%G, 98%O	0.04
Recovery from r	nultiple tests	

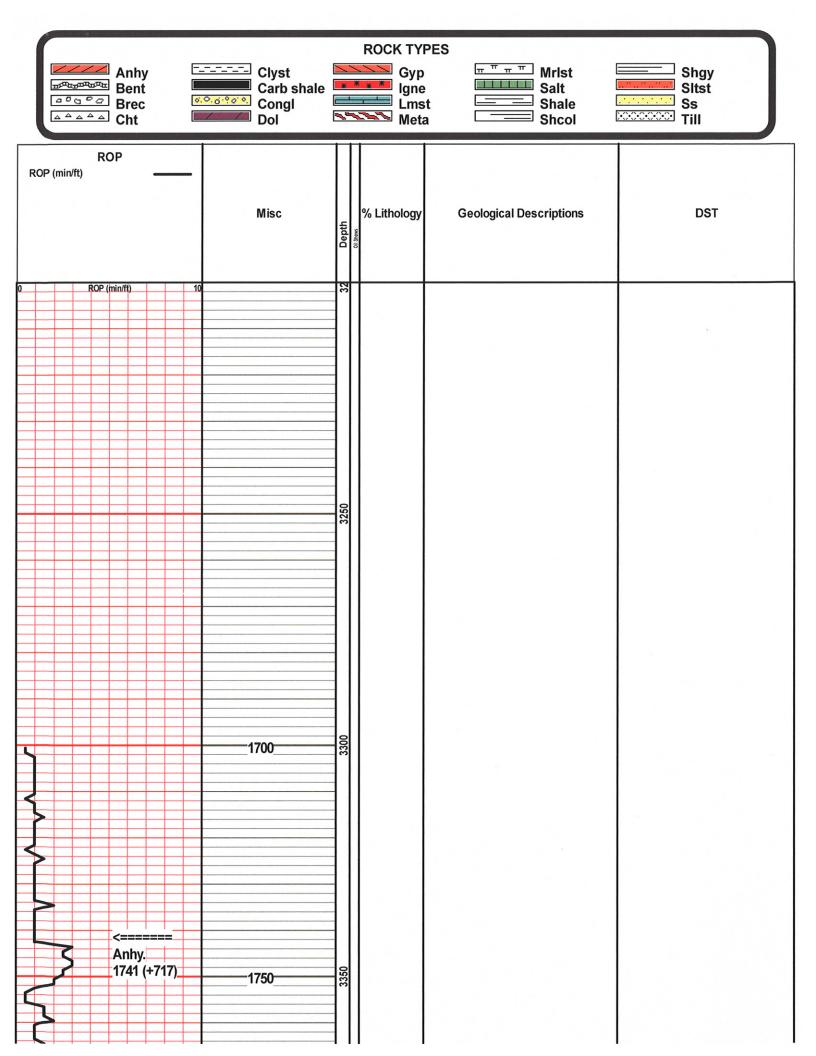
Gas Rates

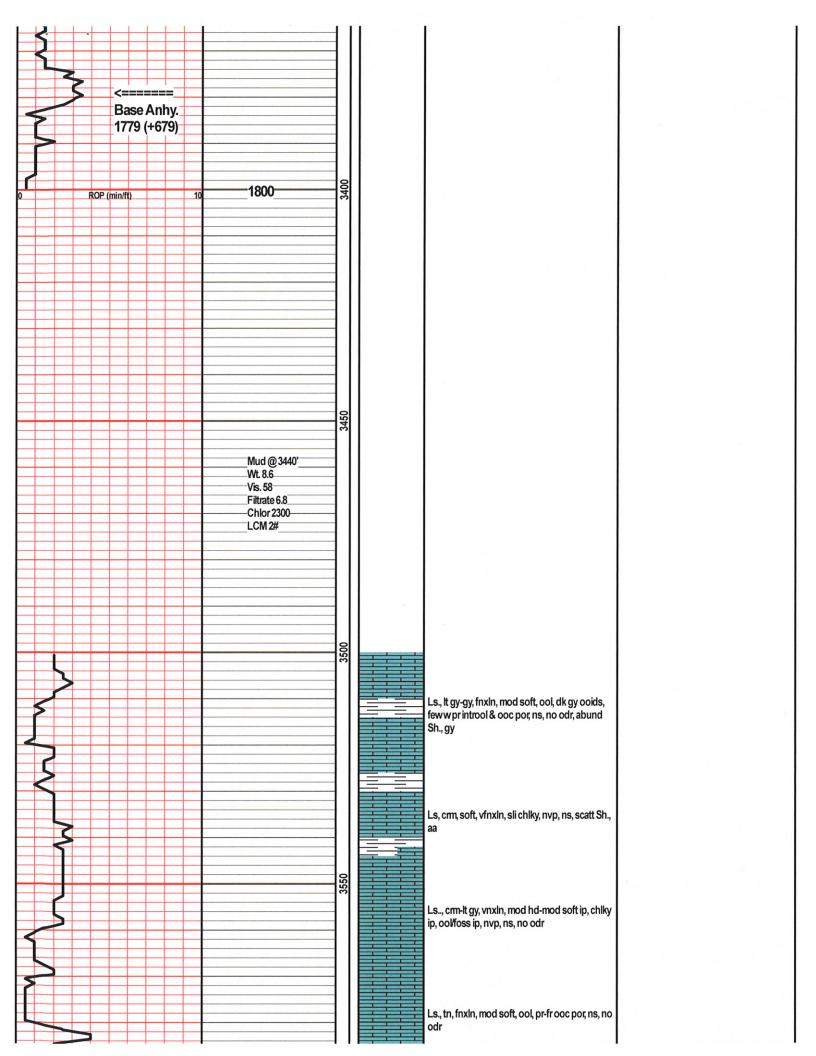
Choke (inches) Pressure (psig) Gas Rate (Mcfd)

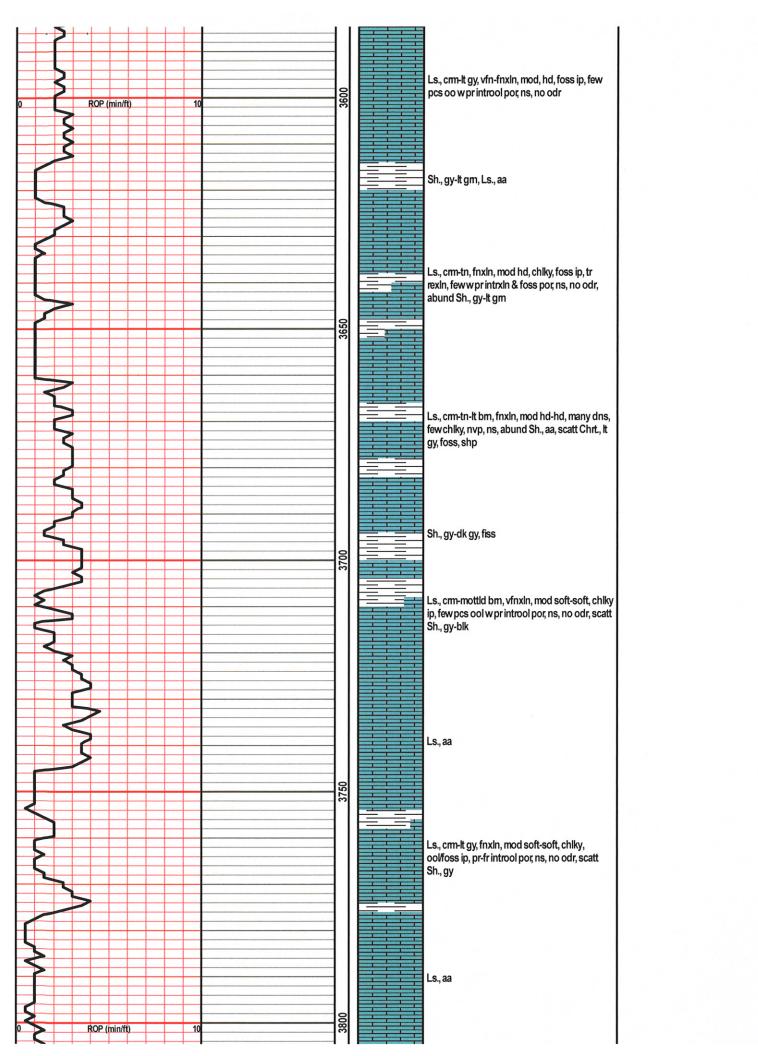
Trilobite Testing, Inc.

