KOLAR Document ID: 1461625

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:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
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: sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
☐ EOR Permit #:	Location of fluid disposal if fladica offsite.
GSW Permit #:	Operator Name:
_	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
Recompletion Date Recompletion Date	County: Permit #:

#### **AFFIDAVIT**

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

**Submitted Electronically** 

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

KOLAR Document ID: 1461625

#### Page Two

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

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BACHAND 1
Doc ID	1461625

### Tops

Name	Тор	Datum
Anhy.	2370	(+ 440)
Base Anhy.	2403	(+ 407)
Topeka	3670	(- 860)
Heebner	3884	(-1074)
Lansing	3920	(-1110)
Muncie Creek	4046	(-1236)
Stark	4127	(-1317)
ВКС	4179	(-1369)
Marmaton	4205	(-1395)
Pawnee	4297	(-1487)
Ft. Scott	4383	(-1573)
Cherokee Sh.	4413	(-1603)
Miss.	4473	(-1663)
LTD	4560	(-1750)

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BACHAND 1
Doc ID	1461625

#### 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	215	Common	2% gel, 3% c.c.



FEB 25 2019



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

Date: 2/20/2019 Invoice # 1226

P.O.#:

Due Date: 3/22/2019 Division: Russell

## Invoice

Contact:

Palomino Petroleum Inc Address/Job Location:

4924 SE 84th Newton Ks 67114

Reference:

BACHABD 1 SEC 22-10-29

Description of Work:

**PLUG JOB** 

Services / Items Included:	Quantity		Price	Taxable	ltem .	Quantity		Price	Taxable
Labor		\$	657.71	Yes		quantity		11106	raxable
Common-Class A	144	\$	2,186.77	Yes					1
POZ Mix-Standard	96	\$	495.38	Yes					- 1
Premium Gel (Bentonite)	9	\$	192.40	Yes					- 1
Bulk Truck Matl-Material Service Charge	249	\$	183.56	Yes					
Pump Truck Mileage-Job to Nearest Camp	29	\$	96.20	Yes					•
Flo Seal	60	\$	88.46	Yes					
Bulk Truck Mileage-Job to Nearest Bulk Plant	29	\$	74.82	Yes					
Dry Hole Plug	1	\$	61.92	Yes					
Invoice Terms:						SubTotal:	¢	4,037.24	
Not 20			5.				Ψ	4,037.24	
Net 30			Discou	ınt Availabi	le <u>ONLY</u> if Invoice is F	Paid & Received	•	(400.00)	
					within listed t	erms of invoice:	\$	(100.93)	
					SubTotal	for Taxable Items:	\$	3,936.31	
					SubTotal for N	Non-Taxable Items:	\$	=	
						Total:	\$	3,936.31	
				8.50% Sherid	lan County Sales Tax	Tax:	\$	334.59	
Thank You For Your Business	!					Amount Due:	\$	4,270.90	
					Арр	lied Payments:		200-2555-00-25643.	
						Balance Due:	\$	4,270.90	
Past Due Invoices are subject to a ser	vion charge /	onni		5 0 40/1			-	-, 0.00	

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

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665

No. 1226

Sec. Twp. Range County State On Location Well No. Lease Owner To Quality Oilwell Cementing, Inc. Contractor ( You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Type Job Charge T.D. 4558 Hole Size Csg. Depth Street Depth Tbg. Size City State Tool The above was done to satisfaction and supervision of owner agent or contractor. Depth. Cement Amount Ordered Cement Left in Csg. Shoe Joint Meas Line Displace EQUIPMENT Common Cemente Poz. Mix Pumptrk Helper Driver. Bulktrk Driver Gel. Driver Calcium Bulktrk Driver **JOB SERVICES & REMARKS** Hulls Remarks: Salt Rat Hole Flowseal Mouse Hole Kol-Seal Centralizers Mud CLR 48 **Baskets** CFL-117 or CD110 CAF 38 D/V or Port Collar Sand Handling 2 Mileage Guide Shoe Centralizer Baskets AFU Inserts Float Shoe Latch Down Pumptrk Charge Mileage Tax Discount Total Charge





QUALITY OILWELL CEMENTING, INC.

