KOLAR Document ID: 1461850

Confident	tiality 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 Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
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 □ Gas □ DH □ EOR	Elevation: Ground: Kelly Bushing:
\Box Gas \Box DH \Box EON	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Permit #:

AFFIDAVIT

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

Submitted Electronically

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

KOLAR Document ID: 1461850

Operator Nar	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sh	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		-	·	nit ACO-4)	юр	Bollom
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	COBERLY-HEARN 1
Doc ID	1461850

All Electric Logs Run

Sonic
Compensated Density/Neutron PE
Micro
Dual Induction

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	COBERLY-HEARN 1
Doc ID	1461850

Tops

Name	Тор	Datum
Anhy.	1948	(+ 573)
Base Anhy.	1987	(+ 534)
Heebner	3672	(-1151)
Toronto	3695	(-1174)
Lansing	3710	(-1189)
ВКС	4010	(-1489)
Pawnee	4110	(-1589)
Ft. Scott	4210	(-1689)
Cherokee Sh.	4236	(-1715)
Miss.	4315	(-1794)
LTD	4450	(-1929)

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	COBERLY-HEARN 1
Doc ID	1461850

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	223	Common	2% gel, 3% c.c.

GLOBAL OIL FIELD SERVI S, LLC

RECEIVED MAR 15 2019

Invoice

Date	Invoice #
3/13/2019	0013360

24 S. Lincoln RUSSELL, KS 67665

1.6

a.

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

		P.O. No.	Terms		Project
		COBERLY-HEM#1	Due on rece	eipt	
Quantity	Description			Rate	Amount
9 BEN 63.75 FLO- 264 HAN BULI 1 TRI-F 35 HEA 35 LMV 15% I	Y	DICE		13.75 30.00 2.00 1.90 750.00 850.00 6.50 2.75 8.50%	3,506.2 270.0 127.5 501.6 750.0 850.0 227.5 96.2 0.0
ank you for your busin Phone #]		Tot	tal	\$6,329.10

GLOBAL OIL FIELD SERVICES, LLC0013366

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	SEC	TWP	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
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SALES TAX (If Any)

TOTAL CHARGES_

DISCOUNT_

S. Annak

IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln RUSSELL, KS 67665 MAR 05 2019

RECEIVED

Invoice

Date	Invoice #
3/4/2019	0013392

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

		P.O. No.	Terms		Project
		COBERY-HEARN#1	 Due on receipt 		
Quantity	Description		Rate		Amount
6 3 169 1 35 35	COMMON CEMENT CALCIUM-CHLORIDE BENTONITE GEL HANDLING BULK MILEAGE TRI-PLEX PUMP CHARGE FOR SURFACE HEAVY EQUIPMENT. ONE WAY LMV- ONE WAY 15% DISCOUNT IF PAID WITHIN 15 DAYS OF GOVE CO SALES TAX	FINVOICE		16.50 80.00 30.00 1.90 760.00 850.00 6.50 2.75 8.50%	2,640.00 480.00 90.00 321.10 760.00 850.00 227.50 96.25 0.00 0.00
hank you for your			Total		\$5,464.85
	one# Fax#				40,101.00

GLOBAL OIL FIELD SERVICES, LLC0013392

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SALES TAX (If Any)_ TOTAL CHARGES __

DISCOUNT_

SI	G	JA	TT	IR

PRINTED NAME

IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For:

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15

or: Palomino Petroleum, Inc

4924 SE 84th St Newton, KS 67114

ATTN: Jerry Smith

Coberly-Hearn #1

31-14s-27w Gove,KS

 Start Date:
 2019.03.05 @ 22:03:00

 End Date:
 2019.03.06 @ 08:20:45

 Job Ticket #:
 65195
 DST #:
 1

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

Printed: 2019.03.11 @ 11:10:35

RILOBITE	Palomino Petroleum, Inc		31	-14s-27v	v Gove,ł	< <u>s</u>	
ESTING, INC	4924 SE 84th St				-		
	4924 SE 84th St New ton, KS 67114			berly-H Ticket: 6		DST	'#• 1
	ATTN: Jerry Smith				019.03.05		
GENERAL INFORMATION:							
Formation: LKC H - I Deviated: No Whipstock: Time Tool Opened: 03:19:30 Time Test Ended: 08:20:45	ft (KB)		Tes	ster:	Convention Bradley W 78		Hole (Initial)
nterval: 3869.00 ft (KB) To 393 Total Depth: 3930.00 ft (KB) (TV fole Diameter: 7.88 inches Hole	D)		Ref	ference El	evations: to GR/CF:	2511.	00 ft(KB) 00 ft(CF) 00 ft
Serial #: 8522 Inside							
Serial #. 6522 Inside Press@RunDepth: 92.97 psig @ Start Date: 2019.03.05 Start Time: 22:08:05	 3870.00 ft (KB) End Date: End Time: 	2019.03.06 08:25:45	Capacity Last Cal Time On Time Off	ib.: Btm:	2019.03.06 2019.03.06	2019.03. 5 @ 03:23:	45
EST COMMENT: IF: 5" blow . ISI: No return. FF: 3 1/2" blow . FSI: No return.							
ISI: No return. FF: 3 1/2" blow . FSI: No return. Pressure vs. Tin			PI	RESSUF		MARY	
ISI: No return. FF: 3 1/2" blow . FSI: No return. Pressure vs. Tin	Tac Torrestars Torrestars	Time (Min)	Pressure	Temp	RE SUMN		
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Trilobite Testing, Inc

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	Palomino Petroleum	ı, Inc		31	-14s-27\	w Gove,I	KS	
ESTING ,	ion of or other or			Co	berly-F	learn #1		
	New ton, KS 67114			Job	Ticket: 6	5195	DS	T#: 1
	ATTN: Jerry Smith	1		Tes	st Start: 2	019.03.05	@ 22:03:	00
GENERAL INFORMATION:								
Formation: LKC H - I Deviated: No Whipsto Time Tool Opened: 03:19:30 Time Test Ended: 08:20:45	ock: ft (KB)			Tes	st Type: ster: t No:	Conventio Bradley W 78		n Hole (Initial)
Total Depth: 3930.00 ft (KE	3930.00 ft (KB) (TVD) 3) (TVD) s Hole Condition: Good			Ref		evations: to GR/CF:	2511	1.00 ft (KB) 1.00 ft (CF) 0.00 ft
			·		·			
		2019	9.03.06 8:25:45	Capacity Last Cali Time On Time Off	b.: Btm:		8000 2019.03	0.00 psig 3.06
FF: 3 1/2" bl FSI: No retu								
	e vs. Time			PI	RESSU		MARY	
2002 A 2010 A 20	e vs. Time san Terperare	-	Time Min.)	Pr Pressure (psig)	RESSUI Temp (deg F)	RE SUMN		
		-		Pressure	Temp			
	SD Corporan	50 (110) 100 100 100 100 100 100 10		Pressure	Temp (deg F)			
500 570 570 570 570 570 570 570	Plans)	50 (190 50 50 50 50 50 50 50 50 50 5		Pressure	Temp (deg F)	Annotat s Rates		Gas Rate (Mct/d)

Trilobite Testing, Inc

(ON-	RILO	RITE	DRII	L STE	MTEST	FREPOR	Т	TOOL DIAGRA
範				o Petroleum,	Inc		31-14s-27w Gov	e,KS
	I EST	T ING , INC		84th St			Coberly-Hearn #	¥1
			New ton	, KS 67114			Job Ticket: 65195	DST#: 1
			ATTN:	Jerry Smith			Test Start: 2019.03,	05 @ 22:03:00
Tool Informatio	on							
Drill Pipe:	Length:	3400.00 ft	Diameter:	3.80 in	ches Volume:	47.69 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	•	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bbl	Weight set on Pa	
Drill Collar:	Length:	470.00 ft	Diameter:	2.25 in	ches Volume:	2.31 bbl	Weight to Pull Loc	ose: 85000.00 lb
Drill Pipe Above I	KB.	28.00 ft			Total Volume:	50.00 bbl	Tool Chased	0.00 ft
Depth to Top Pac		3869.00 ft					String Weight: Ini	tial 72000.00 lb
Depth to Bottom		ft					Fir	nal 72000.00 lb
Interval between	Packers:	61.00 ft						
Tool Length:		88.00 ft						
Number of Packe	re	2	Diameter	6.75 in	shaa			
Number of Packe	13.	2	Diameter:	0.75 10	unes			
Tool Comments:	13 .	2	Daneter:	0.75				
Tool Comments: Tool Descriptic	on	_	ngth (ft)		Position	Depth (ft) Ac	ccum. Lengths	
Tool Comments: Tool Descriptic Change Over Sub	on	_				Depth (ft) Ac 3843.00	cum. Lengths	
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool	on	_	ngth (ft)				cum. Lengths	
Tool Comments: Tool Descriptic Change Over Sut Shut In Too! Hydraulic tool	on	_	ngth (ft) 1.00		Position	3843.00	cum. Lengths	
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars	on	_	ngth (ft) 3 1.00 5.00		Position	3843.00 3848.00	cum. Lengths	
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars	on	_	ngth (ft) 1 1.00 5.00 5.00		Position	3843.00 3848.00 3853.00	cum. Lengths	
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer	on	_	ngth (ft) 3 1.00 5.00 5.00 5.00		Position	3843.00 3848.00 3853.00 3858.00	cum. Lengths	Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on	_	1.00 5.00 5.00 5.00 2.00		Position Fluid	3843.00 3848.00 3853.00 3858.00 3860.00		Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb	on	_	ngth (ft) 5 1.00 5.00 5.00 5.00 2.00 5.00		Position Fluid	3843.00 3848.00 3853.00 3858.00 3860.00 3865.00		Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Too! Hydraulic tool Jars Safety Joint Packer Packer Stubb	on	_	ngth (ft) 3 1.00 5.00 5.00 5.00 2.00 5.00 4.00	Serial No.	Position Fluid	3843.00 3848.00 3853.00 3858.00 3860.00 3865.00 3869.00		Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Hars Safety Joint Packer Packer Stubb Recorder Recorder	on	_	ngth (ft) 1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00	Serial No.	Position Fluid	3843.00 3848.00 3853.00 3858.00 3860.00 3865.00 3869.00 3869.00 3870.00		Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Hars Safety Joint Packer Packer Stubb Recorder Recorder	on	Ler	ngth (ft) 5 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	Serial No.	Position Fluid Inside	3843.00 3848.00 3853.00 3858.00 3860.00 3865.00 3869.00 3870.00 3870.00		Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Perforations	on b	Ler	ngth (ft) 1.00 5.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	Serial No.	Position Fluid Inside	3843.00 3848.00 3853.00 3858.00 3860.00 3865.00 3869.00 3870.00 3870.00 3870.00		Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool lars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub	on b	Ler	ngth (ft) 3 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 24.00	Serial No.	Position Fluid Inside	3843.00 3848.00 3853.00 3858.00 3860.00 3869.00 3869.00 3870.00 3870.00 3870.00 3870.00		Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer	on b	Ler	ngth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 24.00 1.00	Serial No.	Position Fluid Inside	3843.00 3848.00 3853.00 3858.00 3860.00 3865.00 3865.00 3870.00 3870.00 3870.00 3870.00 3894.00 3895.00		Bottom Of Top Packer