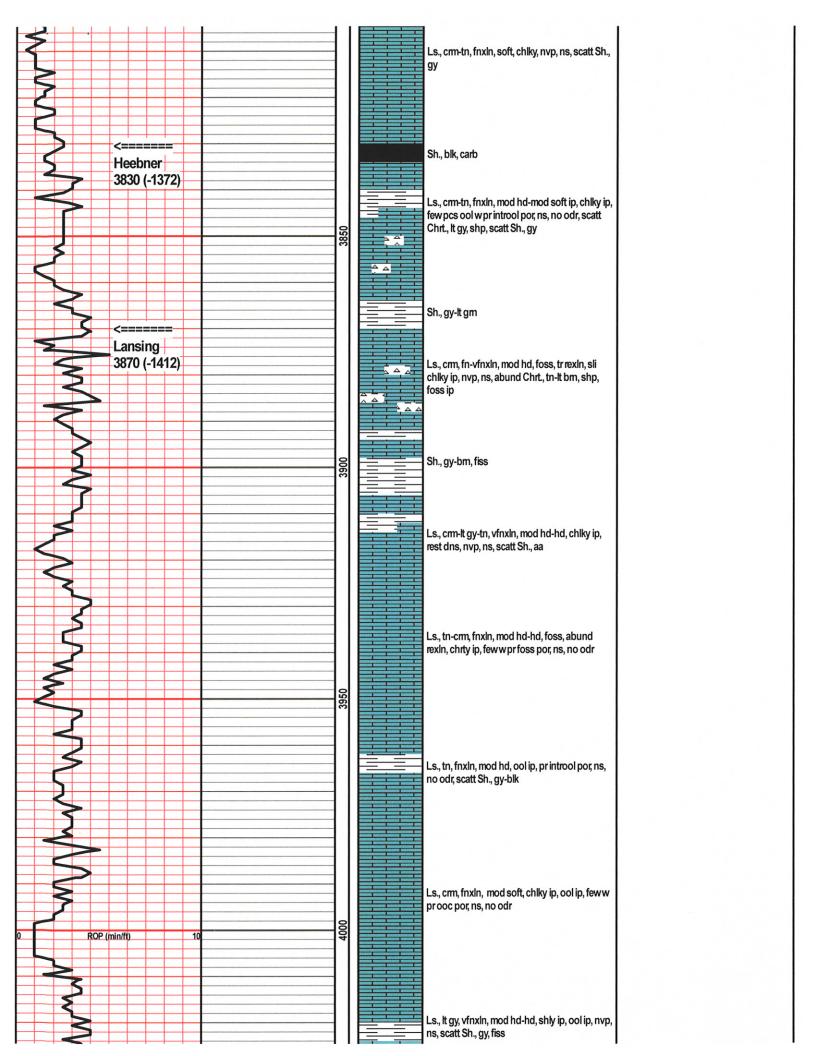
Ref. No: 65555

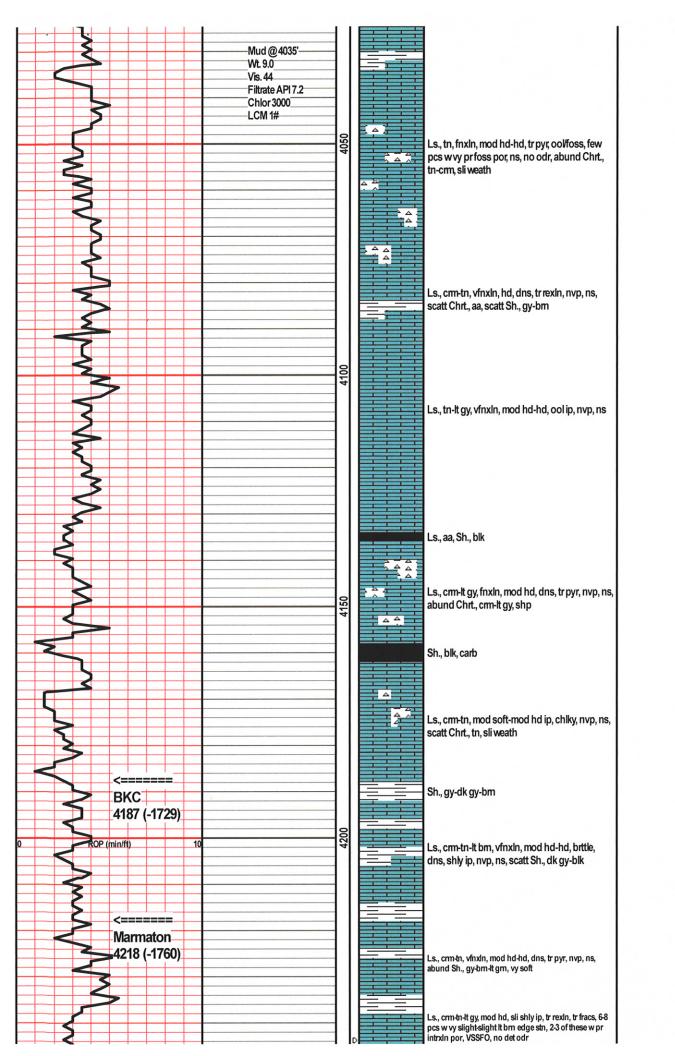
Printed: 2019.09.15 @ 00:10:57

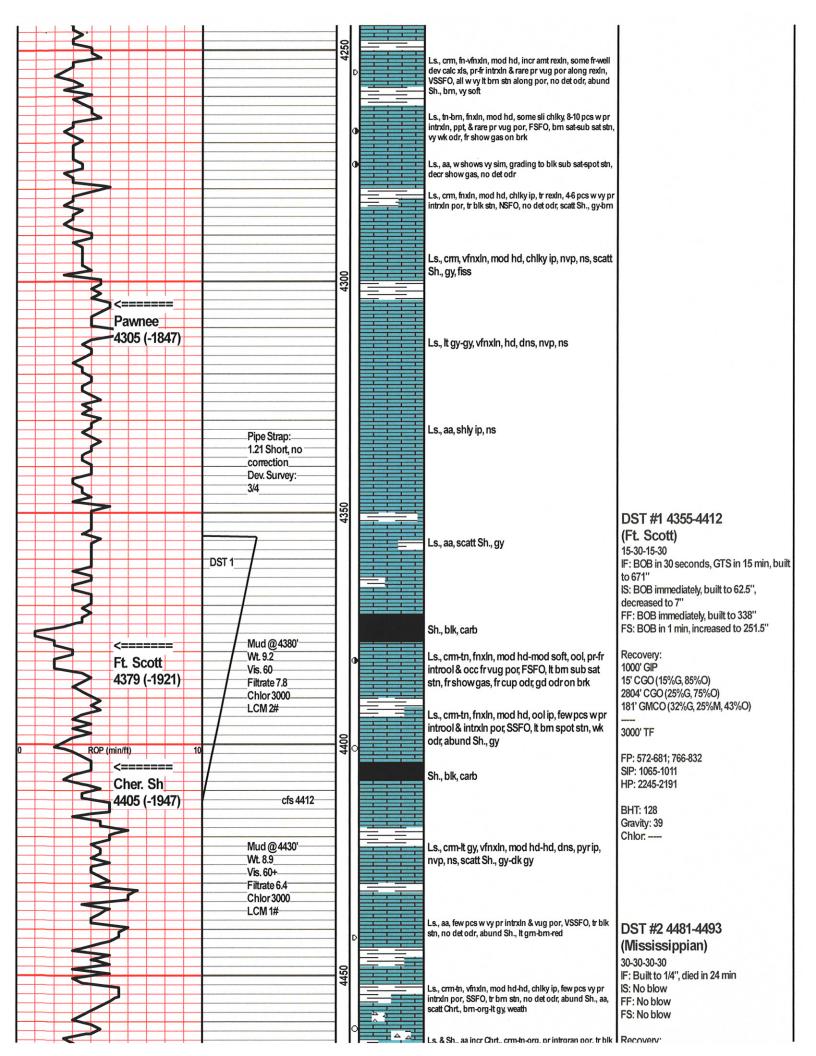


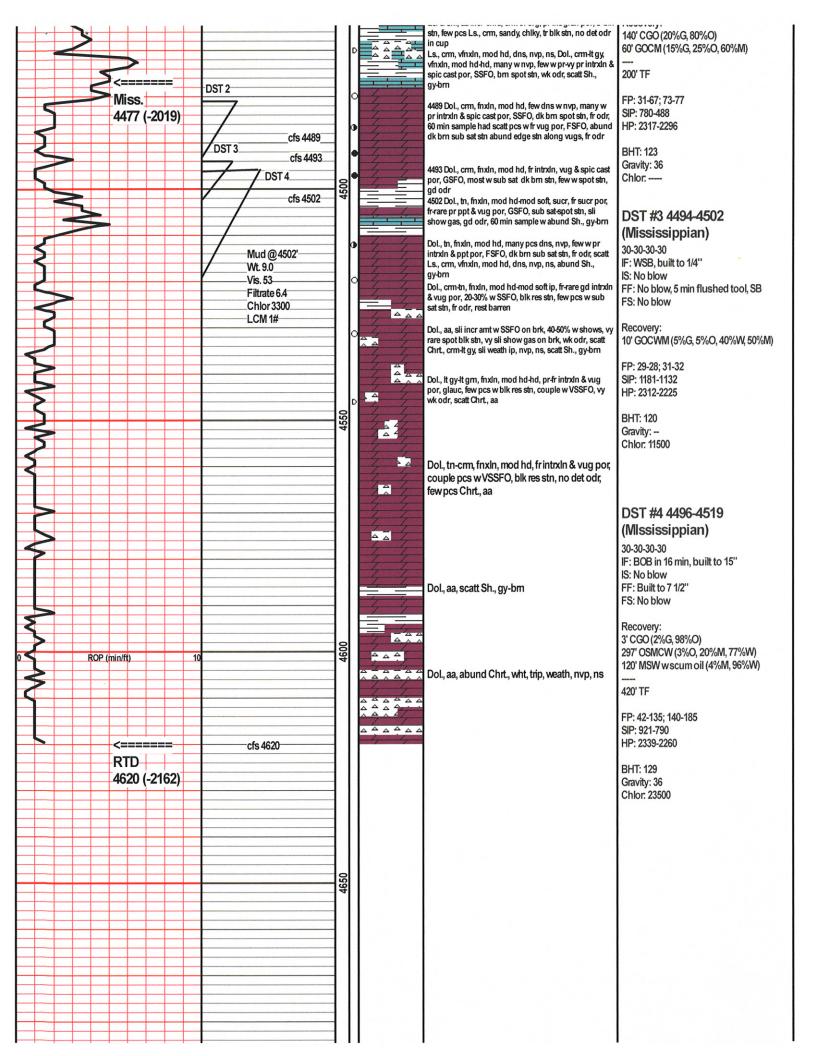












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Prepared For:

Palomino Petroleum

4924 SE 58th St. Newton, KS 67114

ATTN: Andrew Stenzel

Black Gold #1

10-19S-25W Ness, KS

Start Date: 2019.09.11 @ 20:40:00

End Date:

2019.09.12 @ 06:25:00

Job Ticket #: 65552

DST#: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2019.09.17 @ 15:43:29



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65552

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.09.11 @ 20:40:00

GENERAL INFORMATION:

Time Tool Opened: 22:44:40

Time Test Ended: 06:25:00

Formation:

Interval: Total Depth: Ft. Scott

Deviated:

No Whipstock: ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Martine Salinas

Unit No:

Reference Elevations:

2458.00 ft (KB)

2453.00 ft (CF)

4412.00 ft (KB) (TVD) 7.88 inches Hole Condition: Good

4355.00 ft (KB) To 4412.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Serial #: 8734 Press@RunDepth:

Hole Diameter:

Outside

832.75 psig @

4356.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2019.09.11 20:40:01 End Date:

End Time:

2019.09.12 06:25:00 Last Calib.:

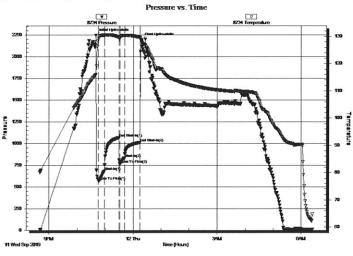
2019.09.12

Time On Btm: Time Off Btm: 2019.09.11 @ 22:39:50

2019.09.12 @ 00:17:10

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 30 secs (blow increased to 671") GTS @ 15 mins 30-ISI-B.O.B (11 inches) ASASI (blow increased to 62 1/2" & decreased to 7")

15-FF-B.O.B (11 inches) ASAO (blow increased to 338") 30-FSI-B.O.B (11 inches) @ 1 mins (blow increased to 251 1/2")



DDECCLIDE CLIMMADV

	PRESSURE SUMMARY						
	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	2245.10	115.97	Initial Hydro-static			
	5	571.57	128.99	Open To Flow (1)			
	19	681.34	130.43	Shut-In(1)			
	49	1065.29	129.74	End Shut-In(1)			
;	51	765.76	129.41	Open To Flow (2)			
Temperatur	62	832.75	130.28	Shut-In(2)			
	95	1010.61	129.59	End Shut-In(2)			
	98	2190.72	128.30	Final Hydro-static			

Recovery

Description	Volume (bbl)		
181.00 GMCO 32%G, 25%M, 43%O			
2804.00 CGO 25%G,75%O 0-40 MINS REVERSE			
15.00 CGO 15%G, 85%O			
1000' GIP	0.00		
	GMCO 32%G, 25%M, 43%O CGO 25%G,75%O 0-40 MINS REVERSE CGO 15%G, 85%O		

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65552

Printed: 2019.09.17 @ 15:43:29



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65552

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.09.11 @ 20:40:00

GENERAL INFORMATION:

Time Tool Opened: 22:44:40

Time Test Ended: 06:25:00

Formation:

Ft. Scott

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Martine Salinas

Tester: Unit No:

82

2458.00 ft (KB)

Reference Elevations:

2453.00 ft (CF)

KB to GR/CF:

5.00 ft

Total Depth: Hole Diameter:

Interval:

4412.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

Serial #: 8959 Press@RunDepth: Inside

psig @

4355.00 ft (KB) To 4412.00 ft (KB) (TVD)

4356.00 ft (KB)

End Date:

2019.09.12

Capacity:

8000.00 psig

Start Date: Start Time:

2019.09.11 20:40:01

End Time:

06:24:49

Last Calib.:

2019.09.12

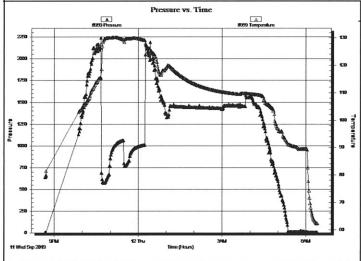
Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 30 secs (blow increased to 671") GTS @ 15 mins

30-ISI-B.O.B (11 inches) ASASI (blow increased to 62 1/2" & decreased to 7")

15-FF-B.O.B (11 inches) ASAO (blow increased to 338") 30-FSI-B.O.B (11 inches) @ 1 mins (blow increased to 251 1/2")



PRESSURE SUMMARY

THEOGOTIE COMMUNICATION						
Time	Pressure	Temp	Annotation			
(Min.)	(psig)	(deg F)				
8						
			7			

Recovery

Length (ft)	Length (ft) Description			
181.00	181.00 GMCO 32%G, 25%M, 43%O			
2804.00	CGO 25%G,75%O 0-40 MINS REVE	RSED39.33		
15.00	CGO 15%G, 85%O	0.21		
0.00	1000' GIP	0.00		

Gas Rates

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



TOOL DIAGRAM

Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65552

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.09.11 @ 20:40:00

Tool Information

Drill Pipe:

Length: 4239.00 ft Diameter:

3.80 inches Volume:

59.46 bbl

Tool Weight:

2500.00 lb

Heavy Wt. Pipe: Length:

0.00 ft Diameter:

2.75 inches Volume:

0.00 bbl

Weight set on Packer: 25000.00 lb

Drill Collar:

Length:

118.00 ft Diameter:

2.25 inches Volume: 0.58 bbl Total Volume: 60.04 bbl

Weight to Pull Loose: 70000.00 lb Tool Chased

Drill Pipe Above KB: Depth to Top Packer:

30.00 ft 4355.00 ft

0.00 ft

Depth to Bottom Packer:

ft

String Weight: Initial 58000.00 lb Final 63000.00 lb

Interval between Packers: Tool Length:

57.00 ft

85.00 ft

6.75 inches

Number of Packers:

2 Diameter:

Tool Comments: ISI- Bled off floor manifold 5 mins FSI- Bled off floor manifold 5 mins

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
5.00			4332.00		
5.00	1113		4337.00		
5.00	01-07		4342.00		
3.00	-001		4345.00		
5.00			4350.00	28.00	Bottom Of Top Packer
5.00			4355.00		
1.00			4356.00		
0.00	8959	Inside	4356.00		
0.00	8734	Outside	4356.00		
18.00			4374.00		
1.00			4375.00		
31.00			4406.00		
1.00			4407.00		
5.00			4412.00	57.00	Bottom Packers & Anchor
	5.00 5.00 5.00 3.00 5.00 1.00 0.00 0.00 18.00 1.00 31.00	5.00 5.00 1113 5.00 01-07 3.00 -001 5.00 1.00 0.00 8959 0.00 8734 18.00 1.00 31.00 1.00	5.00 5.00 1113 5.00 01-07 3.00 -001 5.00 1.00 0.00 8959 Inside 0.00 8734 Outside 18.00 1.00 31.00 1.00	5.00 4332.00 5.00 1113 4337.00 5.00 01-07 4342.00 3.00 -001 4345.00 5.00 4350.00 5.00 4355.00 1.00 4356.00 0.00 8959 Inside 4356.00 0.00 8734 Outside 4356.00 18.00 4374.00 1.00 4375.00 31.00 4406.00 1.00 4407.00	5.00 4332.00 5.00 1113 4337.00 5.00 01-07 4342.00 3.00 -001 4345.00 5.00 4350.00 28.00 5.00 4355.00 1.00 4356.00 0.00 8959 Inside 4356.00 0.00 8734 Outside 4356.00 18.00 4374.00 1.00 4375.00 31.00 4406.00 1.00 4407.00

Total Tool Length:

85.00



FLUID SUMMARY

Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114

Black Gold #1 Job Ticket: 65552

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.09.11 @ 20:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: Viscosity:

9.00 lb/gal 52.00 sec/qt Cushion Length: Cushion Volume: Water Salinity:

ppm

Water Loss:

7.78 in³

Gas Cushion Type:

ft bbl

Resistivity:

Filter Cake:

Salinity:

ohm.m

3000.00 ppm 1.00 inches Gas Cushion Pressure:

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
181.00	GMCO 32%G, 25%M, 43%O	1.464
2804.00	CGO 25%G,75%O 0-40 MINS REVERSED	39.333
15.00	CGO 15%G, 85%O	0.210
0.00	1000' GIP	0.000

Total Length:

3000.00 ft

Total Volume:

41.007 bbl

0

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location: Recovery Comments: Gravity of oil = 40.8 @ 78 degs