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

Date: 2/11/2019 Invoice # 993

P.O.#:

Quantity

Price

Taxable

Due Date: 3/13/2019 Division: Russell

## Invoice

Contact:

Palomino Petroleum Inc Address/Job Location:

4924 SE 84th Newton Ks 67114

Reference:

BACHAND 1 SEC 22-10-29

Services / Items Included:

Description of Work:

SURFACE JOB

Common-Class A	130	Ψ	2,000.20	165			
Calcium Chloride	7	\$	288.97	Yes			
POZ Mix-Standard	34	\$	175.45	Yes			
Bulk Truck Matl-Material Service Charge	180	\$	132.69	No			
Pump Truck Mileage-Job to Nearest Camp	29	\$	96.20	No			
Bulk Truck Mileage-Job to Nearest Bulk Plant	29	\$	74.82	No			
Premium Gel (Bentonite)	3	\$	64.13	Yes			
Investor Transpor					Cub Tatal	Œ	2.555.07
Invoice Terms:					SubTotal:	\$	3,555.27
Net 30			Discou	nt Available ONLY	if Invoice is Paid & Received	•	(00.00)
			,		vithin listed terms of invoice:	\$	(88.88)
					SubTotal for Taxable Items:	\$	2,528.99
					SubTotal for Non-Taxable Items:	\$	937.39
					Total:	\$	3,466.39
				8.50% Sheridan County Sa	les Tax Tax:	\$	214.96
Thank You For Your Business!					Amount Due:	\$	3,681.35
					Applied Payments:		
					Balance Due:	\$	3,681.35