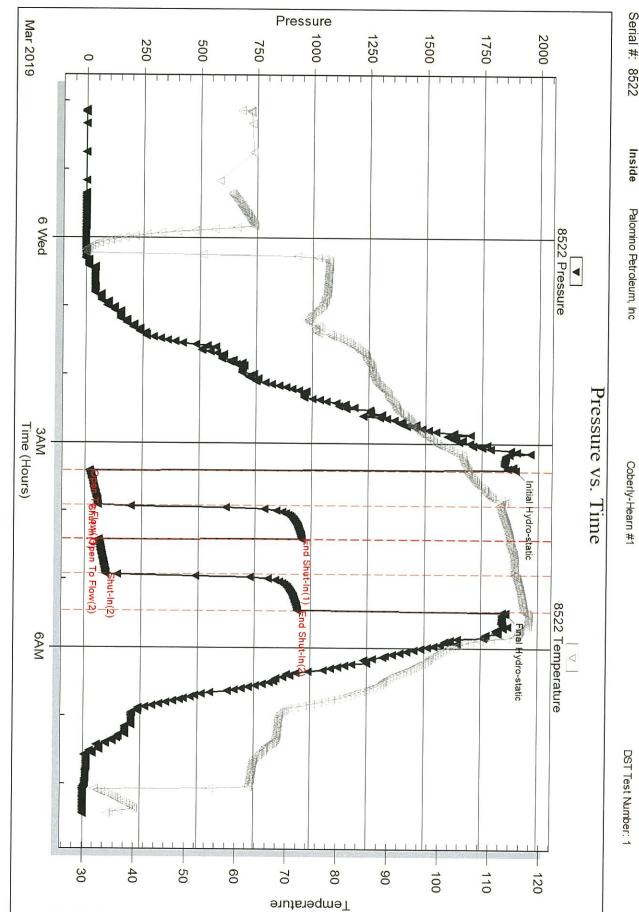
RILO		DRI	LL STEM T	EST R	EPORT	Г		FLUID SUMMAR
		Palomir	no Petroleum, Inc			31-14s-27	w Gove,KS	
I ES	TING , INC.		E 84th St n, KS 67114			Coberly-H		DST#:1
		ATTN:	Jerry Smith			Test Start: 2	2019.03.05 @ 22	2:03:00
Mud and Cushion In	formation							
Viscosity: 55.00 Water Loss: 7.19 Resistivity: Salinity: 4000.00	ohm.m		Cushion Typ Cushion Len Cushion Volu Gas Cushion Gas Cushion	gth: ume: 1 Type:		ft bbl psig	Oil API: Water Salinity:	0 deg API 33000 ppm
Recovery Informatio	»n							
			Recovery 1				٦	
	Length ft	ו	Descriptio	on		Volume bbl		
	1	50.00	WCM 35%W 65%M			0.738	3	
Ţı	otal Length:	150.	00 ft Total Volu	lme;	0.738 bbl			
La	lum Fluid Sample aboratory Name lecovery Comme	e:	Num Gas Laborator is .321 @ 46f = 3300	y Location:	0	Serial #		
La	aboratory Name	e:	Laborator	y Location:		Serial #		

Printed: 2019.03.11 @ 11:10:36

Ref. No: 65195



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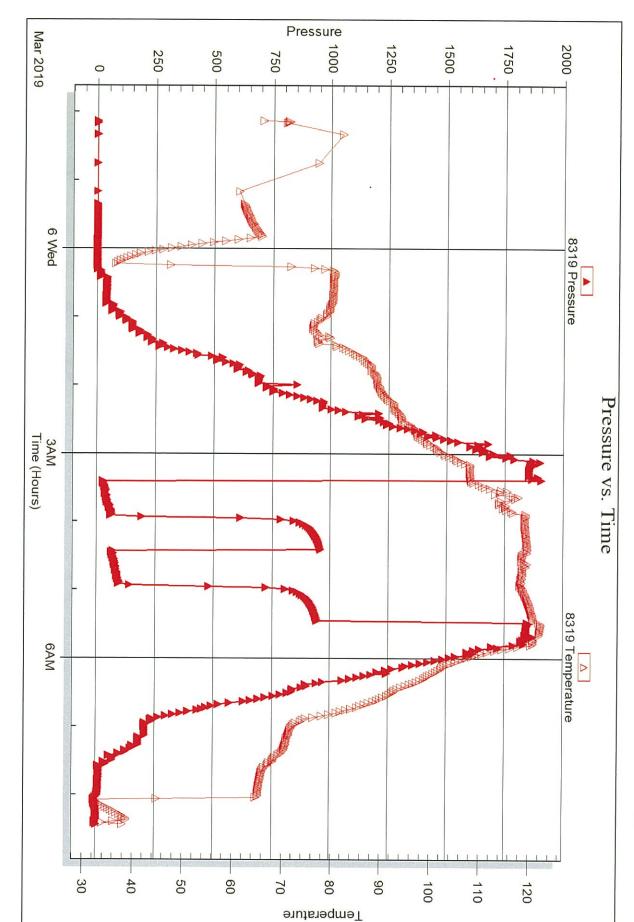
DST Test Number: 1

Serial #: 8522 Inside

Printed: 2019.03.11 @ 11:10:36

Ref. No: 65195

Trilobite Testing, Inc



Outside Palomino Petroleum, Inc

Coberly-Hearn #1

DST Test Number: 1

Serial #: 8319



DRILL STEM TEST REPORT

Prepared For:

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,

r: Palomino Petroleum, Inc

4924 SE 84th St Newton, KS 67114

ATTN: Jerry Smith

Coberly-Hearn #1

31-14s-27w Gove,KS

 Start Date:
 2019.03.06 @ 21:34:00

 End Date:
 2019.03.07 @ 05:47:45

 Job Ticket #:
 65196
 DST #:
 2

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

Printed: 2019.03.11 @ 10:55:44

	DRILL STEM TE	EST REP	ORT	
RILOBITE	Palomino Petroleum, Inc	·····	31-14s	-27w Gove,KS
ESTING , INC.	4924 SE 84th St New ton, KS 67114			iy-Hearn #1
	ATTN: Jerry Smith			xet: 65196 DST#: 2 art: 2019.03.06 @ 21:34:00
GENERAL INFORMATION:				
Formation: LKC J - L Deviated: No Whipstock: Time Tool Opened: 00:57:45 Time Test Ended: 05:47:45	ft (KB)		Test Typ Tester: Unit No:	Bradley Walter
Interval: 3932.00 ft (KB) To 40 Total Depth: 4015.00 ft (KB) (TN 40 Hole Diameter: 7.88 inchesHole 10			Referen	ce Elevations: 2521.00 ft (KB) 2511.00 ft (CF) KB to GR/CF: 10.00 ft
Serial #: 8522 Inside Press@RunDepth: 41.67 psig Start Date: 2019.03.06 Start Time: 21:34:05 TEST COMMENT: 30- IF: 1" blow . 30- ISI: No return 30- FF: 1" blow .	End Date: End Time:	2019.03.07 05:47:44	Capacity: Last Calib.: Time On Btm: Time Off Btm:	0
30- FSI: No return Pressure vs. T		Time		SURE SUMMARY
2000	-	■ Time (Min.) 0	(psig) (de	emp Annotation eg F)
		60 61 91 119 121	21.24 10 34.87 10 938.14 10 34.83 10 41.67 11 338.02 11	04.68Initial Hydro-static03.70Open To Flow (1)07.87Shut-In(1)09.79End Shut-In(1)09.67Open To Flow (2)1.24Shut-In(2)2.41End Shut-In(2)2.79Final Hydro-static
		1 29 60 61 91 119 121	21.24 10 34.87 10 938.14 10 34.83 10 41.67 11 338.02 11	03.70 Open To Flow (1) 07.87 Shut-In(1) 09.79 End Shut-In(1) 09.67 Open To Flow (2) 1.24 Shut-In(2) 2.41 End Shut-In(2)
те (Кал)		1 29 60 61 91 119 121	21.24 10 34.87 10 938.14 10 34.83 10 41.67 11 338.02 11 1886.74 11	D3.70 Open To Flow (1) 107.87 Shut-In(1) 109.79 End Shut-In(1) 19.67 Open To Flow (2) 1.24 Shut-In(2) 2.41 End Shut-In(2) 2.79 Final Hydro-static

.

RILOBITE	DRILL STEM T	ESTREP			
	Palomino Petroleum, Inc		31-14s-27	w Gove,	(S
ESTING , INC			Coberly-	Hearn #1	
	New ton, KS 67114		Job Ticket:	65196	DST#: 2
	ATTN: Jerry Smith		Test Start:	2019.03.06 (@ 21:34:00
GENERAL INFORMATION:					
Formation: LKC J - L Deviated: No Whipstock: Time Tool Opened: 00:57:45 Time Test Ended: 05:47:45	ft (KB)		Test Type: Tester: Unit No:	Conventior Bradley Wa 78	nal Bottom Hole (Reset) alter
Interval:3932.00 ft (KB) To40'Total Depth:4015.00 ft (KB) (TVHole Diameter:7.88 inchesHole			Reference Ki	Elevations: B to GR/CF:	2521.00 ft (KB) 2511.00 ft (CF) 10.00 ft
Serial #:8319OutsidePress@RunDepth:psigStart Date:2019.03.06Start Time:21:34:05	② 3933.00 ft (KB) End Date: End Time:	2019.03.07 05:47:44	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2019.03.07
30- ISI: No return. 30- FF: 1" blow. 30- FSI: No return. 30- FSI: No return					
30- ISI: No return. 30- FF: 1" blow.		- 📾 Time		JRE SUMM	
30- ISI: No return. 30- FF: 1" blow . 30- FSI: No return	SIC EXD Trappase I I I I I I I I I I I I I I I I I I I	- xa Time (Min.) - 190 - 90 - 90 - 90 - 90 - 90 - 90 - 90 -		Annotati	
30- ISI: No return. 30- FF: 1" blow . 30- FSI: No return		(Min.) 50 50 50 50 50 50 50 50 50 50	Pressure Temp (psig) (deg F	Annotati	
30- ISI: No return. 30- FF: 1" blow . 30- FSI: No return		(Min.) 50 50 50 50 50 50 50 50 50 50	Pressure Temp (psig) (deg F	Annotati) as Rates	
30- ISI: No return. 30- FF: 1" blow . 30- FSI: No return Pressure vs. The BED Pressure 200 200 200 200 200 200 200 200 200 20	CIC EXP Trapenter Total Company Total Company T	(Min.) 50 50 50 50 50 50 50 50 50 50	Pressure Temp (psig) (deg F	Annotati) as Rates	ion
30- ISI: No return. 30- FF: 1" blow . 30- FSI: No return Pressure vs. The BED Pressure 200 200 200 200 200 200 200 200 200 20	CIC EXP Trapenter Total Company Total Company T	(Min.) 50 50 50 50 50 50 50 50 50 50	Pressure Temp (psig) (deg F	Annotati) as Rates	ion
30- FF: 1" blow . 30- FS: No return Pressure vs. The second state of the second state	CIC EXP Trapenter Total Company Total Company T	(Min.) 50 50 50 50 50 50 50 50 50 50	Pressure Temp (psig) (deg F	Annotati) as Rates	ion