Gravity corrected to 39.0 @ 60 degs

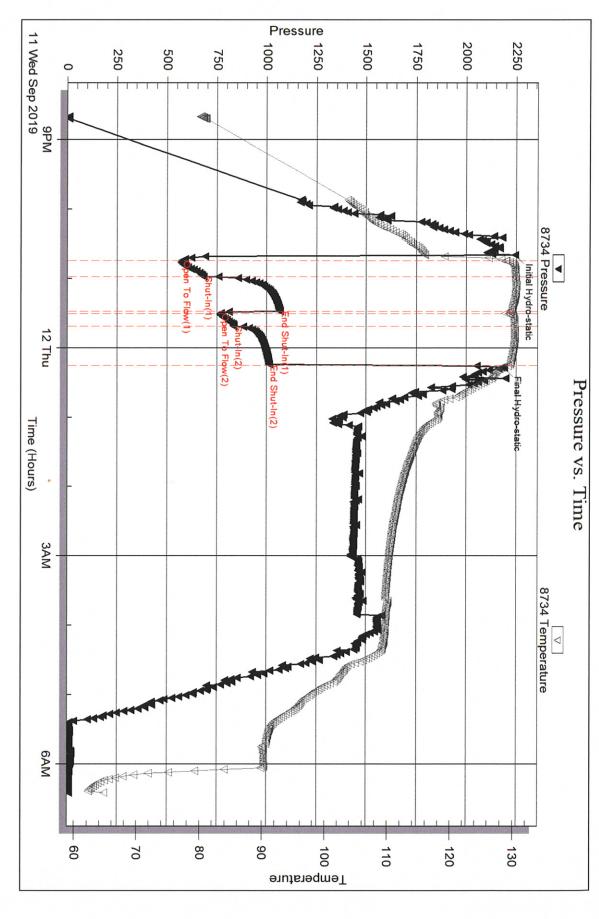
Trilobite Testing, Inc

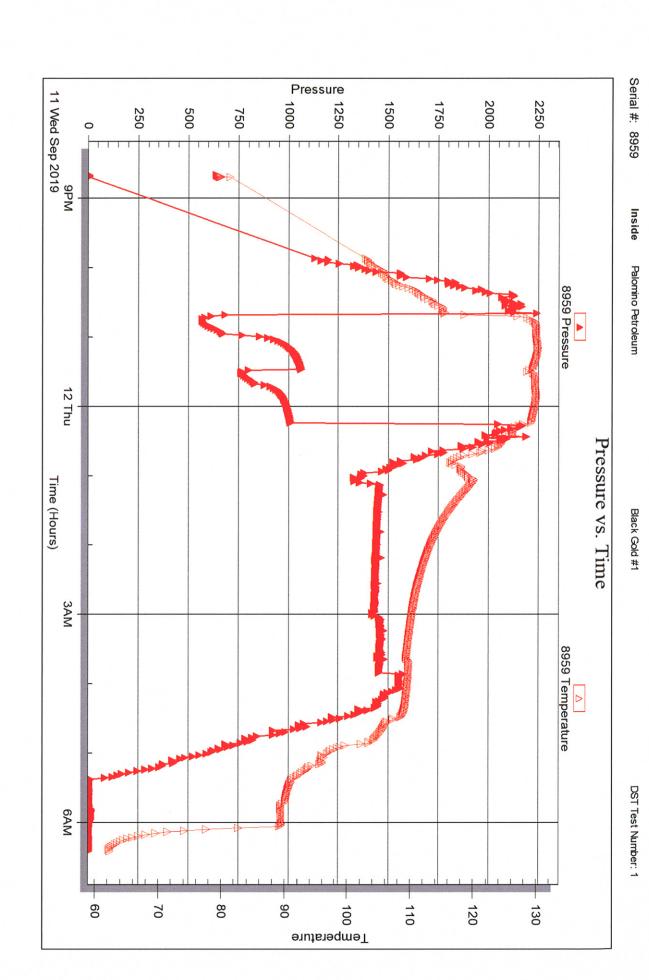
Ref. No: 65552



Printed: 2019.09.17 @ 15:43:30

Serial #: 8734





Trilobite Testing, Inc

Ref. No:

65552



Prepared For:

Palomino Petroleum

4924 SE 58th St. Newton, KS 67114

ATTN: Andrew Stenzel

Black Gold #1

10-19S-25W Ness, KS

Start Date: 2019.09.12 @ 19:45:00

End Date: 2019.09.13 @ 02:26:00

Job Ticket #: 65553 DST #: 2

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65553

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.09.12 @ 19:45:00

GENERAL INFORMATION:

Time Tool Opened: 21:37:20

Time Test Ended: 02:26:00

Formation:

Mississipian

Deviated:

Whipstock: No

Test Type: Conventional Bottom Hole (Reset)

ft (KB)

Tester:

Martine Salinas

Unit No:

82

Reference Elevations:

2458.00 ft (KB)

KB to GR/CF:

2453.00 ft (CF) 5.00 ft

Interval: Total Depth:

Hole Diameter:

4481.00 ft (KB) To 4493.00 ft (KB) (TVD)

4493.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

Serial #: 8734 Press@RunDepth: Outside

76.72 psig @

4482.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2019.09.12

End Date:

2019.09.13

Last Calib .:

2019.09.13

Start Time:

19:45:01

End Time:

02:26:00

Time On Btm:

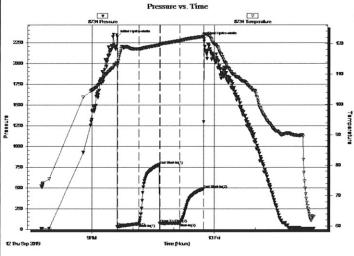
2019.09.12 @ 21:36:40

Time Off Btm:

2019.09.12 @ 23:45:00

TEST COMMENT: 30-IF-1/4" blow dead @ 24 mins

30-ISI-No blow back 30-FF-No blow 30-FSI-No blow back



70	PRESSURE SUMMARY				
1	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	2316.97	113.80	Initial Hydro-static	
	1	30.94	113.35	Open To Flow (1)	
	32	66.65	118.21	Shut-In(1)	
	63	780.18	119.51	End Shut-In(1)	
1	64	72.88	119.74	Open To Flow (2)	
Temperature	93	76.72	120.95	Shut-In(2)	
2	128	488.15	122.27	End Shut-In(2)	
	129	2296.18	123.10	Final Hydro-static	

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 15%G, 25%O, 60%M	0.30
140.00	CGO 20%G, 80%O	1.44
* Recovery from r	multiple tests	-

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

Trilobite Testing, Inc

Ref. No: 65553



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65553

. DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.09.12 @ 19:45:00

GENERAL INFORMATION:

Formation:

Mississipian

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 21:37:20

Time Test Ended: 02:26:00

Tester:

Martine Salinas

Unit No:

82

4481.00 ft (KB) To 4493.00 ft (KB) (TVD)

Interval: Total Depth: Hole Diameter:

4493.00 ft (KB) (TVD)

Reference Elevations:

2458.00 ft (KB)

7.88 inches Hole Condition: Good

KB to GR/CF:

2453.00 ft (CF) 5.00 ft

Serial #: 8959 Press@RunDepth: Inside

psig @

4482.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2019.09.12

End Date:

2019.09.13

Last Calib .:

2019.09.13

Start Time:

19:45:01

Time On Btm:

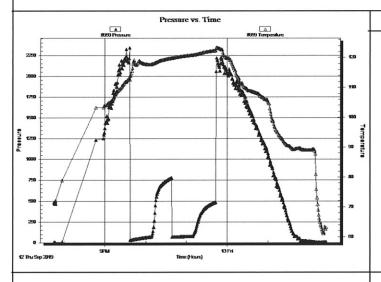
End Time:

02:26:00

Time Off Btm:

TEST COMMENT: 30-IF-1/4" blow dead @ 24 mins

30-ISI-No blow back 30-FF-No blow 30-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	(deg F)	Annotation
			5

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 15%G, 25%O, 60%M	0.30
140.00	CGO 20%G, 80%O	1.44
* Recovery from r	nultiple tests	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc

Ref. No: 65553



TOOL DIAGRAM

Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65553

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.09.12 @ 19:45:00

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 4365.00 ft Diameter:

Length:

0.00 ft Diameter: 118.00 ft Diameter:

3.80 inches Volume: 2.75 inches Volume:

61.23 bbl 0.00 bbl Tool Weight:

2500.00 lb Weight set on Packer: 25000.00 lb

30.00 ft

2.25 inches Volume: 0.58 bbl Total Volume: 61.81 bbl

Tool Chased

Weight to Pull Loose: 66000.00 lb 0.00 ft

Depth to Top Packer: Depth to Bottom Packer:

Drill Pipe Above KB:

4481.00 ft ft

String Weight: Initial 58000.00 lb Final 58000.00 lb

Interval between Packers: 12.00 ft 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			4454.00		
Shut In Tool	5.00			4459.00		
Hydraulic tool	5.00	1113		4464.00		
Jars	5.00	01-07		4469.00		
Safety Joint	3.00	-001		4472.00		
Packer	5.00			4477.00	28.00	Bottom Of Top Packer
Packer	4.00			4481.00		
Stubb	1.00			4482.00		
Recorder	0.00	8959	Inside	4482.00		
Recorder	0.00	8734	Outside	4482.00		
Perforations	6.00			4488.00		
Bullnose	5.00			4493.00	12.00	Bottom Packers & Anchor

Total Tool Length:

40.00

Trilobite Testing, Inc

Ref. No: 65553



FLUID SUMMARY

Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65553

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.09.12 @ 19:45:00

Oil API:

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity: Water Loss:

59.00 sec/qt 6.39 in³

Resistivity: Salinity: Filter Cake:

ohm.m 3000.00 ppm 1.00 inches

Cushion Type:

Cushion Length: Cushion Volume:

ft bbl Water Salinity:

36 deg API ppm

Gas Cushion Type:

Gas Cushion Pressure:

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 15%G, 25%O, 60%M	0.295
140.00	CGO 20%G, 80%O	1.435

Total Length:

200.00 ft

Total Volume:

1.730 bbl

0

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location: Recovery Comments: Gravity of oil = 36.4 @ 64 degs