Item

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

Quantity

Labor

Common-Class A

Price

657.71

2,065.28

Taxable

No

Yes

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

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

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

No. 993

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Date 2-11-19	55	10	29	1	eridan	14.5						PH
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Lease Bachand			Well No. #/		Owner To Quality Oilv	vell Ceme	enting Inc	3 N	14	O Rd	IW	1/2 1/
Contractor W w 10					You are hereby	y request	ed to rent	cementi	ng equip	oment a	nd furnish	n 
Type Job Surface			/		cementer and Charge			ier or co	ontractor	to do v	vork as iis	sted.
Hole Size 12 / 4		T.D.	215'		To Pa	lomin	o tet	76/21	1 po		- (3) P3	
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Tbg. Size		Depth			City			State				
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Bulktrk No. Drive		ing			Calcium 7					\$100		
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Remarks:					Salt				- 1	i i		-
Rat Hole					Flowseal							
Mouse Hole					Kol-Seal							
Centralizers					Mud CLR 48			4-1				
Baskets					CFL-117 or CI	D110 CAF	38	+				
D/V or Port Collar		- Mary			Sand	·				_ , 4		
					Handling / 8	30	-				11.	
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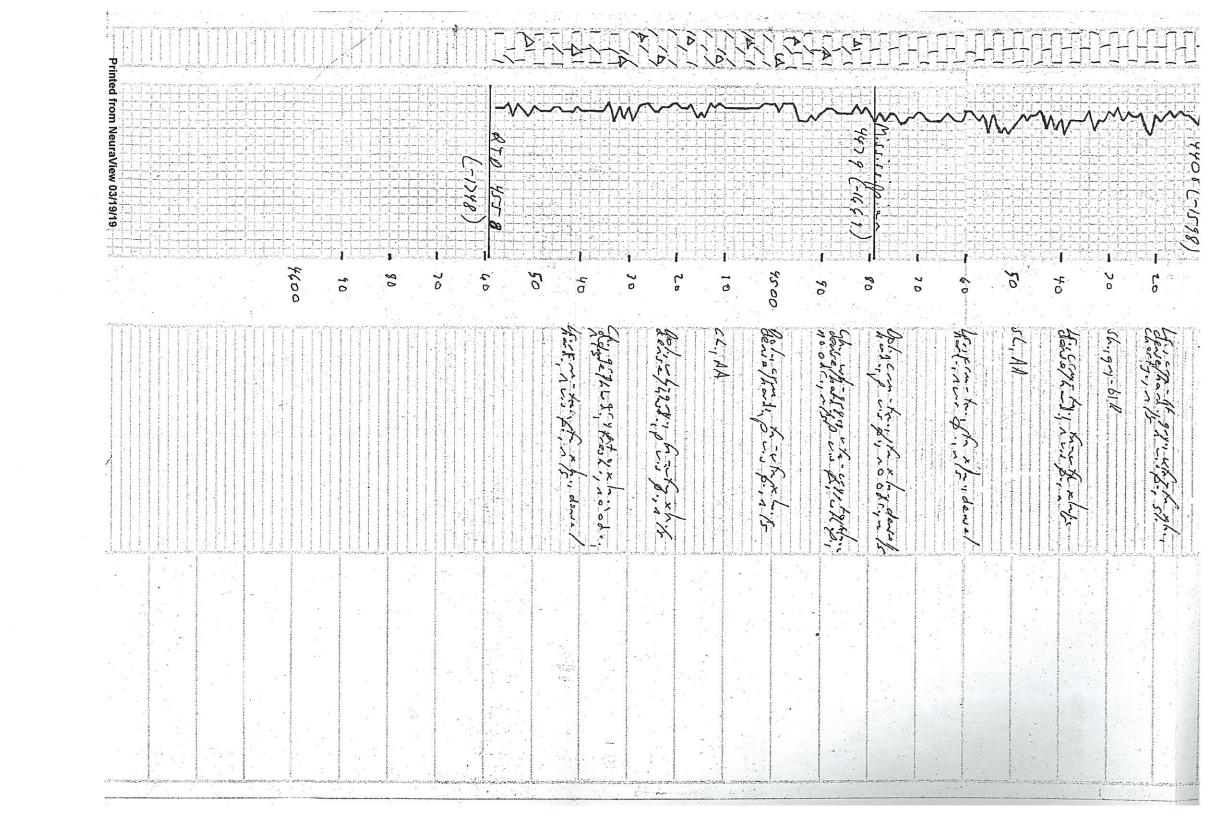
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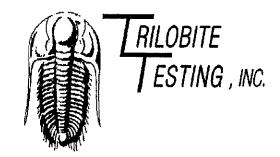
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Prepared For: Palomino Petroleum

4924 SE 84th St. Newton KS 67114

ATTN: Ryan Seib

#### Bachand #1

#### 22-10S-29W Sheridan, KS

Start Date: 2019.02.15 @ 12:17:00 End Date: 2019.02.15 @ 18:41:45 Job Ticket #: 64603 DST #: 1

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



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1

Job Ticket: 64603

DST#: 1

ATTN: Ryan Seib

Test Start: 2019.02.15 @ 12:17:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 14:59:30

Time Test Ended: 18:41:45

Formation:

Toronto

Deviated:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Royal Fisher

Unit No:

77

Interval:

3875.00 ft (KB) To 3920.00 ft (KB) (TVD)

Reference Elevations:

2810.00 ft (KB)

Total Depth:

3920.00 ft (KB) (TVD)

2805.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Poor

KB to GR/CF:

5.00 ft

Serial #: 8673

Press@RunDepth:

Inside

20.28 psig @

3876.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2019.02.15 12:17:05

End Date: End Time: 2019.02.15 18:41:44

Last Calib.: Time On Btm: 2019.02.15

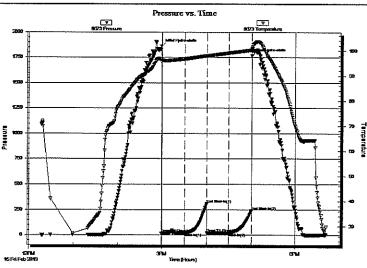
Time Off Btm:

2019.02.15 @ 14:59:15 2019.02.15 @ 17:01:15

TEST COMMENT: 30 - IFP - Surface blow built up to 1 1/4"