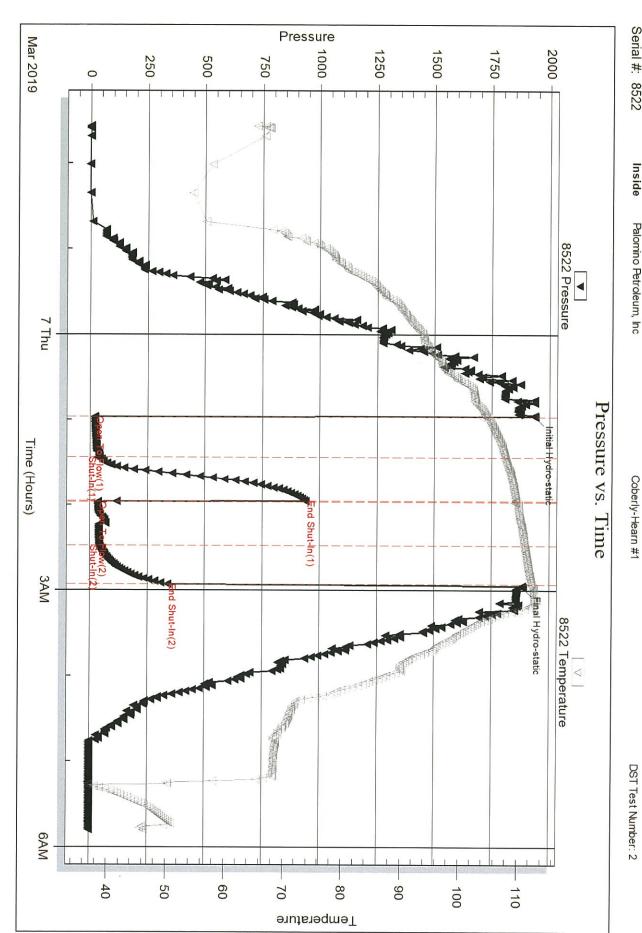
(N)	RILO		DRI	LL ST	EM 7	rest	REPO	RT			TOOL DIAGRA
			Palomin	no Petroleur	n, inc			31-	14s-27w G	ove,K	S
	 EST	FING , INC	1 70270	E 84th St n, KS 67114	4			Col	berly-Hear	n #1	
			TNOW LOP	n, NO 07 1 14	+			Job	Ticket: 65196	5	DST#: 2
			ATTN:	Jerry Smil	th			Test	Start: 2019.	03.06 @) 21:34:00
Tool Informatio	on										
Drill Pipe:	Length:	3460.00 ft	Diameter:	3.80	inches	Volume:	48.53 bbl	7	ool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00 bbl		Veight set on	Packer:	
Drill Collar:	Length:	470.00 ft	Diameter:	2.25	inches	Volume:	2.31 bbl		Veight to Pull		
Drill Pipe Above H	/D·	25.00 44			Total	Volume:	50.84 bbl	-	ool Chased		0.00 ft
Depth to Top Pac		25.00 ft 3932.00 ft						5	String Weight:	Initial	70000.00 lb
Depth to Bottom F		5552.00 ft								Final	70000.00 lb
Interval between		83.00 ft									
Tool Length:	l'achord.	110.00 ft									
Number of Packe	rs:	2	Diameter:	6.75	inches						
Number of Packe Tool Comments:	rs:	2	Diameter:	6.75	inches						
Tool Comments: Tool Descriptic	on		ngth (ft)	6.75 Serial No		sition	Depth (ft)	Accum.	Lengths		
Tool Comments: Tool Descriptic Change Over Sub	on		ngth (ft) 1.00			sition	Depth (ft) 3906.00	Accum.	Lengths		
Tool Comments: Tool Descriptic Change Over Sub Shut In Tool	on		ngth (ft) 1.00 5.00			Sition		Accum.	Lengths		
Tool Comments: Tool Descriptic Change Over Sub Shut In Tool Hydraulic tool	on		ngth (ft) 1.00 5.00 5.00				3906.00	Accum.	Lengths		
Tool Comments: Tool Descriptic Change Over Sub Shut In Tool Hydraulic tool Jars	on		ngth (ft) 1.00 5.00				3906.00 3911.00	Accum.	Lengths		
Tool Comments: Tool Descriptic Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint	on		ngth (ft) 1.00 5.00 5.00				3906.00 3911.00 3916.00	Accum.	Lengths		
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars Safety Joint Packer	on		ngth (ft) 1.00 5.00 5.00 5.00		. Pos		3906.00 3911.00 3916.00 3921.00	Accum.	Lengths 27.00		Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 2.00		. Pos	Fluid	3906.00 3911.00 3916.00 3921.00 3923.00	Accum.			Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 2.00 5.00		. Pos	Fluid	3906.00 3911.00 3916.00 3921.00 3923.00 3928.00	Accum.			Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sub Shut In Too! Hydraulic tool Jars Safety Joint Packer Packer Stubb	on		ngth (ft) 1.00 5.00 5.00 2.00 2.00 5.00 4.00		. Pos	Fluid	3906.00 3911.00 3916.00 3921.00 3923.00 3928.00 3932.00	Accum.			Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	on		ngth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00	Serial No	. Pos	Fluid	3906.00 3911.00 3916.00 3921.00 3923.00 3928.00 3932.00 3933.00	Accum.			Bottom Of Top Packer
Tool Comments: Fool Descriptic Change Over Sub Shut In Tool Hydraulic tool Hars Safety Joint Packer Packer Stubb Recorder Recorder	on		ngth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	Serial No 8522	. Pos	Fluid Inside Inside	3906.00 3911.00 3916.00 3921.00 3923.00 3928.00 3932.00 3933.00 3933.00	Accum.			Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations))		ngth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00	Serial No 8522	. Pos	Fluid Inside Inside	3906.00 3911.00 3916.00 3921.00 3923.00 3932.00 3932.00 3933.00 3933.00	Accum.			Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub))	Ler	ngth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 14.00	Serial No 8522	. Pos	Fluid Inside Inside	3906.00 3911.00 3916.00 3921.00 3923.00 3928.00 3932.00 3933.00 3933.00 3933.00 3933.00	Accum.			Bottom Of Top Packer
Tool Comments:	9n	Ler	ngth (ft) 1.00 5.00 5.00 2.00 2.00 4.00 1.00 0.00 14.00 1.00	Serial No 8522	. Pos	Fluid Inside Inside	3906.00 3911.00 3916.00 3921.00 3923.00 3928.00 3932.00 3933.00 3933.00 3933.00 3933.00 3947.00	Accum.			Bottom Of Top Packer

(FERD)	RILOBITE	Paloming	-L STEM TEST			w Gove,KS	FLUID SL	
	ESTING , INC.	4924 SE			Coberly-H	learn #1		
		ATTN:	Jerry Smith		Job Ticket: 6 Test Start: 2	2019.03.06 @ 2	DST#: 2 21:34:00	
Mud and C	ushion Information							
Mud Type: G Mud Weight: Viscosity:	Gel Chem 9.00 lb/gal 60.00 sec/qt		Cushion Type: Cushion Length: Cushion Volume:		ft bbl	Oil API: Water Salinity:		deg API ppm
Water Loss: Resistivity: Salinity: Filter Cake:	7.98 in ³ ohm.m 4400.00 ppm 1.00 inches		Gas Cushion Type: Gas Cushion Pressur	e:	psig			
Recovery Ir								
-			Recovery Table					
	Lengt ft	h	Description		Volume bbl]		
		30.00	VSOCM 1%0 99%M		0.148	3		
	Total Length:	30.0	0 ft Total Volume:	0.148 bbl				

Printed: 2019.03.11 @ 10:55:45

Ref. No: 65196

Trilobite Testing, Inc



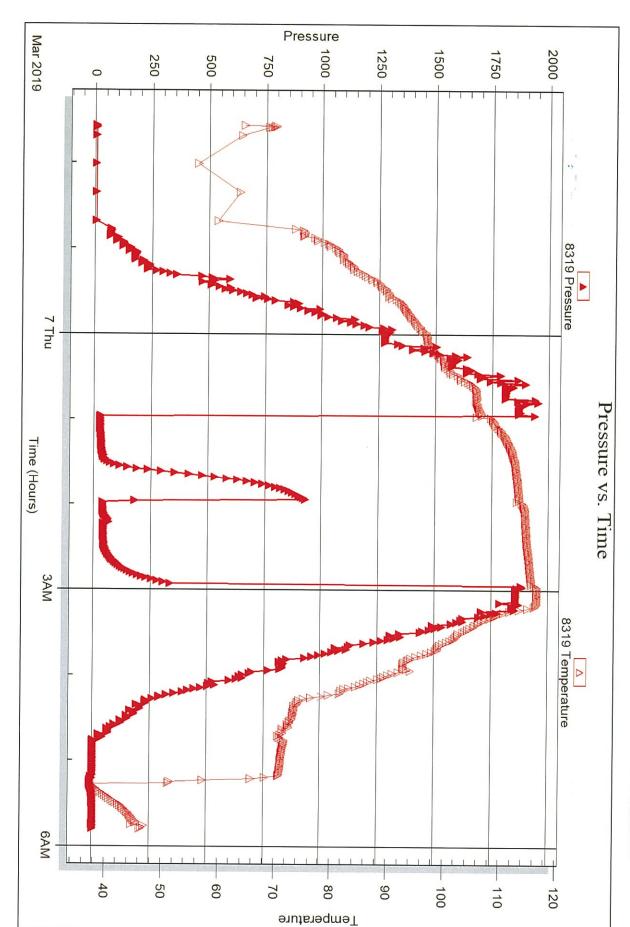
DST Test Number: 2

Serial #: 8522 Inside Palomino Petroleum, Inc

Printed: 2019.03.11 @ 10:55:45

Ref. No: 65196

Trilobite Testing, Inc



Coberly-Hearn #1

DST Test Number: 2

Serial #: 8319 Outside Palomino Petroleum, Inc



DRILL STEM TEST REPORT

Prepared For: Palomino Petroleum, Inc

4924 SE 84th St Newton, KS 67114

ATTN: Jerry Smith

Coberly-Hearn #1

31-14s-27w Gove,KS

Start Date: 2019.03.08 @ 04:00:16 End Date: 2019.03.08 @ 12:12:46 Job Ticket #: 65157 DST#: 3