Gravity corrected to 36 @ 60 degs

Trilobite Testing, Inc

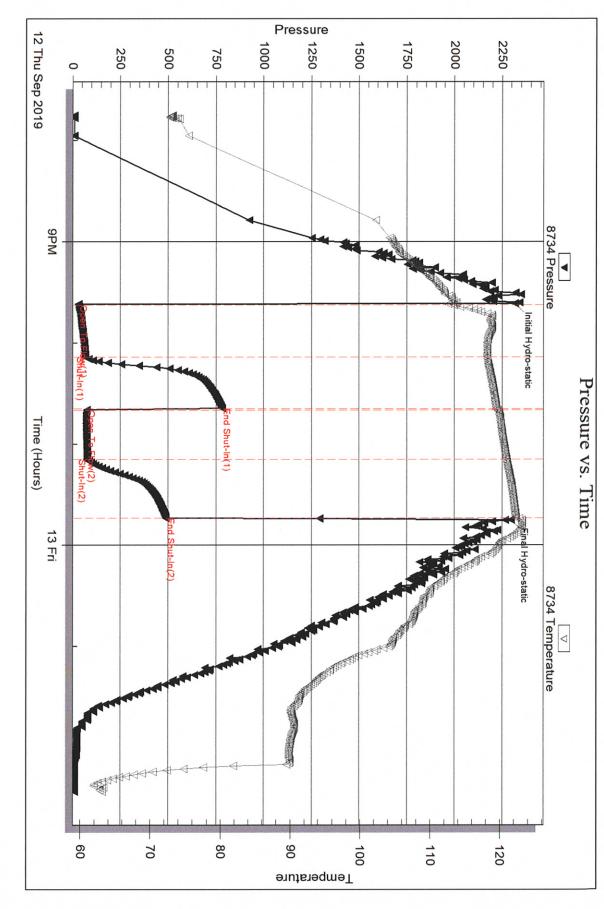
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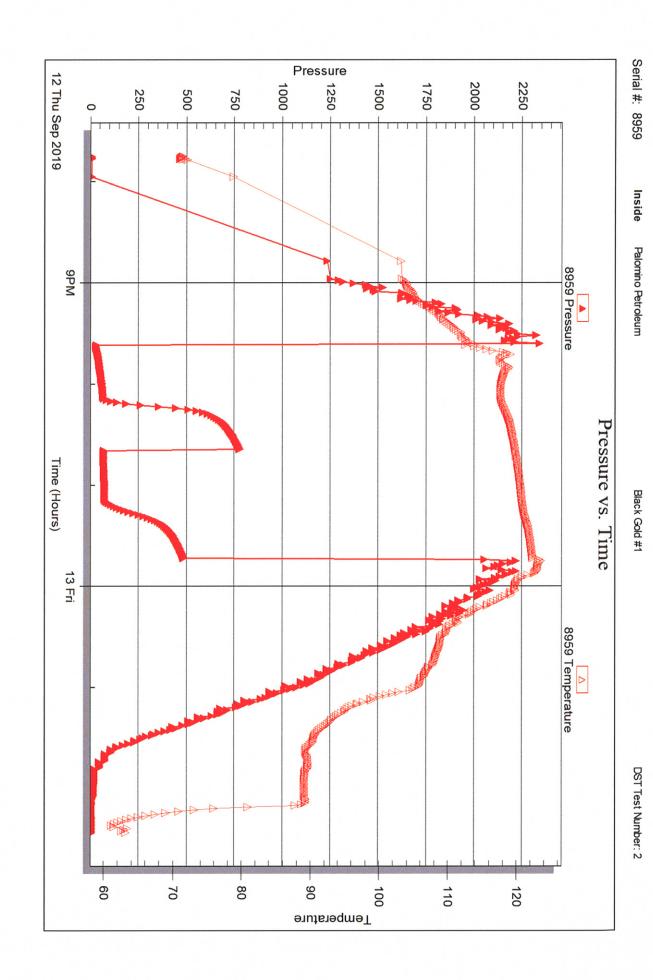


Printed: 2019.09.17 @ 15:36:39

Serial #: 8734







Trilobite Testing, Inc

Ref. No:

65553



Prepared For: Palomino Petroleum

4924 SE 58th St. Newton, KS 67114

ATTN: Andrew Stenzel

Black Gold #1

10-19S-25W Ness, KS

Start Date: 2019.09.13 @ 10:20:00 End Date: 2019.09.13 @ 16:16:30

Job Ticket #: 65554 DST#: 3

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



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65554

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2019.09.13 @ 10:20:00

GENERAL INFORMATION:

Formation:

Lower Mississipian

Deviated:

Whipstock: No

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 12:26:10

Tester: Unit No: Martine Salinas

Interval:

Time Test Ended: 16:16:30

2458.00 ft (KB)

4494.00 ft (KB) To 4502.00 ft (KB) (TVD)

Reference Elevations:

2453.00 ft (CF)

Total Depth:

4502.00 ft (KB) (TVD)

KB to GR/CF:

Hole Diameter:

7.88 inches Hole Condition: Good

5.00 ft

Serial #: 8734

Press@RunDepth:

Outside 31.91 psig @

4495.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2019.09.13

End Date:

2019.09.13

Last Calib .:

2019.09.13

Start Time:

10:20:01

End Time:

16:16:30

Time On Btm:

2019.09.13 @ 12:25:50

Time Off Btm:

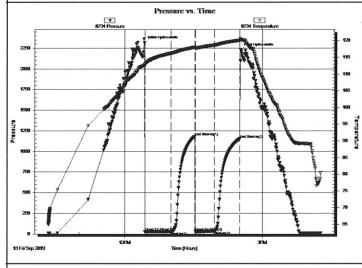
2019.09.13 @ 14:32:00

TEST COMMENT: 30-IF-Weak surface blow built to 1/4"

30-ISI-No blow back

30-FF-No blow @ 5 mins, Flushed tool, maintained surface blow

30-FSI-No blow back



PRESSURE SUMMARY

1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2311.67	113.06	Initial Hydro-static
	1	28.85	112.51	Open To Flow (1)
	34	27.56	116.24	Shut-In(1)
	66	1181.10	118.06	End Shut-In(1)
	67	30.95	117.81	Open To Flow (2)
	92	31.91	118.70	Shut-In(2)
	125	1152.32	120.15	End Shut-In(2)
	127	2224.52	120.31	Final Hydro-static
	3			
1				

Recovery

Length (ft)	Description	Volume (bbl)
10.00	0.00 GOCWM 5%G,5%O,40%W,50%O	
* Recovery from r	nultiple tests	

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 65554



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65554

ATTN: Andrew Stenzel

Test Start: 2019.09.13 @ 10:20:00

GENERAL INFORMATION:

Formation:

Lower Mississipian

Deviated:

Whipstock: No

ft (KB)

Tester:

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 12:26:10

Time Test Ended: 16:16:30

Unit No:

Martine Salinas 82

Interval:

4494.00 ft (KB) To 4502.00 ft (KB) (TVD)

Total Depth:

4502.00 ft (KB) (TVD)

Reference Elevations:

2458.00 ft (KB)

2453.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Good

KB to GR/CF:

5.00 ft

Serial #: 8959 Press@RunDepth: Inside

psig @

4495.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2019.09.13

End Date:

2019.09.13

Last Calib .:

Start Time:

10:20:01

End Time:

Time On Btm:

2019.09.13

16:16:20

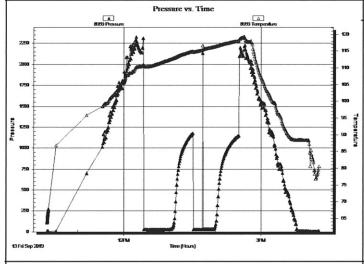
Time Off Btm:

TEST COMMENT: 30-IF-Weak surface blow built to 1/4"

30-ISI-No blow back

30-FF-No blow @ 5 mins, Flushed tool, maintained surface blow

30-FSI-No blow back



PRESSURE SUMMARY

J	process of the second second second	or a record of the contract of			
	Time	Pressure		Annotation	
	(Min.)	(psig)	(deg F)		
				6	
		ĵ			

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GOCWM 5%G,5%O,40%W,50%O	0.05
* Recovery from r	nultiple tests	•

Gas Rates

Choke (inches) Pressure (psig)

		-	

Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 65554



TOOL DIAGRAM

Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1 Job Ticket: 65554

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2019.09.13 @ 10:20:00

Tool Information

Drill Pipe:

Length: 4364.00 ft Diameter:

0.00 ft Diameter:

3.80 inches Volume: 2.75 inches Volume:

61.22 bbl 0.00 bbl

Tool Weight:

2500.00 lb Weight set on Packer: 25000.00 lb

Heavy Wt. Pipe: Length: Drill Collar: Length: 118.00 ft Diameter:

2.25 inches Volume: 0.58 bbl

Weight to Pull Loose: 65000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

16.00 ft 4494.00 ft

61.80 bbl Total Volume:

Tool Chased

0.00 ft

Depth to Bottom Packer:

String Weight: Initial 56000.00 lb

Final 56000.00 lb

Interval between Packers: Tool Length:

8.00 ft

36.00 ft

Diameter:

6.75 inches

Number of Packers:

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4467.00		
Shut In Tool	5.00			4472.00		
Hydraulic tool	5.00	1113		4477.00		
Jars	5.00	01-07		4482.00		
Safety Joint	3.00	-001		4485.00		
Packer	5.00			4490.00	28.00	Bottom Of Top Packer
Packer	4.00			4494.00		
Stubb	1.00			4495.00		
Recorder	0.00	8959	Inside	4495.00		
Recorder	0.00	8734	Outside	4495.00		
Perforations	2.00			4497.00		
Bullnose	5.00			4502.00	8.00	Bottom Packers & Anchor