30 - ISI - No Return

30 - FFP - No Surface blow 30 - FSI - No Return



	PRESSURE SUMMARY					
Ī	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
	0	1861.03	96.80	Initial Hydro-static		
	1	16.15	95.50	Open To Flow (1)		
	32	18.41	96.73	Shut-in(1)		
	61	307.79	98.02	End Shut-in(1)		
Ten	62	18.76	97.92	Open To Flow (2)		
Temperature	91	20.28	99.09	Shut-In(2)		
à	122	237.94	100.31	End Shut-In(2)		
	122	1765.84	100.98	Final Hydro-static		
	'					
				1		

#### Recovery

Length (ft)	Description	Volume (bbl)	
5.00	Mw/Oil Spots - 100%m	0.02	

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

Trilobite Testing, Inc.

Ref. No: 64603



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64603

ATTN: Ryan Seib

Test Start: 2019.02.15 @ 12:17:00

#### GENERAL INFORMATION:

Time Tool Opened: 14:59:30

Time Test Ended: 18:41:45

Formation:

Toronto

Deviated:

Interval:

Total Depth:

Hole Diameter:

No Wnipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Royal Fisher

Unit No:

77

2810.00 ft (KB)

DST#: 1

Reference Elevations:

2805.00 ft (CF)

KB to GR/CF:

5.00 ft

Serial #: 8360

Inside

Press@RunDepth:

psig @ 2019.02.15

3920.00 ft (KB) (TVD)

3875.00 ft (KB) To 3920.00 ft (KB) (TVD)

7.88 inches Hole Condition: Poor

3876.00 ft (KB) End Date:

2019.02.15

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

18:41:44

Time On Btm;

2019.02.15

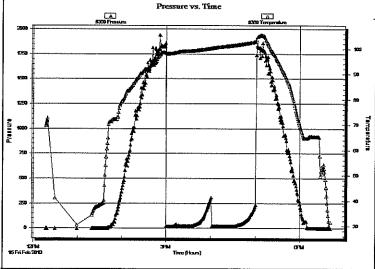
12:17:05

End Time:

Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built up to 1 1/4"

30 - ISI - No Return 30 - FFP - No Surface blow 30 - FSI - No Return



	PRESSURE SUMMARY					
]	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
-						
1						
ı						
ı		1				

#### Recovery

Length (ft)	Description	Volume (bbl)	
5.00	Mw/Oil Spots - 100%m	0.02	

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

Trilobite Testing, Inc.

Ref. No: 64603



**TOOL DIAGRAM** 

Palomino Petroleum

22-10S-29W Sheridan,KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64603

DST#: 1

ATTN: Ryan Seib

Test Start: 2019.02.15 @ 12:17:00

**Tool Information** 

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3745.57 ft Diameter:

3.25 inches Volume:

38.43 bbl

Tool Weight:

2500.00 lb

Drili Collar:

Length:

0.00 ft Diameter: 120.02 ft Diameter:

0.00 inches Volume: 2.25 inches Volume:

0.00 bbl 0.59 bbl Weight set on Packer: 25000.00 lb Weight to Pull Loose: 62000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

18.59 ft

Total Volume:

39.02 bbl

Tool Chased 0.00 ft

3875.00 ft

String Weight: Initial 60000.00 lb

Depth to Bottom Packer: Interval between Packers:

Number of Packers:

ft 45.00 ft

Final 60000.00 lb

Tool Length:

73.00 ft

Diameter:

6.75 inches

Tool Comments:

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
5.00		***************************************	3852.00		
5.00			3857.00		
5.00			3862.00		
3.00			3865.00		
5.00			3870.00	28.00	Bottom Of Top Packer
5.00			3875.00		
1.00			3876.00		
0.00	8360	Inside	3876.00		
0.00	8673	Inside	3876.00		
8.00		Outside	3884.00		
1.00		Outside	3885.00		
31.00			3916.00		
1.00			3917.00		
3.00			3920.00	45.00	Bottom Packers & Anchor
	5.00 5.00 5.00 3.00 5.00 5.00 1.00 0.00 0.00 8.00 1.00 31.00	5.00 5.00 5.00 3.00 5.00 5.00 1.00 0.00 8360 0.00 8673 8.00 1.00 31.00 1.00	5.00 5.00 5.00 5.00 3.00 5.00 5.00 1.00 0.00 8360 Inside 0.00 8673 Inside 8.00 Outside 1.00 Outside 31.00 1.00	5.00 3852.00 5.00 3857.00 5.00 3862.00 3.00 3865.00 5.00 3870.00 5.00 3875.00 1.00 3876.00 0.00 8360 Inside 3876.00 0.00 8673 Inside 3876.00 8.00 Outside 3884.00 1.00 Outside 3885.00 31.00 3916.00 1.00 3917.00	5.00 3852.00 5.00 3857.00 5.00 3862.00 3.00 3865.00 5.00 3870.00 28.00 5.00 3875.00 1.00 3876.00 0.00 8360 Inside 3876.00 0.00 8673 Inside 3876.00 8.00 Outside 3884.00 1.00 Outside 3885.00 31.00 3916.00 1.00 3917.00

Total Tool Length:

73.00

Trilobite Testing, Inc.

Ref. No: 64603



**FLUID SUMMARY** 

deg API

ppm

Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. Newton KS 67114 Bachand #1

Job Ticket: 64603

DST#: 1

ATTN: Ryan Seib

Test Start: 2019.02.15 @ 12:17:00

Oil API:

Water Salinity:

Printed: 2019.02.20 @ 08:30:33

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

9.00 lb/gal

67.00 sec/qt

Water Loss: Resistivity:

Viscosity:

6.78 in<sup>3</sup> ohm.m

Salinity: Filter Cake: 1500.00 ppm 1.00 inches Cushion Type:

Cushion Length: Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

bbl

ft

psig

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl	
5.00	Mw/Oil Spots - 100%m	0.025	

Total Length:

5.00 ft

Ref. No: 64603

Total Volume:

0.025 bbl

Num Fluid Samples: 0

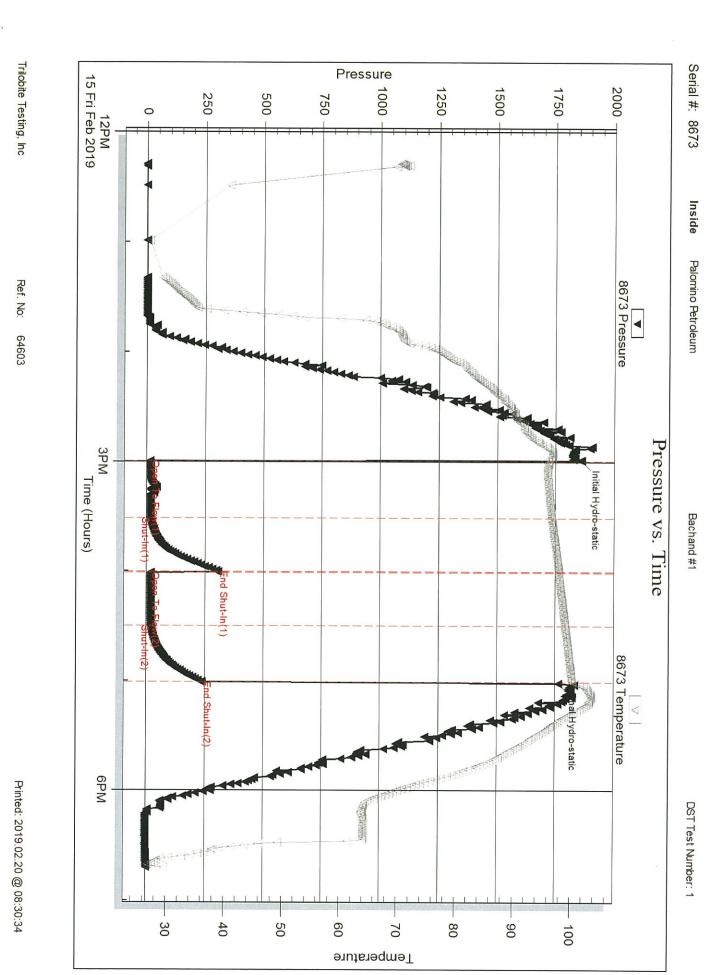
Num Gas Bombs:

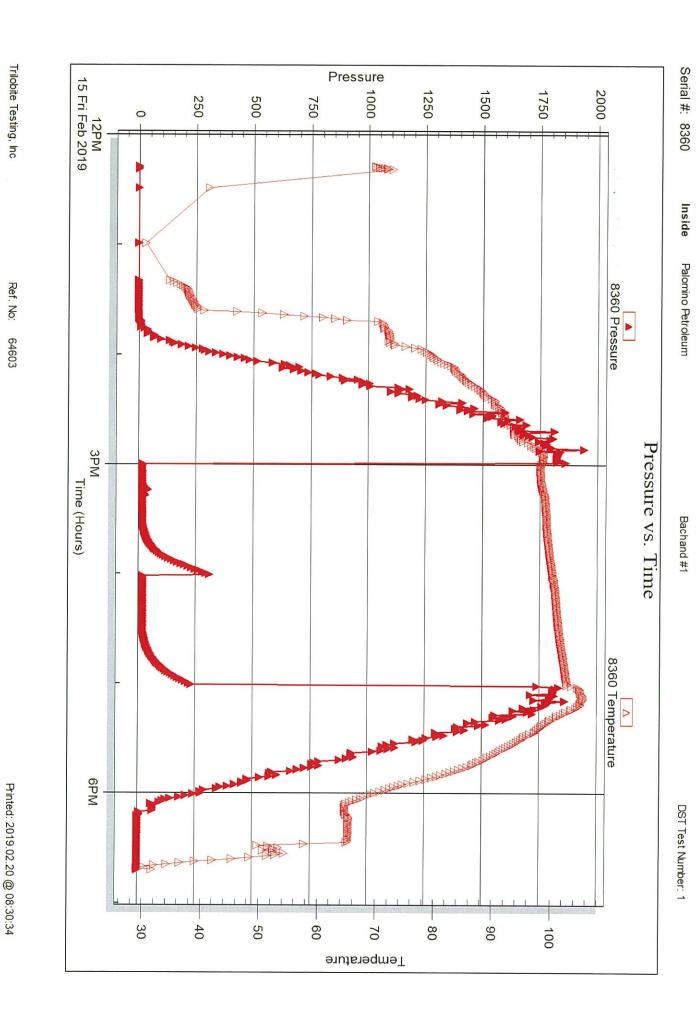
Laboratory Name:

Laboratory Location:

Serial #:

Recovery Comments:







Prepared For: Palomino Petroleum

4924 SE 84th St. Newton KS 67114

ATTN: Ryan Seib

#### Bachand #1

#### 22-10S-29W Sheridan, KS

Start Date: 2019.02.16 @ 04:00:00 End Date: 2019.02.16 @ 10:25:30

Job Ticket #: 64604 DST #: 2

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64604

DST#: 2

ATTN: Ryan Seib

Test Start: 2019.02.16 @ 04:00:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 05:34:15

Time Test Ended: 10:25:30

Formation:

LKC "B - C"

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Royal Fisher

Unit No:

77

Reference Elevations:

2810.00 ft (KB) 2805.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval: Total Depth: Hole Diameter: 3934.00 ft (KB) To 3980.00 ft (KB) (TVD)

3980.00 ft (KB) (TVD)

7.88 inches Hole Condition: Poor

Serial #: 8673

Inside

Press@RunDepth: Start Date:

75.72 psig @ 2019.02.16

3935.00 ft (KB)

End Date:

2019.02.16

Capacity: Last Calib.:

8000.00 psig

2019.02.16

Start Time:

04:00:05

End Time:

10:25:29

Time On Btm:

2019.02.16 @ 05:34:00

Time Off Btm:

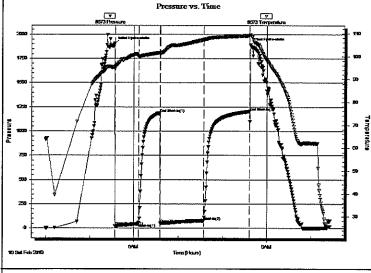
2019.02.16 @ 08:37:30

TEST COMMENT: 30 - IFP - Surface blow built up to 4"