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

Printed: 2019.03.11 @ 10:55:03

	DRILL STEM	TES	ST REP	ORT				
RILOBITE	Palomino Petroleum, Inc			31-	-14s-27v	v Gove,KS		
ESTING , INC	4924 SE 84th St New ton, KS 67114			Co	berly-H	earn #1		
	New (01, ICO 07 114			Job) Ticket: 6	5157	DST#:3	3
	ATTN: Jerry Smith			Tes	st Start: 2	019.03.08 @ (04:00:16	
GENERAL INFORMATION:	anna an							
Formation:Ft ScottDeviated:NoWhipstock:Time Tool Opened:07:47:46Time Test Ended:12:12:46	ft (KB)			Tes		Conventional Brandon Turle 79		e (Reset)
Interval: 4188.00 ft (KB) To 42				Ref	erence E	evations:	2521.00	ft (KB)
Total Depth: 4238.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole	'D) Condition: Good				1/D		2511.00	
					КВ	to GR/CF:	10.00	Γt
Serial #: 8166 Outside Press@RunDepth: 20.22 psig 0 Start Date: 2019.03.08 04:00:21	 4193.00 ft (KB) End Date: End Time: 		2019.03.08 12:12:45	Capacity Last Calil Time On Time Off	b.: Btm:	20 2019.03.08 @ 2019.03.08 @		psig
Pressure vs. Th	me							
					RESSUR	RE SUMMA	RY	
2000		14 co	Time (Min.)	PF Pressure (psig)	RESSUF Temp (deg F)	RE SUMMA		
2000 Pessare			(Min.) 0	Pressure (psig) 2040.71	Temp (deg F) 113.84	Annotation	static	
		-	(Min.) 0 2	Pressure (psig) 2040.71 16.63	Temp (deg F) 113.84 113.56	Annotation Initial Hydro-s Open To Flov	static	
300 F70 F70 F70 F70 F70 F70 F70 F			(Min.) 0 2 32 60	Pressure (psig) 2040.71 16.63 18.16 30.91	Temp (deg F) 113.84 113.56 113.13 114.30	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(1	static w (1) 1)	
300 F70 F70 F70 F70 F70 F70 F70 F			(Min.) 0 2 32 60 60	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04	Temp (deg F) 113.84 113.56 113.13 114.30 114.31	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(Open To Flov	static w (1) 1)	
330 400 Preum 400 Preum 500 500 500 500 500 500 500 50			(Min.) 0 2 32 60	Pressure (psig) 2040.71 16.63 18.16 30.91	Temp (deg F) 113.84 113.56 113.13 114.30	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(1	static w (1) 1) w (2) 2)	
		11111111111111111111111111111111111111	(Min.) 0 2 32 60 60 93 121	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04 20.22 29.24	Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 117.01	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(2) End Shut-In(2) End Shut-In(2)	static w (1) 1) w (2) 2)	
STELLAR 2021		1000 Temperature (400 F)	(Min.) 0 2 32 60 60 93 121	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04 20.22 29.24	Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 117.01 119.11	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(7 Open To Flov Shut-In(2) End Shut-In(2 Final Hydro-s	static w (1) 1) w (2) 2)	
		1000 Temperature (400 F)	(Min.) 0 2 32 60 60 93 121	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04 20.22 29.24	Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 117.01 119.11	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(2) End Shut-In(2) Final Hydro-s	static w (1) 1) w (2) 2) static	Rate (Mct/d)
Striker 2012 Trms plant) Recovery		1000 Temperature (400 F)	(Min.) 0 2 32 60 60 93 121	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04 20.22 29.24	Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 117.01 119.11	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(1) Open To Flov Shut-In(2) End Shut-In(2) Final Hydro-s	static w (1) 1) w (2) 2) static	Rate (Mcf/d)
STELLENSTREEMENTS		1000 Temperature (400 F)	(Min.) 0 2 32 60 60 93 121	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04 20.22 29.24	Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 117.01 119.11	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(2) End Shut-In(2) Final Hydro-s	static w (1) 1) w (2) 2) static	Rate (Mcf/d)
STELLENSTREEMENTS		1000 Temperature (400 F)	(Min.) 0 2 32 60 60 93 121	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04 20.22 29.24	Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 117.01 119.11	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(2) End Shut-In(2) Final Hydro-s	static w (1) 1) w (2) 2) static	Rate (Mcf/d)
STELLENSTREEMENTS		1000 Temperature (400 F)	(Min.) 0 2 32 60 60 93 121	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04 20.22 29.24	Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 117.01 119.11	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(2) End Shut-In(2) Final Hydro-s	static w (1) 1) w (2) 2) static	Rate (Mcf/d)
STELLENSTREEMENTS		1000 Temperature (400 F)	(Min.) 0 2 32 60 60 93 121	Pressure (psig) 2040.71 16.63 18.16 30.91 18.04 20.22 29.24	Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 117.01 119.11	Annotation Initial Hydro-s Open To Flov Shut-In(1) End Shut-In(2) End Shut-In(2) Final Hydro-s	static w (1) 1) w (2) 2) static	Rate (Mcf/d)

RILOBITE	Palomino Petroleum, Inc		31-14s-27	w Gove,K	S
ESTING , INC	4924 SE 84th St New ton, KS 67114		Coberly-l		
	ATTN: Jerry Smith			2019.03.08 (DST#: 3 @ 04:00:16
GENERAL INFORMATION:					- 100 al
Formation:Ft ScottDeviated:NoWhipstock:Time Tool Opened:07:47:46Time Test Ended:12:12:46	ft (KB)		Test Type: Tester: Unit No:	Convention Brandon Tu 79	al Bottom Hole (Reset) ırley
Interval:4188.00 ft (KB) To423Total Depth:4238.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Reference I	∃evations: 3 to GR/CF:	2521.00 ft (KB) 2511.00 ft (CF) 10.00 ft
Serial #: 6651InsidePress@RunDepth:psig (Start Date:2019.03.08Start Time:04:01:04	 4193.00 ft (KB) End Date: End Time: 	2019.03.08 12:13:28	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2019.03.08
TEST COMMENT: IF: 1/2" blow built IS: No return.	to 1 1/2"				
FF: No blow . FS: No return.					
	2010 0091 Tarpaniare	Time	PRESSU Pressure Temp	RE SUMM	
FS: No return.	CO91 Temperature	(Min.)		Annotati	
FS: No return.	CODI Temperature CODI Tempera	(Min.)	Pressure Temp (psig) (deg F	Annotati	
FS: No return.	DOI Tropondum Topol Topol Topol Topol Topol Topol Topol Topol Topol Top	(Min.)	Pressure Temp (psig) (deg F	Annotati	on
FS: No return.		(Min.)	Pressure Temp (psig) (deg F	Annotati	on