Total Tool Length:

36.00

Trilobite Testing, Inc

Ref. No: 65554



FLUID SUMMARY

Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65554

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2019.09.13 @ 10:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

Water Salinity:

deg API

Mud Weight:

9.00 lb/gal

Cushion Length:

ft bbl 11500 ppm

Viscosity:

65.00 sec/qt

Cushion Volume:

Water Loss: Resistivity:

6.39 in³ ohm.m Gas Cushion Type: Gas Cushion Pressure:

psig

Salinity: Filter Cake: 3000.00 ppm 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	GOCWM 5%G,5%O,40%W,50%O	0.049

Total Length:

10.00 ft

Total Volume:

0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

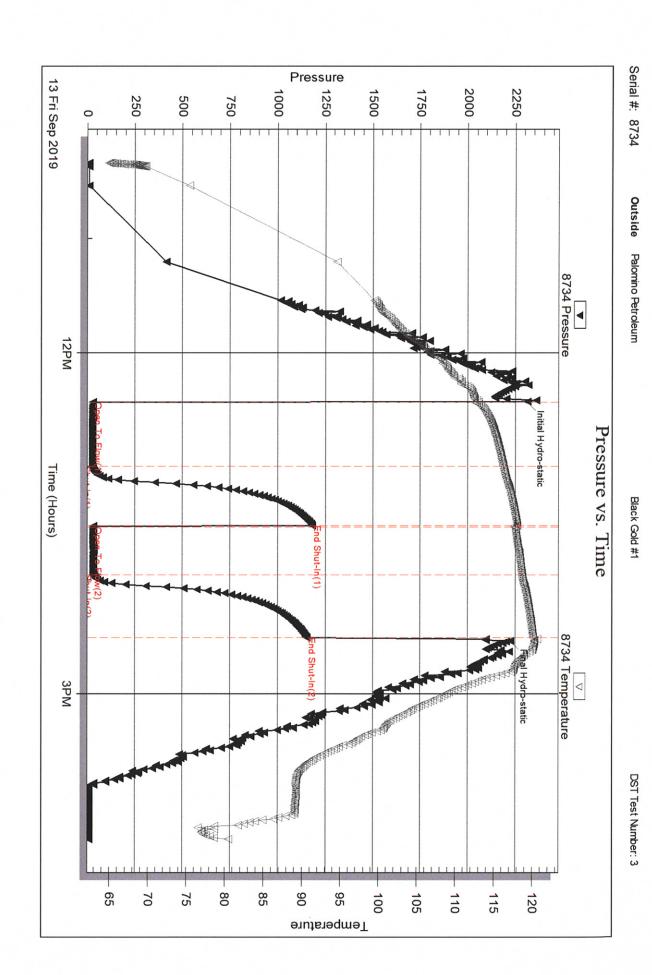
Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .466 @ 86.5 degs = 11,500 PPM

Trilobite Testing, Inc

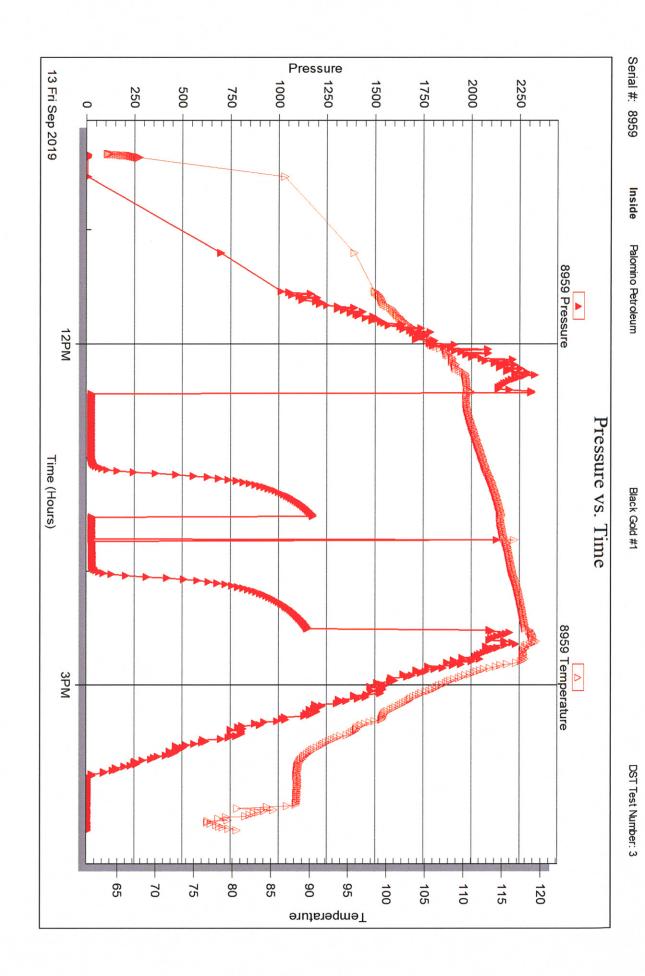
Ref. No: 65554



Trilobite Testing, Inc

Ref. No:

65554



Trilobite Testing, Inc

Ref. No:

65554



Prepared For:

Palomino Petroleum

4924 SE 58th St. Newton, KS 67114

ATTN: Andrew Stenzel

Black Gold #1

10-19S-25W Ness, KS

Start Date:

2019.09.14 @ 06:56:00

End Date:

2019.09.14 @ 13:55:00

Job Ticket #: 65555

DST#: 4

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



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65555

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.09.14 @ 06:56:00

GENERAL INFORMATION:

Formation:

Lower Mississipian

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Straddle (Reset)

Time Tool Opened: 09:02:20 Time Test Ended: 13:55:00

Tester: Unit No: Martine Salinas

4496.00 ft (KB) To 4519.00 ft (KB) (TVD)

Reference Elevations:

2458.00 ft (KB)

Interval: Total Depth:

4620.00 ft (KB) (TVD)

2453.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

82

5.00 ft

Serial #: 8734

Press@RunDepth:

Outside 185.33 psig @

4496.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2019.09.14 06:56:01

End Date:

2019.09.14

Last Calib .:

2019.09.14

End Time:

13:55:00 Time On Btm: 2019.09.14 @ 09:02:10

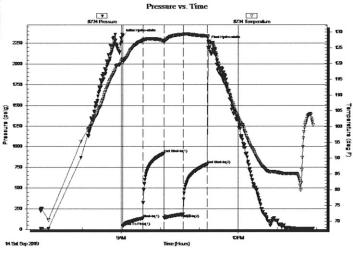
Time Off Btm:

2019.09.14 @ 11:13:20

TEST COMMENT: 30-IF-1/2" blow built to B.O.B(11 inches) @ 16 mins (blow increased to 15"

30-ISI-No blow back

30-FF-S.blow built to 7 1/2" 30-FSI-No blow back



	T TESSSITE SSIVING TO							
	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
5	0	2339.00	121.37	Initial Hydro-static				
9	1	42.40	120.24	Open To Flow (1)				
15	32	135.38	127.36	Shut-In(1)				
0	63	921.38	127.31	End Shut-In(1)				
6 3	64	139.90	127.07	Open To Flow (2)				
100	93	185.33	129.30	Shut-In(2)				
Temperature (deg F)	130	789.76	128.73	End Shut-In(2)				
J	132	2259.56	127.15	Final Hydro-static				
				*				
	1							
,								

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW w / Oil scum 4%M, 96%W	0.61
297.00	VSOMCW 3%O, 20%M, 77%W	4.17
3.00	CGO 2%G, 98%O	0.04
* Recovery from r	nultiple tests	

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

Trilobite Testing, Inc Ref. No: 65555 Printed: 2019.09.17 @ 15:06:43



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65555

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.09.14 @ 06:56:00

GENERAL INFORMATION:

Time Tool Opened: 09:02:20

Time Test Ended: 13:55:00

Formation:

Lower Mississipian

Deviated:

Interval:

No Whipstock:

7.88 inches Hole Condition: Fair

ft (KB)

Test Type: Conventional Straddle (Reset)

Tester:

Martine Salinas

Unit No:

4496.00 ft (KB) To 4519.00 ft (KB) (TVD)

Reference Elevations:

2458.00 ft (KB) 2453.00 ft (CF)

Total Depth: Hole Diameter: 4620.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Serial #: 8959 Press@RunDepth: Inside

psig @

4496.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2019.09.14

End Date:

2019.09.14

Last Calib .:

Time Off Btm:

2019.09.14

Start Time:

06:56:01

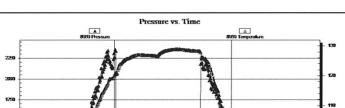
End Time:

13:54:50

Time On Btm:

TEST COMMENT: 30-IF-1/2" blow built to B.O.B(11 inches) @ 16 mins (blow increased to 15"

30-ISI-No blow back 30-FF-S.blow built to 7 1/2" 30-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW w / Oil scum 4%M, 96%W	0.61
297.00	VSOMCW 3%O, 20%M, 77%W	4.17
3.00	CGO 2%G, 98%O	0.04
* Recovery from r	nultiple tests	-

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 65555



Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65555

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.09.14 @ 06:56:00

GENERAL INFORMATION:

Time Tool Opened: 09:02:20

Time Test Ended: 13:55:00

Formation:

Lower Mississipian

Deviated:

Interval:

No Whipstock:

ft (KB)

Test Type: Conventional Straddle (Reset)

Tester:

Martine Salinas

Unit No:

Reference Elevations:

2458.00 ft (KB) 2453.00 ft (CF)

Total Depth:

4496.00 ft (KB) To 4519.00 ft (KB) (TVD) 4620.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 8520

Below (Straddle)

Press@RunDepth:

psig @

4519.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2019.09.14

End Date:

2019.09.14

Last Calib .: Time On Btm: 2019.09.14

Start Time:

06:56:01

End Time:

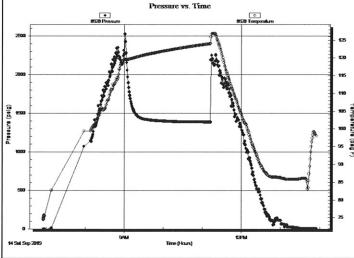
13:54:50

Time Off Btm:

TEST COMMENT: 30-IF-1/2" blow built to B.O.B(11 inches) @ 16 mins (blow increased to 15"

30-ISI-No blow back

30-FF-S.blow built to 7 1/2" 30-FSI-No blow back



	PRESSURE SUMMARY							
Temperature (deg F)	Time (Min.)	Pressure (psig)		RESUMMARY Annotation				

DDECOLIDE OLIMANA DV

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW w / Oil scum 4%M, 96%W	0.61
297.00	VSOMCW 3%O, 20%M, 77%W	4.17
3.00	CGO 2%G, 98%O	0.04
* Recovery from r	multiple tests	

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 65555



Length:

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65555

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.09.14 @ 06:56:00

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 4363.00 ft Diameter: 0.00 ft Diameter:

118.00 ft Diameter:

3.80 inches Volume: 2.75 inches Volume: 2.25 inches Volume:

61.20 bbl 0.00 bbl 0.58 bbl Tool Weight: Weight set on Packer: 25000.00 lb

Weight to Pull Loose: 65000.00 lb

2500.00 lb

0.00 ft

Drill Pipe Above KB: Depth to Top Packer:

13.00 ft 4496.00 ft 4620.00 ft Total Volume: 61.78 bbl Tool Chased

String Weight: Initial 58000.00 lb Final 60000.00 lb

Depth to Bottom Packer: Interval between Packers: 124.00 ft Tool Length:

152.00 ft

3 Diameter:

6.75 inches

Number of Packers: Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4473.00		
Hydraulic tool	5.00	1113		4478.00		
Jars	5.00	01-07		4483.00		
Safety Joint	3.00	-001		4486.00		
Packer	5.00		9	4491.00	28.00	Bottom Of Top Packer
Packer	5.00			4496.00		
Recorder	0.00	8959	Inside	4496.00		
Recorder	0.00	8734	Outside	4496.00		
Perforations	17.00			4513.00		
Blank Off Sub	1.00			4514.00		
Packer - Shale	5.00			4519.00		
Recorder	0.00	8520	Below	4519.00		
Perforations	30.00			4549.00		
Change Over Sub	1.00			4550.00		
Drill Pipe	64.00			4614.00		
Change Over Sub	1.00			4615.00		
Bullnose	5.00			4620.00	124.00	Bottom Packers & Anchor

Total Tool Length: 152.00

Printed: 2019.09.17 @ 15:06:44 Trilobite Testing, Inc Ref. No: 65555



FLUID SUMMARY

Palomino Petroleum

10-19S-25W Ness, KS

4924 SE 58th St. New ton, KS 67114 Black Gold #1

Job Ticket: 65555

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.09.14 @ 06:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34.8 deg API

Mud Weight:

9.00 lb/gal

Cushion Length: Cushion Volume: ft bbl Water Salinity: 10000 ppm

Viscosity: Water Loss: 52.00 sec/qt 7.77 in³

Gas Cushion Type:

Resistivity:

ohm.m

Gas Cushion Pressure:

psig

Salinity: Filter Cake: 3000.00 ppm 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCW w / Oil scum 4%M, 96%W	0.608
297.00	VSOMCW 3%O, 20%M, 77%W	4.166
3.00	CGO 2%G, 98%O	0.042

Total Length:

420.00 ft

Total Volume:

4.816 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 38 @ 92 degs corrected to 34.8 @ 60 degs