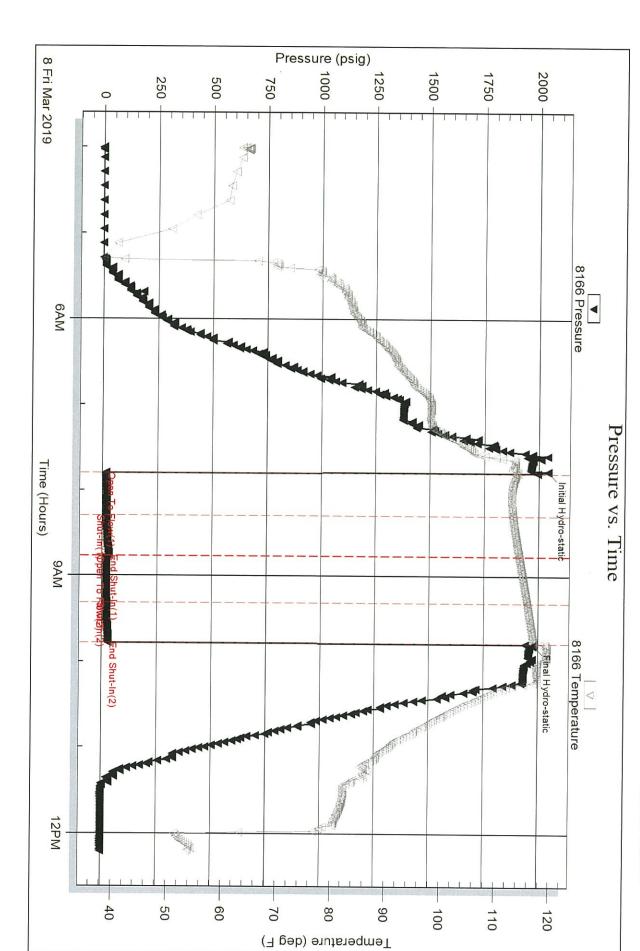
ON TR	ILOBIT	TF	DRI	LL ST	EM TEST	Γ REPO	RT	TOOL DIAGRAI
			Palomin	o Petroleur	n, Inc	•	31-14s-27w Gove,K	(S
	ESTIN	IG , INC		E84th St			Coberly-Hearn #1	
			New ton	, KS 67114	4		Job Ticket: 65157	DST#: 3
			ATTN:	Jerry Smit	h		Test Start: 2019.03.08 (@ 04:00:16
Tool Information								
Drill Pipe: Lei	ngth: 37	711.00 ft	Diameter:	3.80	inches Volume:	52.06 bbl	I Tool Weight:	2500.00 lb
	ngth:	0.00 ft	Diameter:	0.00	inches Volume:	0.00 bbl	-	r: 30000.00 lb
Drill Collar: Ler	ngth: 4	470.00 ft	Diameter:	2.25	inches Volume:	2.31 bbl	Weight to Pull Loose:	85000.00 lb
Drill Pipe Above KB:		16.00 ft			Total Volume:	54.37 bbl		0.00 ft
Depth to Top Packer:	41	188.00 ft					String Weight: Initial	75000.00 lb
Depth to Bottom Pack		ft					Final	75000.00 lb
Interval between Pac	kers:	54.00 ft						
Tool Length:		77.00 ft						
		2	Diameter:	6.75	inches			
Number of Packers: Tool Comments:		2	Diameter:	6.75	inches			
		2	Diameter:	6.75	inches			
Tool Comments:		_						
Tool Comments: Tool Description		_	ngth (ft)	6.75 Serial No			Accum. Lengths	
Tool Comments: Tool Description Stubb		_	1.00			4166.00	Accum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool		_	ngth (ft) 1.00 5.00			4166.00 4171.00	Accum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool		_	ngth (ft) 1.00 5.00 5.00			4166.00	Accum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars		_	ngth (ft) 1.00 5.00			4166.00 4171.00	Accum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint		_	ngth (ft) 1.00 5.00 5.00			4166.00 4171.00 4176.00	Accum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer		_	agth (ft) 1.00 5.00 5.00 5.00			4166.00 4171.00 4176.00 4181.00	Accum. Lengths	Bottom Of Top Packer
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer - Shale		_	1.00 5.00 5.00 5.00 2.00			4166.00 4171.00 4176.00 4181.00 4183.00		Bottom Of Top Packer
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer - Shale		_	ngth (ft) 1.00 5.00 5.00 5.00 2.00 5.00			4166.00 4171.00 4176.00 4181.00 4183.00 4188.00		Bottom Of Top Packer
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer - Shale Stubb		_	agth (ft) 1.00 5.00 5.00 2.00 5.00 4.00			4166.00 4171.00 4176.00 4181.00 4183.00 4188.00 4192.00		Bottom Of Top Packer
Tool Comments: Fool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer - Shale Stubb Recorder		_	ngth (ft) 1.00 5.00 5.00 2.00 5.00 2.00 4.00 1.00	Serial No	. Position	4166.00 4171.00 4176.00 4181.00 4183.00 4183.00 4188.00 4192.00 4193.00		Bottom Of Top Packer
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer - Shale Stubb Recorder Recorder		Ler	ngth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	Serial No 6651	. Position	4166.00 4171.00 4176.00 4181.00 4183.00 4188.00 4192.00 4193.00 4193.00		Bottom Of Top Packer
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer - Shale Stubb Recorder Recorder Perforations		Ler	agth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00	Serial No 6651	. Position	4166.00 4171.00 4176.00 4181.00 4183.00 4188.00 4192.00 4193.00 4193.00		Bottom Of Top Packer
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer - Shale Stubb Recorder Recorder Recorder Perforations Change Over Sub		Ler	agth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 10.00	Serial No 6651	. Position	4166.00 4171.00 4176.00 4181.00 4183.00 4183.00 4192.00 4193.00 4193.00 4193.00 4193.00		Bottom Of Top Packer
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars		Ler	ngth (ft) 1.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 10.00 1.00	Serial No 6651	. Position	4166.00 4171.00 4176.00 4181.00 4183.00 4188.00 4192.00 4193.00 4193.00 4193.00 4203.00 4203.00		Bottom Of Top Packer

•

RILO		DRI	LLS	STEM TEST	REPOR	Г	FLL	JID SUMMAR
		Palomi	no Petro	oleum, inc		31-14s-27	w Gove,KS	
	TING , INC		SE 84th m, KS 6			Coberly- Job Ticket:		iT#: 3
		ATTN:	Jerry	Smith			2019.03.08 @ 04:00:	
Mud and Cushion In	formation							
/iscosity: 56.00 Water Loss: 8.79 Resistivity: 0.00 Salinity: 4000.00	ohm.m			Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressum	e:	ft bbl psig	Oil API: Water Salinity:	0 deg APł 0 ppm
Recovery Informatio	n							
	1	1-	1	Recovery Table				
	Lengt ft	n		Description		Volume bbl		
		5.00	Mud 1	00%M		0.02	5	
Te	otal Length:	5	.00 ft	Total Volume:	0.025 bbl			

Printed: 2019.03.11 @ 10:55:04

Ref. No:



Outside Palomino Petroleum, Inc

Coberly-Hearn #1

DST Test Number: 3

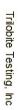
Trilobite Testing, Inc

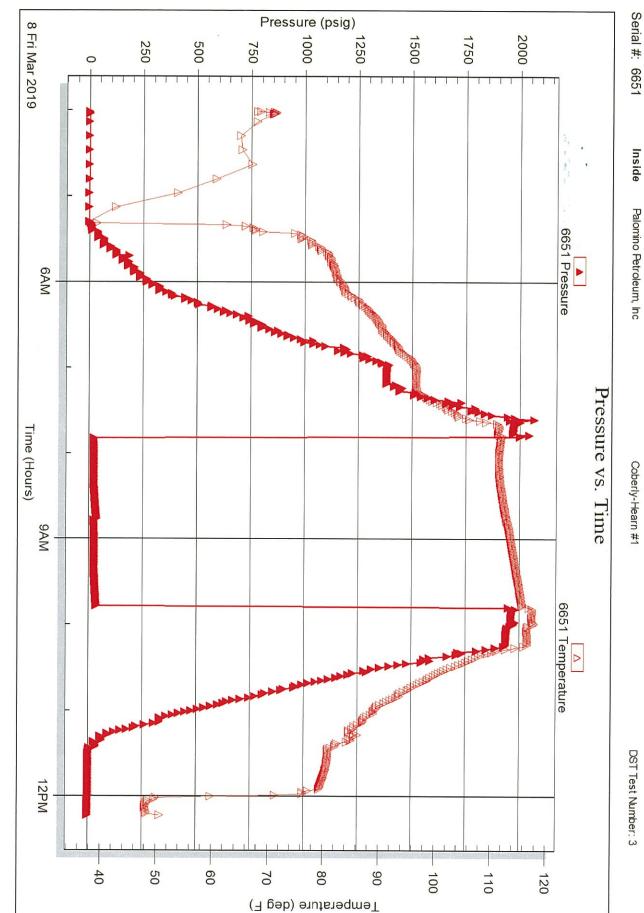
65157

Serial #: 8166

Printed: 2019.03.11 @ 10:55:04

Ref. No: 65157





Coberly-Hearn #1

RILOBIT ESTIN 1515 Commerce		Test Ticket NO. 65195
7 0	no Petroleum Las Eleval	$\begin{array}{c c} & & \\ \text{Ion} & & \\ \hline 252(& \text{KB} & \\ \hline 252(& \text{KB} & \\ \hline 251/ & \text{GL} \\ \hline 671/4 & \\ \hline WW & \\ \hline 4^{+} & \\ \hline 24 & \\ \hline \end{array}$
Location: Sec. <u>31</u> Twp	145 Rge. 27W Co. (cove State 5
Interval Tested 3869-393	D Zone Tested	H-I
Anchor Length(2)	Drill Pipe Run3 4	-00 Mud Wt. <u>Si</u> 9
Top Packer Depth3864	Drill Collars Run 4	<u>70 vis 55</u>
Bottom Packer Depth3.6.6	WI. Pipe Run	
Total Depth3930	Chlorides 4000	ppm System LCM L
Blow Description <u>TE</u> <u>s</u> " <u>blo</u>	d	
	1 <i>4</i> ₁	
FF3½"b	$\left(\partial_{\omega}\right)$	
FSI Na ce	lorm :	
Rec_150_ Feet of WCM		as %oil 35 %water 65 %mud
Rec Feet of	%g	as %oil %water %mud
	%ga	as %oil %water %mud
	%ga	as %oil %water %mud
RecFeet of		
Rec Total ISO BHT		321 @ 46 'F Chlorides 33,000 ppm
	<u>48</u> Tost 1200	T-On Location/ 900
(B) First Initial Flow	21 Jars 250	T-Started
(C) First Final Flow	58 Salety Joint 75	T-Open
	56 Q Circ Sub	
	63 G Hourly Standby	T-Out <u>08'2C</u>
	13Mileage 11 0 AT 110	Comments
	<u>39</u> 🗆 Sampler	
(H) Final Hydrostatic1 8.	/	C EM Tool
	Shale Packer_250	Q Ruined Shale Packer
Initial Open	🖸 Extra Packer	
Initial Shut-In	Extra Recorder	
Final Flow	SC Dextra Recorder SC Day Standby	Sub Total
Final Shut-In	🛛 Accessibility	Total1885
	Sub Total 1885	MP/D8T Discit
Approved By	Our Represent	ative

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

RILOBITE		Test Ticket
4/10 ESTING IN 1515 Commerce Parkv	I C. vay • Hays, Kansas 67601	NO. 65196
Well Name & No. <u>Coherly-He</u> Company <u>Palomino</u> <u>Petroloum</u> Address <u>4974 SE SUH</u> SI Co. Rep/Geo. <u>Jerry</u> <u>Smath</u> Location: Sec. <u>31</u> Twp <u>145</u>	Inc Elevation New ton, IS 67114- Rig	<u>2 Date 3/07/2019</u> 2521 КВ <u>2511</u> GL 42 State <u>К</u>
Interval Tested 3932-4015	•	E+L
Anchor Length§3		
Top Packer Depth392.7	Drill Collars Run 470	
Bottom Packer Depth3432	(
Total Depth Lf0 [5	Chlorides4400pp	n System LCM / #
Blow Description IF block		
<u> </u>		
	<u>/</u>	
	%gas	/ %oil %water 99 %mud
Rec Feet of Rec Feet of		<u>%oil %water %mud</u> %oil %water %mud
Rec Feet of		<u>%oil %water %mud</u> <u>%oil %water</u> %mud
Rec Feet of	<u> </u>	%oil%water%mud
Rec Total 3() BHT 112		@F Chloridesppm
(A) Initial Hydrostatic 1937		T-On Location $2/00$
(B) First Initial Flow 21	250	T-Started 2134
(C) First Final Flow 3.5		T-Open0100
(D) Initial Shut-In	\Z Circ Sub	T-Pulled 0.300
(E) Second Initial Flow35	- D Hourly Standby	- T-Out <u>0548</u>
(F) Second Final Flow42	Mileage <u>// 0 //7 110</u>	Comments
(G) Final Shut-In <u>338</u>	_ 🗆 Sampler	· · · · · · · · · · · · · · · · · · ·
(H) Final Hydrostatic 1887	O Straddle	
	Shale Packer	
Initial Open	Extra Packer	
Initial Shut-In30		
Final Flow Go		Sub Total
Final Shut-In3C		
	Sub Total	MP/DST DISPT
Approved By	Our Representative	harris