RW= .455 @ 95 degs = 10,000 PPM

Trilobite Testing, Inc

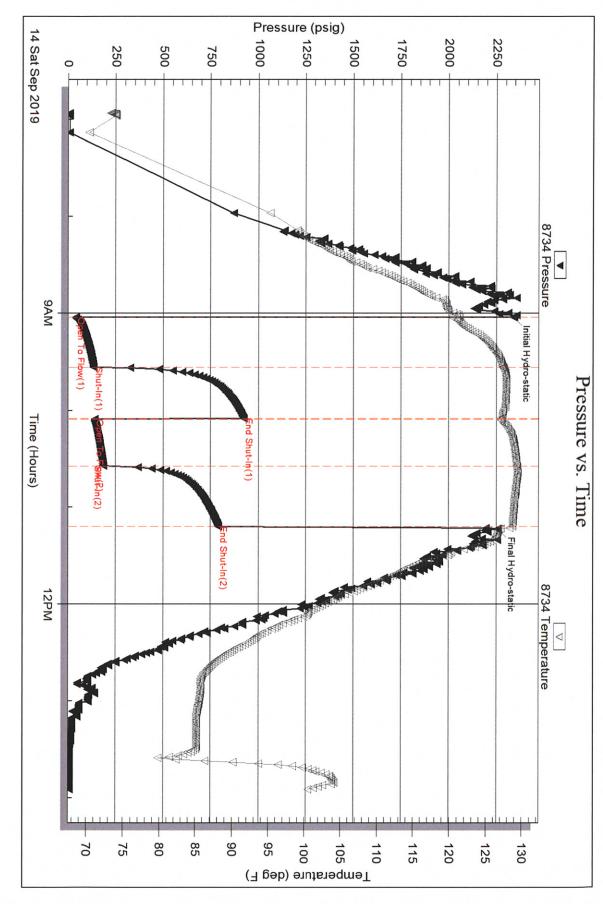
Ref. No: 65555

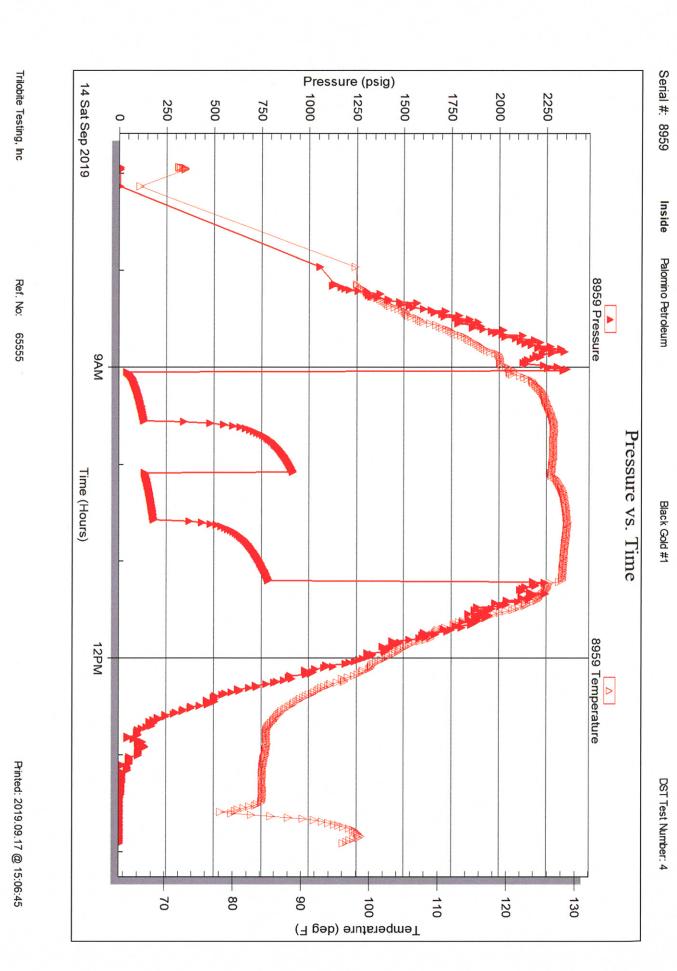


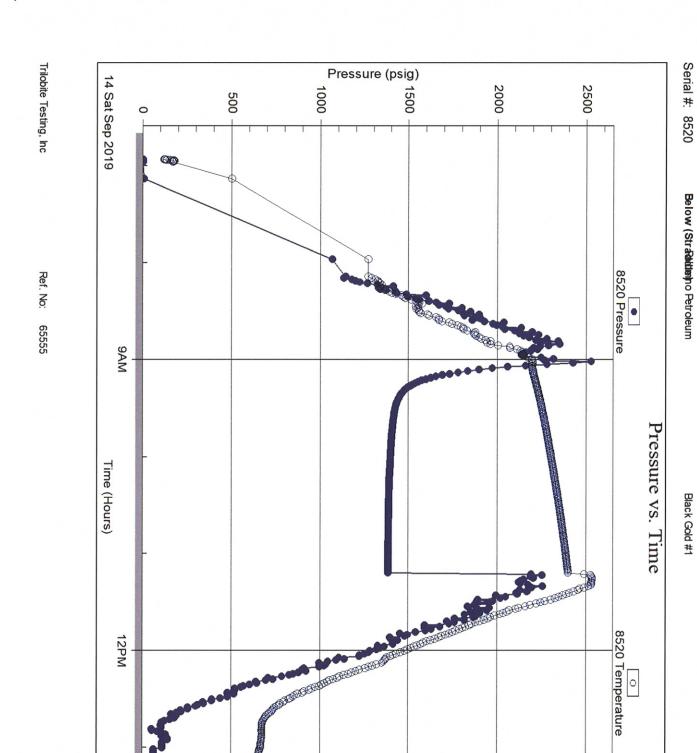
Printed: 2019.09.17 @ 15:06:45

Serial #: 8734

Black Gold #1







(7 geb) enutereqmeT

DST Test Number: 4

Printed: 2019.09.17 @ 15:06:45

Test Ticket

65552 NO.

RILOBITE

ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Well Name & No. Black Gold #1	Test No.	Date 9-11-19	
Company Palomine Petroleum.		KB 2453	GL
Address 4924 SF 84# St. No			
	Rig (N)W #2		
Location: Sec. 10 Twp 193.		State KS	
Interval Tested <u>4355-4412</u>	Zone Tested Ft - Scott		
Anchor Length 57	Drill Pipe Run 4239	Mud Wt. 9, /	
Top Packer Depth 43.50	Drill Collars Run 118	Vis 52	
Bottom Packer Depth 4355	Wt. Pipe Run	WL 7.8	
Total Depth 4412	Chlorides 3(W) ppm Sys		
A CONTRACTOR OF THE PROPERTY O	us)@ 30 secs' (blow increased to		uns
	5) ASASI (blow incressed to 621/2)		
	ASAO (blow increased to 338")		
	@ I mins (blow increased to 251'	<u>た")</u>	
Rec 181 Feet of GMco			5 %mud
Rec 2804 Feet of CGo (Re	versed) 0-40 mins 25 %gas 75	%oil %water	%mud
Rec15 Feet of CC70	15 %gas 85		%mud
Rec O Feet of 1000'GI	P %gas	%oil %water	%mud
Rec Feet of	%gas	%oil %water	%mud
Rec Total Scoo BHT 128	Gravity 39.0 API RW	F Chlorides	ppm
(A) Initial Hydrostatic 2245	Test 1300	T-On Location 17:45	
(B) First Initial Flow 572	Jars250	T-Started 20:40	
(C) First Final Flow 681	Safety Joint 75	T-Open 22:40	
(D) Initial Shut-In	Circ Sub Dray Rar 50	T-Pulled OXX 10	
(E) Second Initial Flow 766	☐ Hourly Standby	T-Out (26: 25	
(F) Second Final Flow 833	Mileage 101 RT 101	Comments ISI blcd of	
(G) Final Shut-In [O 1]	□ Sampler	Memfold 5 mins FSI	
(H) Final Hydrostatic 2191	C Straddle	Clear Manifeld 5 mins	and the second second second
	☐ Shale Packer	☐ Ruined Shale Packer	100
Initial Open 15	Extra Packer	☐ Ruined Packer	
Initial Shut-In 30	Extra Recorder	☐ Extra Copies	-
Final Flow 15	Day Standby	Sub Total 0	
Final Shut-In 30	Accessibility	Total 1776	
1 1	Sub Total 1776	MP/DST Disc't	
Approved By And Range	Our Representative / Court	1-11:	



Final Shut-In 30

Test Ticket

NO. 65553

1726

MP/DST Disc't

Total

1515 Commerce	Parkway • Hays, Kansas 67601	NO. 65555
Well Name & No. Black Gold #1	Test No. 2	Date 9-12-19
company Palomino Petralcum		
Address 4984 SE 84th St.		
Co. Rep/Geo. Andrew Stenzal		
Location: Sec. 10 Twp 19.5		State KS.
Interval Tested <u>4481-4493</u>	Zone Tested Mississipian	
Anchor Length 121	Drill Pipe Run 4365	Mud Wt. 8. 9
Top Packer Depth 4476	Drill Collars Run 1/8	Vis <u>.59</u>
Bottom Packer Depth 4481	Wt. Pipe Run	WL <u>6.4</u>
Total Depth <u>4493</u>	Chlorides 3000 ppm Sys	tem LCM 2#
Blow Description IK · 1/4" blow de	red @ ay mins	
ISI. No blowbac		
FF · No blow		
FSI No blowback		
Rec 60 Feet of GOCM	15 %gas 25.	%oil %water 60 %mud
Rec_140 Feet of CGO	20 %gas 80	%oil %water %mud
RecFeet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Total 200 BHT 10	R3 Gravity 36 API RW @	F Chloridesppm
(A) Initial Hydrostatic 2317	X Test	T-On Location 19:15
(B) First Initial Flow 31	D Jars	T-Started 19:45
(C) First Final Flow 67	Safety Joint 75	T-Open_21:37
(D) Initial Shut-In 78	O Circ Sub	T-Pulled <u>23:37</u>
(E) Second Initial Flow	Hourly Standby	T-Out 02:26
(F) Second Final Flow	Mileage 101 RT 101	Comments
(G) Final Shut-In 488	, ,	
(H) Final Hydrostatic 2296	🔾 Straddle	☐ EM Tool
	☐ Shale Packer	☐ Ruined Shale Packer
Initial Open 30	C Extra Packer	Ruined Packer
Initial Shut-In 30	Extra Recorder	☐ Extra Copies
Final Flow 30	Day Standby	Sub Total 0

Approved By _______Our Representative K fasta: Salues

Intobite 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.

1726

Accessibility

Sub Total



Test Ticket

NO. 6

65554

410 17-16						
Well Name & No. Black Crole	Y H I		Test No3_		Date <u>9-/3-/9</u>	
Company Palamino Petrole	1 1					GL
Address 4924 SF 84th S	- 1	1 KS 67114				
Co. Rep/Geo. Andrew Sten		,	Rig NN#6	ζ		
Location: Sec. 10 Twp	3				State KS.	
Interval Tested 4494 - 4502	The state of the s	Zone Tested(our Mississ	ipian		
Anchor Length 81			4364	•	Mud Wt. 8.9	
Top Packer Depth 4489		Drill Collars Rui	n <u>118</u>		VIs 65	
Bottom Packer Depth_4494		Wt. Pipe Run_	_		WL 6.4	
Total Depth 4502		Chlorides 300	ррп	System	LCM ZH	
Blow Description JE · Weak Su	rfice blow	built to 14"				
ISI · No blowb	1					
FF No blow P		flushed tool Mint	ained Surface b	low		
FSI - No blowba	1					
Rec_ID Feet of GOO	1		5 %gas	5 %oil	40 %water 50	%mu
Rec Feet of	Table 10 to		%gas	%oil	%water	%mu
Rec Feet of	No.		%gas	%oil	%water	%mu
Rec Feet of			%gas	%oil	%water	%mu
Rec Feet of			%gas	%oil	%water	%mu
Rec Total 10 B	HT 120	Gravity	API RW 4466 @	86.5°F	Chlorides 11,500	ррг
(A) Initial Hydrostatic 2312		_ K Test1300	ŧ		ocation (0:15	,
(B) First Initial Flow 29		_ Mars 250)	T-Start	ed _/U:20	
(C) First Final Flow28	1	Safety Joint	75	T-Oper	12:26	
(D) Initial Shut-In	1181	Circ Sub			d 14:26	
(E) Second Initial Flow	a period control of the control of t	☐ Hourly Standby		T-Out	14:17	
(F) Second Final Flow 32		Mileage 101R	T 101	Comm	ents	-
(G) Final Shut-In	1152					
(H) Final Hydrostatic 2225	All property states and the state of the sta			-	/I Tool	
	A Compression of Comp				ined Shale Packer	
Initial Open 30	And the second				ined Packer	11
Initial Shut-In 36					tra Copies	
					ital	
Final Flow 35		□ Day Standby		Sub 10	ICAI	
Final Flow <u>35</u> Final Shut-In <u>30</u>					1506	
				Total	1506	



Test Ticket

NO. 65555

1515 Commerce Parkway - Hays, Kansas 67601

Well Name & No. Black Gold #1	Test No Date
Company Palamino Petroleum	Elevation 3458 KB 2453 GL
Address 4924 SE 845 St.	
Co. Rep/Geo. Andrew Stanzal	Rig Niv #る
Location: Sec. 10 Twp 19	8. Rge. <u>25W</u> . Co. <u>Ne 55</u> State <u>KS</u>
Interval Tested <u>4496 - 4519</u>	Zone Tested Mississippian (lawer)
Anchor Length 23' 101'T	
Top Packer Depth 4491 - 4496	
Bottom Packer Depth 45/9 (Shale	
Total Depth 4620	Chlorides 3300 ppm System LCM 2#
	t to B.O.R(11 inches)@16 mins (blow increased to 15")
ISI · No blamback	
FF . S. blow built	071/2"
FSI · No blowback	
Rec 120 Feet of MSW	oil Scum %gas %oil 96 %water 4 %m
Rec 297 Feet of OJMCh	%gas 3 %oil 77 %water 20 %m
Rec_ 3 Feet of CGO	2 %gas 98 %oil %water %m
Rec Feet of	%gas %oil %water %m
Rec Feet of	%gas %oil %water %m
Rec Total 420 BHT	i.
(A) Initial Hydrostatic 2339	Test T-On Location
(B) First Initial Flow 42	
(C) First Final Flow	Safety Joint 75 T-Open 09:03
(D) Initial Shut-In92	
(E) Second Initial Flow/40	Hourly Standby T-Out 13: 55
(F) Second Final Flow	Mileage IDIRT 101 Comments Tools loaded@(510)
i i	96 Sampler_
(H) Final Hydrostatic 2260	Straddle 600 D EM Tool
	Shale Packer 250 Ruined Shale Packer
Initial Open 30	,
Initial Shut-In 30	Extra Recorder
Final Flow 30	
	2576
Final Shut-In 30	0.586