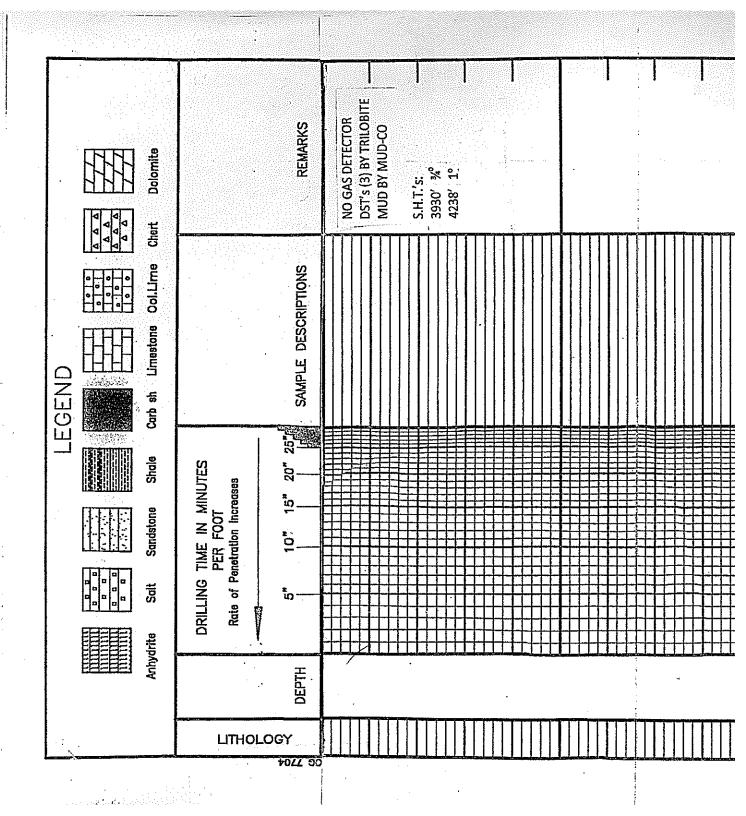
Approved By ______ Our Representative ______ Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indiffectly, through the use of its equipment, or its statements or opinion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

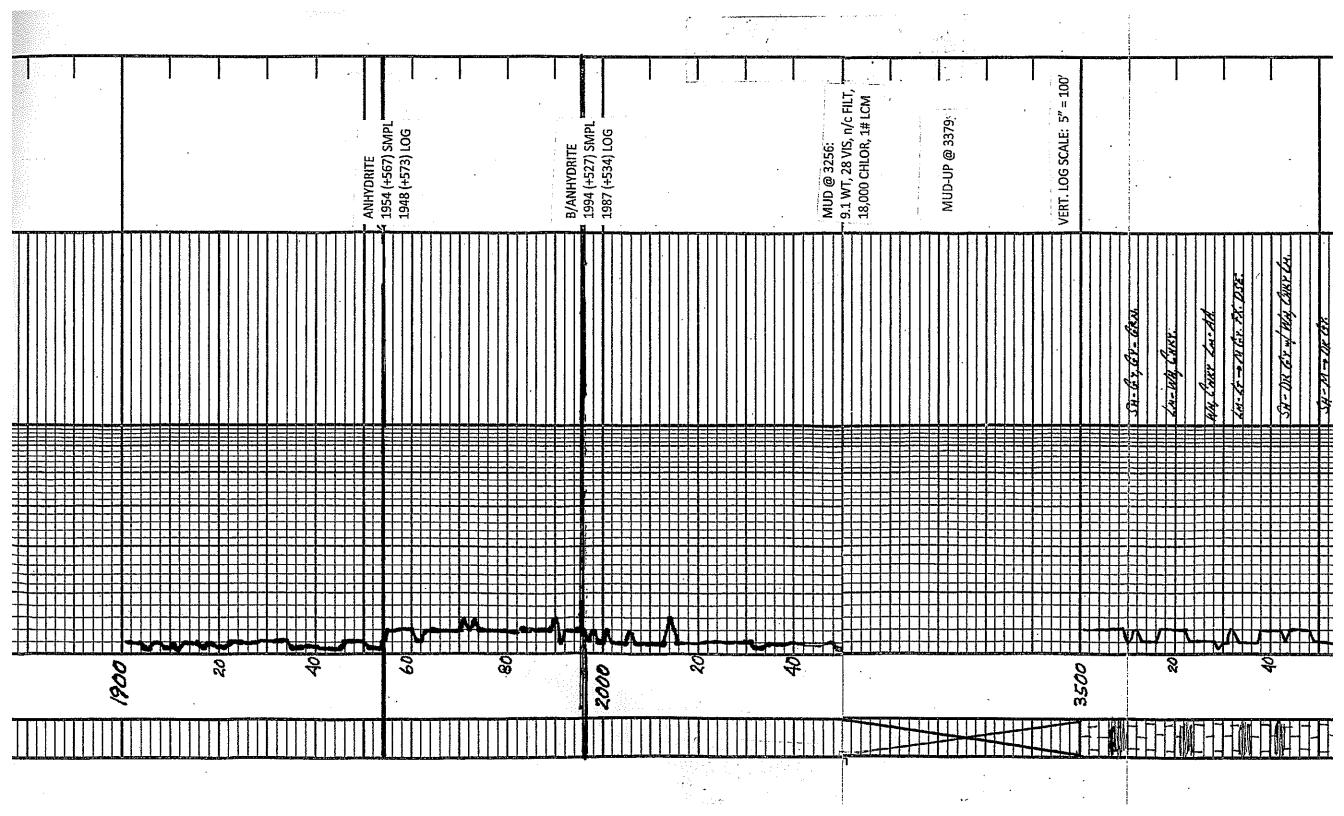
	RILOBITE ESTING INC.			t Ticket	
4/10	1515 Commerce Parkway		NO.	65157	
Well Name & No CompanyPq / Address	oberly-homino Petr	ern #/ Test No. Oleum Inc Elevation	3 2521	Date <u>3-8-19</u> KB <u>2511</u>	GL
Co. Rep / Geo.	Terry 5m	ith Rig	WWi	#24	
Location: Sec. 3	1		ove	State KS	
Interval Tested 418	8 423	8 Zone Tested Ft,	scott		
Anchor Length	50	Drill Pipe Run 37//		Mud Wt. 9, 2	
Top Packer Depth	4183	Drill Collars Run 470		Vis 56	
Bottom Packer Depth	4188	Wt. Pipe Run	-	WL_8,8	
Total Depth			ppm System		
Blow Description		built to 1/2	1		
	T. No refl	nn,			
FF	No blow.				
F5	No retur	n,			
	eet of Mud	%gas	%oil	%water / 0 0	%mud
	eet of		%oil	%water	%mud
	eet of		%oil	%water	%mud
	eet of	%gas	%oil	%water	%mud
	eet of	%gas			%mud
Rec Total5		_ Gravity API RW			ppm
(A) Initial Hydrostatic	2040	Test 1300	T-On L	ocation $3:05$	
(B) First Initial Flow	16	2 Jars 250	T-Start		
(C) First Final Flow		Safety Joint 75	Т-Орег	the second se	
(D) Initial Shut-In	30	Circ Sub NIC	T-Pulle		
(E) Second Initial Flow _	18	Hourly Standby	T-Out	12:14	
(F) Second Final Flow _	20 .	Mileage 110-X2 2	20 Comm		
(G) Final Shut-In	29	Sampler	108	aded tools 3/9 13:09	
(H) Final Hydrostatic	1976	Straddle			
		Shale Packer 250		I Tool ined Shale Packer	
Initial Open 30		C Extra Packer		ined Packer	
Initial Shut-In	20	Extra Recorder		ra Copies	
Final Flow	30	Day Standby		tal0	
Final Shut-In	N 70	Accessibility		0.005	
٨		Sub Total		Bisc't	
Approved By	A. Son	Our Representati			-

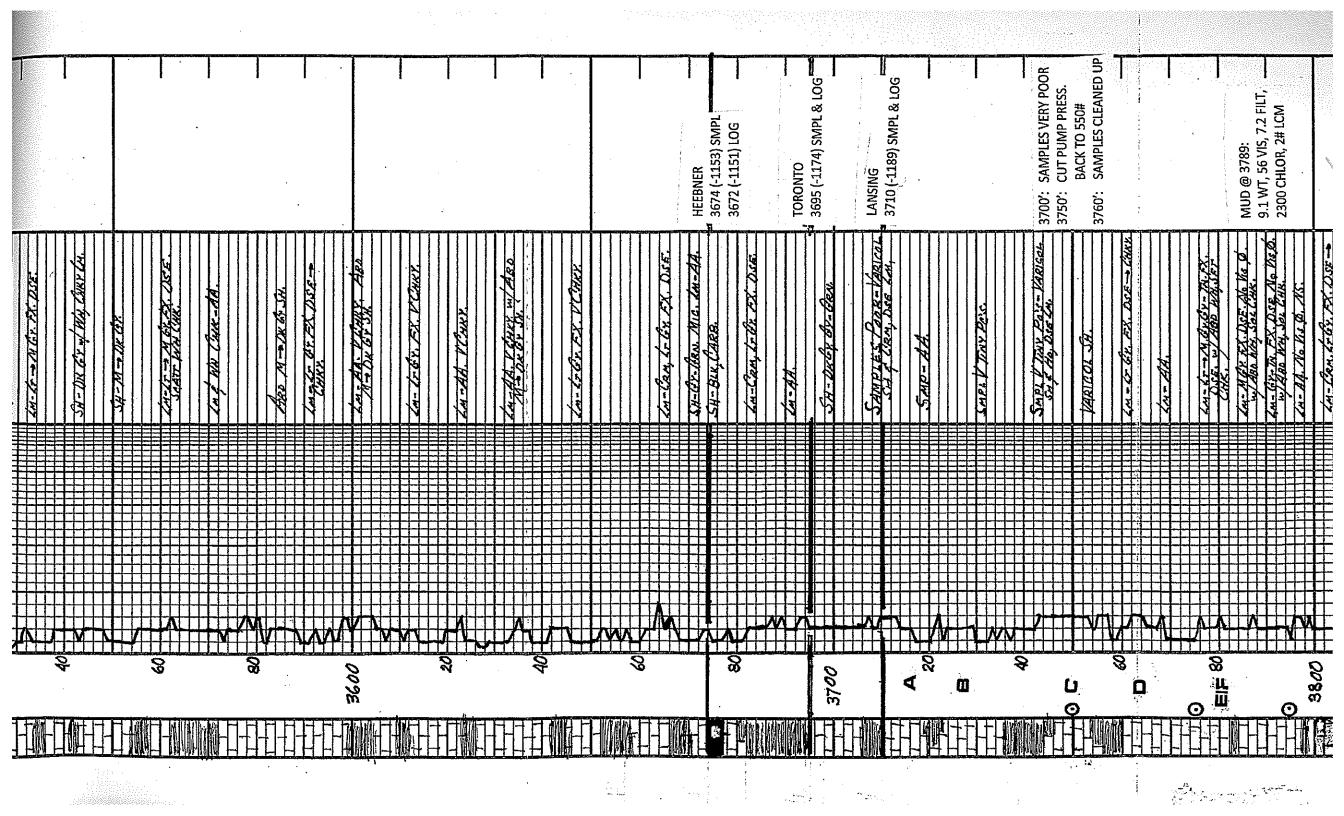
Trilobite Testing Inc. shall not be table for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indiffectly, through the use of its equipment, or its statements or aginion concerning the results of any test, tools lost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

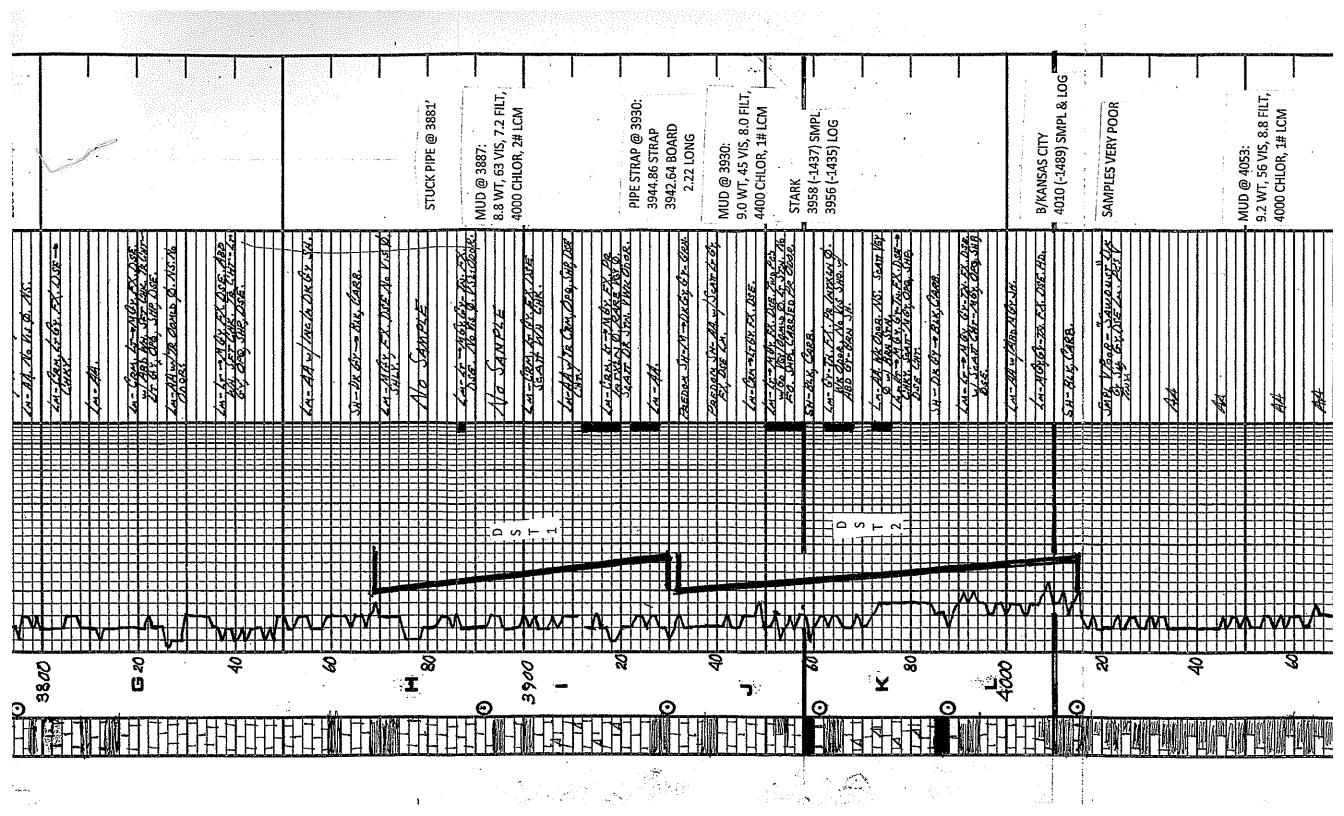
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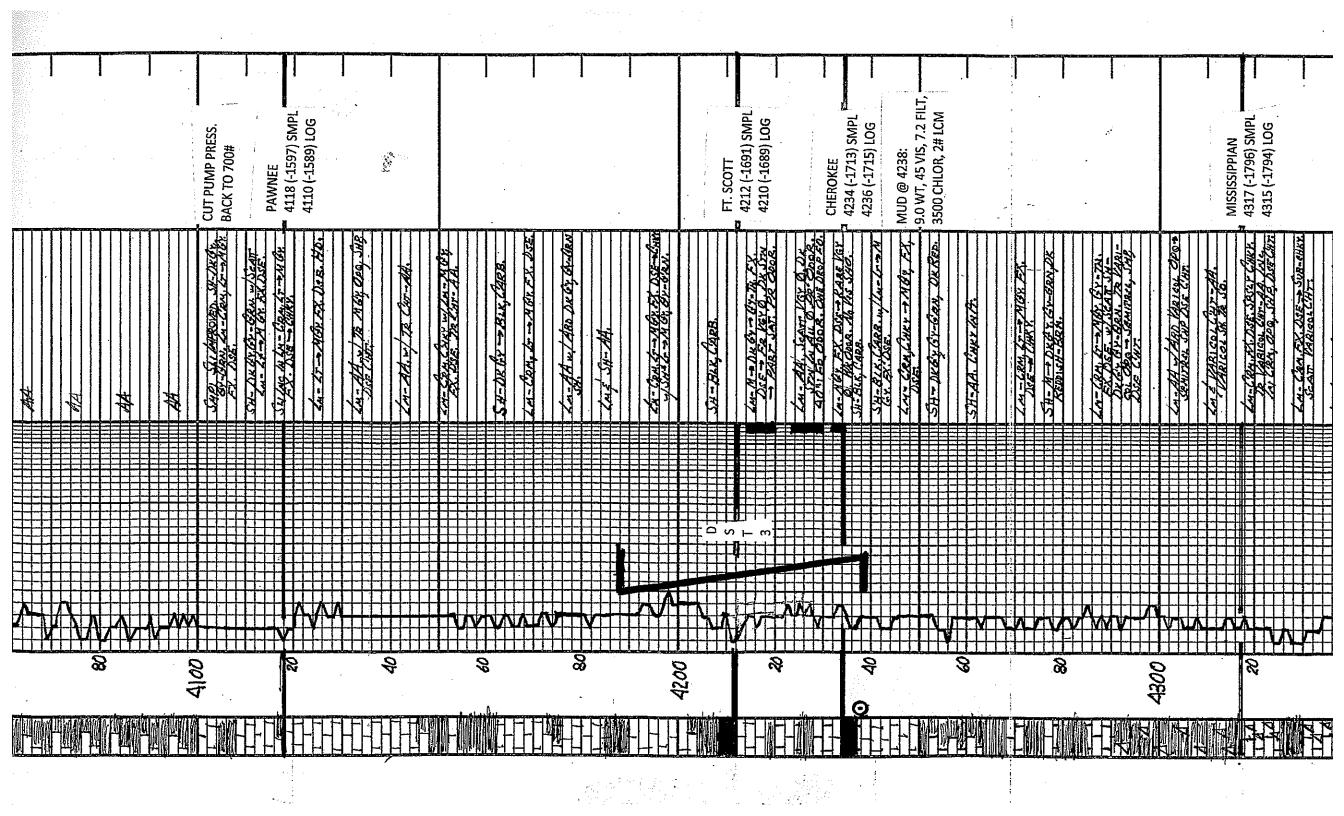
A JER	RY A. SM	MITH
	PETROLEUM	GEOLOGIST
		2
1	EOLOGIST'S REPO	
COMPANY: PALOMINO PETRO	DLEUM, INC	ELEVATIONS
LEASE: COBERLY - HEARN #	1	K.B. 2521
FIELD: LEIGHTON SOUTHEAS	Γ	D.F.
LOCATION: 147' FSL & 1729' F	EL	G.L. 2511
SEC. 31 TWSP. 14	RNG.27W	Measurements Are All From
COUNTY: GOVE	STATE: KANSAS	КВ
CONTRACTOR: WW DRLG. RIC	G #24	CASING
SPUD: 2/27/2019	COMP. 3/09/2019	SURFACE: 8 5/8" @ 223'
RTD. 4450	LTD. 4450	PRODUCTION: P&A
MUD UP: 3379	TYPE MUD: CHEMIC	AL ELECTRICAL SURVEYS
API No. 15-063-	22349	ELI: CDL/CNL/PE, DIL, MEL, SONIC
SAMPLES SAVED FROM: 3500)	TO: RTD
DRILLING TIME KEPT FROM:	1900/3500	TO: 2050/RTD
SAMPLES EXAMINED FROM: 3	500	TO: RTD
GEOLOGICAL SUPERVISON FR	ROM: 3250	TO: RTD
GEOLOGIST ON WELL: JERRY	Y A. SMITH	
FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1948 (+573)	1954 (+567)
B/ANHYDRITE	1987 (+534)	1994 (+527)
HEEBNER	3672 (-1151)	3674 (-1153)
TORONTO	3695 (-1174)	3695 (-1174)
LANSING	3710 (-1189)	3710 (-1189)
STARK	3956 (-1435)	3958 (-1437)
B/KANSAS CITY	4010 (-1489)	4010 (-1489)
PAWNEE	4110 (-1589)	4118 (-1597)
FT. SCOTT	4210 (-1689)	4212 (-1691)
CHEROKEE	4236 (-1715)	4234 (-1713)
MISSISSIPPIAN	4315 (-1794)	4317 (-1796)











<u> </u>		Image: state	2000 × 2000 × 2000 × 2000 × 2000	220 020 - 2110 0020 - 224 - 25		
			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	tr dr. fr. fr. Hitt. Juess w Cor Contract Cor Contract Marine Contract Sear Carl		
NANE	1400 1400		Dorof Chr 44.	1. 2. m/54-08		· · · · · · · · · · · · · · · · · · ·
TNUNDI			Daray Carry Sar HA.	<i>u-HH.</i> Sean tor d. Cey Or-day		
ANAN			Dara, Chr. & Sh. AA	2. AH 1-AH]	
NNNIII			Dore, Chr. & Sa-AA	â-24	TOTAL DEPTH 4450 (-1929) ROTARY & LOG	
	3 8					
]	
	LITHOLOGY	5" 10" 15" 20" 2 DRILLING TIME MINUTES/FOOT	5ª SAMPLE	DESCRIPTIONS	REMARKS	
COMPA	COMPANY: PALOMINO PETROL	O PETROLEUM, INC.	ELEVATION: 2521 KB			
LEASE:		ARN #1				
COUNTY:	GOVE	& 1/29 FEL	SEC 31 11	TWP 14	KGE 27W	
						· · · · · · · · · · · ·
		BRILDBITE DRILL STEM RILOBITE Palomino Petroleum, Inc. ESTING, INC 4924 SE84th St. Newton, KS 67114 ATTN: Jerry Smith	STEM TEST REPORT froleum, inc th St 5 67114 ry Smith	T 31 14s 27w Gove, Ks Coberly-Hearn #1 Job Ticket: 65195 DST# Test Start: 2019.03.05 @ 22:03:00	ve, Ks 1 #1 13.05 @ 22:03:00	
	-					

lest lype: Conventional Bottom Hote (Initial) Tester: Bradley Watter Unit No: 78	2521.00 ft (KB) 2511.00 ft (CF) 10.00 ft	8000.00 psig 19.03.06 03:23:45 05:29:00		RY	w (1) w (2) w (2) static		s (paig) Gas Rate (McR0)	@ 10:03:45			C.11	00:4:10	Corventional Bottom Hole (Reset) Bradley Watter 78	2521.00 ft (KB) 2511.00 ft (CF) 10.00 ft	8000.00 psig 019.03.07 0.057:30 0.02:57:45	
e: Conventional B Bradley Watter 78	Reference Bevations: KB to GR/CF	8000.00 2019,03.06 2019,03.06 @ 03:23:45 2019,03.06 @ 05:29:00		PRESSURE SUMMARY	Temp Annotation (deg F) 105.47 Open To Flow (1) 111.99 Shut-h(1) 114.02 End Shut-h(1) 113.85 Open To Flow (2) 114.90 Shut-h(2) 116.84 End Shut-h(2) 117.47 Final Hydro-static	Gas Rates	Choke (inches) Pressure (psig)	Printed: 2019.03.06 @ 10:03:45		: 27w Gove, Ks	Coberly-Hearn #1	Jub licker. 2019.03.06 @ 21:34:00	1	Reference Elevations: KB to GR/CF:	8000.00 F 2019.03.07 11 2019.03.07 @ 00:57:30 11 2019.03.07 @ 02:57:45	
lest lyp Tester: Unit No:	Referen	Capacity: Last Catb.: Time On Burr Time Off Burr		PRES	Pressur (psty) 57.898.0 57.85.11 856.11 95.9 92.9 939.0 1858.2 1858.2	-			ORT	31 14s 27w	Cober	Job Incret. Test Start:	Test Type: Tester: Unit No:	Referen	7 Capacity: 7 Last Calib.: 4 Time On Btm Time Off Btm	
	۲ ۱	2019.03.06 08:25:45							STEM TEST REPOR						2019.03.07 05:47:44	• •
(FR)	06 ft (HB) (TVD) Indition: Good	3870.00 ft (KB) End Date: End Time:					Volumo (bb)	Ref. No: 65195	DRILL STEM	Palomino Petroleum, Inc	4924 SE 84th St Newton, Ks 67114	ATTN: Jerry Smith	tt (KB)	4015.00 ft (KB) (TVD) (TVD) tole Condition: Good	3933.00 ft (KB) End Date: End Time:	
No Wripstock: : 03:19:30 08:20:45	3869.00 ft (KB) To 3930.00 ft (KB) (TVD) 3930.00 ft (KB) (TVD) 7.88 inchesHole Condition: Good	tnside 92.97 psig @ 2019.03.05 22.08:05	: 17: 5" blow . 151: No return. 17: 3 112" blow . FSt. No return.	Pressue vs. Thuc			/ cm 35w 65m	, inc.		}	ESTING, NO		ORMATION: LKC J,K,L No Whipstock: 00:57:45	KB) To ft (KB) i inchest	Inside 41.67 psig 2019.03.06 21:34:05	1: 30- 15: 1" blow. 30- 15: No return. 30- FE: 1" blow.
Leviareo: No Time Tool Opened: 03: Time Test Ended: 08:	Interval: 3869. Total Depth: 3 Hole Diameter:	Serial #: 8522 Press@RunDepth: Start Date: Start Time:	TEST COMMENT:				Length (f) W CR	Triobite Testing, Inc					GENERAL INFORMATION: Formation: LKC J,K,L Deviated: No Whip: Time Tool Opened: 00:57:45 Time Test Ended: 05:47:45	<u>6</u>	Serial #: 8522 Press@RunDepth: Start Date: Start Time:	TEST COMMENT:

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Chides (inches) Pressure (psig) Ges Rate (McKd) Conventional Bottom Hole (Reset) Brandon Turley 2521.00 ft (KB) 2511.00 ft (CF) 10.00 ft 8000.00 psig 2019.03.08 2019.03.08 @ 07:46:16 2019.03.08 @ 09:47:46 DST#:3 Printed: 2019.03.07 @ 07:13:37 Test Start: 2019.03.08 @ 04:00:16 Initial Hydro-static Open To Flow (1) Open To Flow (2) Shut-h(2) Final Hydro-static Initial Hydro-static Open To Flow (1) Open To Flow (2) Shut-h(2) Final Hydro-static PRESSURE SUMMARY End Shut-h(1) End Shut-In(2) PRESSURE SUMMARY End Shut-In(1) End Shut-h(2) Annotation Shut-h(1) Annotation 31 14s 27w Gove, Ks Shut-h(1) Gas Rates KB to GRICF: Reference Hevations: Coberly-Hearn #1 Job Ticket: 65157 62 113.84 113.56 113.13 114.30 114.31 114.31 115.81 117.01 117.01 Temp (deg F) 107.87 109.79 109.67 111.24 112.41 112.79 104.68 103.70 Temp (deg F) Test Type: Time On Btm Time Off Btm Uhit No: Tester: Last Calib.: Capacity: Pressura (psig) 16.63 16.63 18.66 18.04 18.04 18.04 20.22 20.22 29.24 1976.94 Pressure (psig) 1936.59 34.87 34.87 34.87 34.87 34.87 34.87 34.87 34.67 338.02 1886.74 DRILL STEM TEST REPORT 2 2 8 8 8 7 **0** 2019.03.08 12:12:45 0 -(in the second s Time (Min.) Temperature (deg F) Temperatura (deg ?) **F** \$ 2 2 8 ŧ. ß . 8 8 R Ē. Volume (bbl) Palomino Petroleum, Inc Ref. No: 65196 4193.00 ft (KB) End Date: 4924 SE 84th St New ton, Ks 67114 Jerry Smith 0.15 4238.00 ft (KB) (TVD) ft (KB) Good End Time: Ð 4188.00 ft (KB) To 4238.00 ft (KB 4238.00 ft (KB) (TVD) 7.88 inchesHole Condition: IF: 1/2 blow built to 1 1/2. RS: No return. FF: No blow . FS: No return. ş ATTR LE: 0 Time. 30- FF: 1" blow . 30- FSI: No return. er tra Recovery ESTING, NO 20.22 psig 2019.03.08 04:00:21 Whipstock: Description States and Outside Ę RILOBITE ł GENERAL INFORMATION: Deviated: No Wh Time Tool Opened: 07:47:46 Time Test Ended: 12:12:46 osm 1o 99m Ft Scott Iniobite Testing, Inc 0 TEST COMMENT: Θļ Press@RunDepth: Start Date: Serial #: 8166 Recovery from multi Hole Diameter: **Interval:** Total Depth: (li) (li) Formation: Start Time: 30.00 18 à A Ŕ 8 C (Eles) etusenii (Giad) sintesad

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Cholae (inches) Pressure (psig) Gas Rate (Mc80) Conventional Bottom Hole (Reset) Brandon Turley 2521.00 ft (KB) 2511.00 ft (CF) 10.00 ft bisq 8000.00 F 2019.03.08 2019.03.08 @ 07:46:16 2019.03.08 @ 09:47:46 Printed: 2019.03.08 @ 13:04:41 DST#:3 Test Start: 2019.03.08 @ 04:00:16 Initial Hydro-static Open To Flow (1) End Shut-In(1) Open To Flow (2) Final Hydro-static PRESSURE SUMMARY End Shut-In(2) Annotation Shut-h(2) Shut-h(1) 31 14s 27w Gove, Ks Gas Rates KB to GROF: Reference Bevations: Coberly-Hearn #1 Job Ticket: 65157 62 Temp (deg F) 113.84 113.56 113.13 114.30 114.31 115.81 115.81 117.01 119.11 Test Type: Tester: Uhit No: Capacity: Last Calib.: Time On Bim Time Off Bim Pressure (psig) 16.63 16.63 18.16 30.91 18.04 18.04 18.04 20.22 29.24 1976.94 STEM TEST REPORT 122 13 98 66 32 2 0 123 133 98 66 32 2 0 2019.03.08 12:12:45 Time (Min.) Temperature (deg F) B S R **B** 8 1 8 Ð ß Voturne (bbl) Ref. No: 65157 Palomino Petroleum, Inc 4193.00 ft (KB) End Date: End Time: Jerry Smith 0.02 4924 SE 84th St New ton, Ks 67114 4238.00 ft (KB) (TVD) ft (KB) 4238.00 ft (KB) (TVD) 7.88 inchesHole Condition: Good 0 DRILL IF: 1/2 blow built to 1 1/2. IS: No return. FF: No blow . FS: No return. ATTA or Time 0 Time (thus) Recovery 20.22 psig 2019.03.08 04:00:21 ESTING, MO Whipstock: 4188.00 ft (KB) To -Outside Ĩ RILOBITE **GENERAL INFORMATION:** a S S S S S mud 100%m Ft Scott Time Tool Opened: 07:47:46 Time Test Ended: 12:12:46 Tritobite Testing, Inc £ ٥ł TEST COMMENT: • Press@RunDepth: Start Date: Serial #: 8166 ecovery from multi Hole Diameter: Total Depth: Length (f) Formation: Start Time: ь¢ Deviated: Interval: 5.00 8 6 8 ŧ. (Bin) NVERNA

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o: 65196

Printed: 2019.03.07 @ 07:13:37

Recovery from multiple tests Trilobite Testing, inc

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Ref. No: 65196