30 - ISI - Had a faint return

60 - FFP - Surface blow built up to 1 1/4"

60 - FSI - No Return



PRESSURE SUMMARY					
Time	Pressure	Temp	Annotation		
(Min.)	(psig)	(deg F)			
0	1901.67	95.46	Initial Hydro-static		
1	21.03	94.52	Open To Flow (1)		
33	46.20	100.09	Shut-In(1)		
62	1187.27	101.53	End Shut-In(1)		
62	49.46	101.08	Open To Flow (2)		
121	75.72	107.27	Shut-In(2)		
183	1204.13	109.11	End Shut-In(2)		
184	1890.81	109.41	Final Hydro-static		
	(Min.) 0 1 33 62 62 121 183	Time (Min.) Pressure (psig)  0 1901.67  1 21.03  33 46.20  62 1187.27  62 49.46  121 75.72  183 1204.13	Time (Min.) (psig) (deg F) 0 1901.67 95.46 1 21.03 94.52 33 46.20 100.09 62 1187.27 101.53 62 49.46 101.08 121 75.72 107.27 183 1204.13 109.11		

#### Recovery

Length (ft)	Description	Volume (bbl)
125.00	WMw/Oil Spots - 50%w - 50%m	0.64
,		

Gas	Rates	

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

Trilobite Testing, Inc.

Ref. No: 64604



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64604

DST#: 2

ATTN: Ryan Seib

Test Start: 2019.02.16 @ 04:00:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 05:34:15

Time Test Ended: 10:25:30

Formation:

LKC "B-C"

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Royal Fisher

Unit No:

77

2810.00 ft (KB)

Reference Elevations:

2805.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval: Total Depth: Hole Diameter: 3934.00 ft (KB) To 3980.00 ft (KB) (TVD)

3980.00 ft (KB) (TVD)

7.88 inches Hole Condition: Poor

Serial #: 8360

Inside

Press@RunDepth:

2019.02.16

3935.00 ft (KB) psig @

End Date:

2019.02.16

Capacity: Last Calib.: 8000.00 psig

Start Date:

04:00:05

End Time:

10:25:44

Time On Btm:

2019.02.16

Start Time:

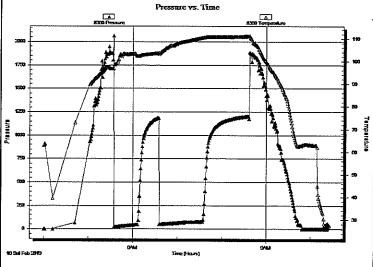
Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built up to 4"

30 - ISI - Had a faint return

60 - FFP - Surface blow built up to 1 1/4"

60 - FSI - No Return



P.	RESSUR	RE SUMMARY
Pressure	Temp	Annotation

ю.	(Min.)	(psig)	(deg F)	Aillotation
0	()	(13)	(5.7	
'				
•				
Temperature				
rature				
_				
·				
.				
- 4				I I

#### Recovery

Length (ft)	Description	Volume (bbl)
125.00	WMw/Oil Spots - 50%w - 50%m	0.64

#### Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 64604



**TOOL DIAGRAM** 

Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64604

DST#: 2

ATTN: Ryan Seib

Test Start: 2019.02.16 @ 04:00:00

**Tool Information** 

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3808.98 ft Diameter:

0.00 ft Diameter:

3.25 inches Volume: 0.00 inches Volume:

39.08 bbl 0.00 bbl Tool Weight:

2500.00 lb

Drill Collar:

Length:

120.02 ft Diameter:

2.25 inches Volume: Total Volume: 0.59 bbl

Weight set on Packer: 25000.00 lb Weight to Pull Loose: 70000.00 lb

Drill Pipe Above KB:

23.00 ft 3934.00 ft 39.67 bbl

Tool Chased 0.00 ft

Depth to Top Packer: Depth to Bottom Packer:

ft

String Weight: Initial 60000.00 lb 60000.00 lb

Interval between Packers: 46.00 ft

Final

Tool Length: Number of Packers: 74.00 ft

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut in Tool	5.00			3911.00		
Hydraulic tool	5.00			3916.00		
Jars	5.00			3921.00		
Safety Joint	3.00			3924.00		
Packer	5.00			3929.00	28.00	Bottom Of Top Packer
Packer	5.00			3934.00		
Stubb	1.00			3935.00		
Recorder	0.00	8360	Inside	3935.00		
Recorder	0.00	8673	Inside	3935.00		
Perforations	9.00		Outside	3944.00		
Change Over Sub	1.00		Outside	3945.00		
Drill Pipe	31.00			3976.00		
Change Over Sub	1.00			3977.00		
Bullnose	3.00			3980.00	46.00	Bottom Packers & Anchor

Total Tool Length:

74.00

Trilobite Testing, Inc

Ref. No: 64604



**FLUID SUMMARY** 

deg API

60000 ppm

Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1

Job Ticket: 64604

DST#: 2

ATTN: Ryan Seib

Test Start: 2019.02.16 @ 04:00:00

Oil API:

Water Salinity:

Printed: 2019.02.20 @ 08:30:05

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity: Water Loss:

67.00 sec/qt 6.78 in<sup>3</sup>

Resistivity: Salinity: Filter Cake:

ohm.m 1500.00 ppm 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

bbl

ft

psig

Recovery Information

Recovery Table

Length ft Description Volume bbl 125.00 WM w / Oil Spots - 50%w - 50%m 0.641

Total Length:

125.00 ft

Ref. No: 64604

Total Volume:

0.641 bbl

0

Num Fluid Samples: 0

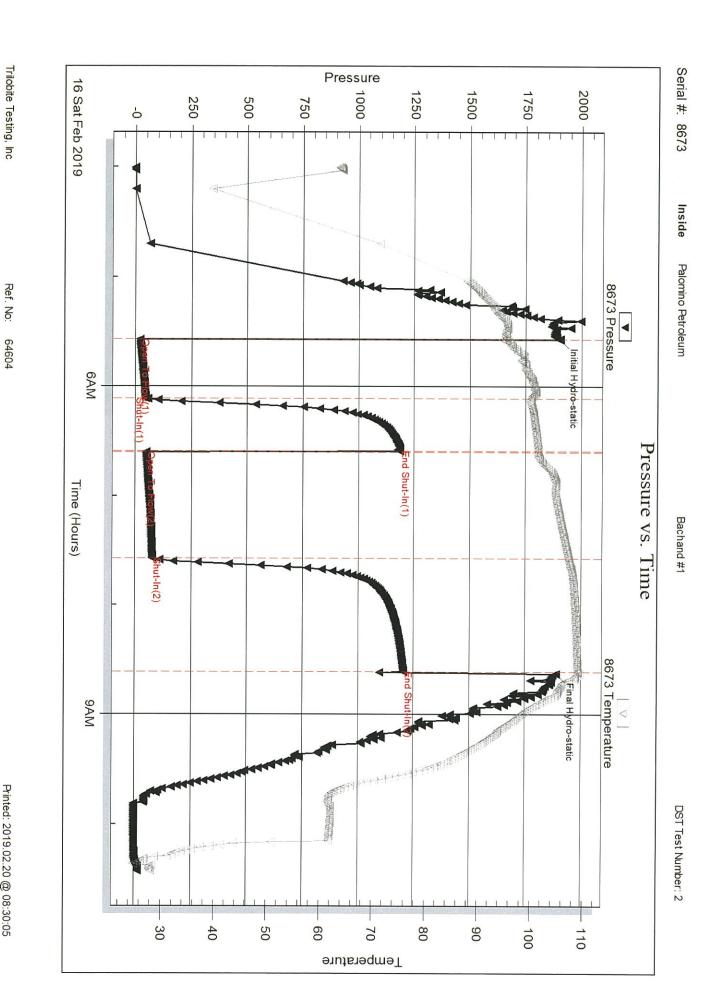
Num Gas Bombs:

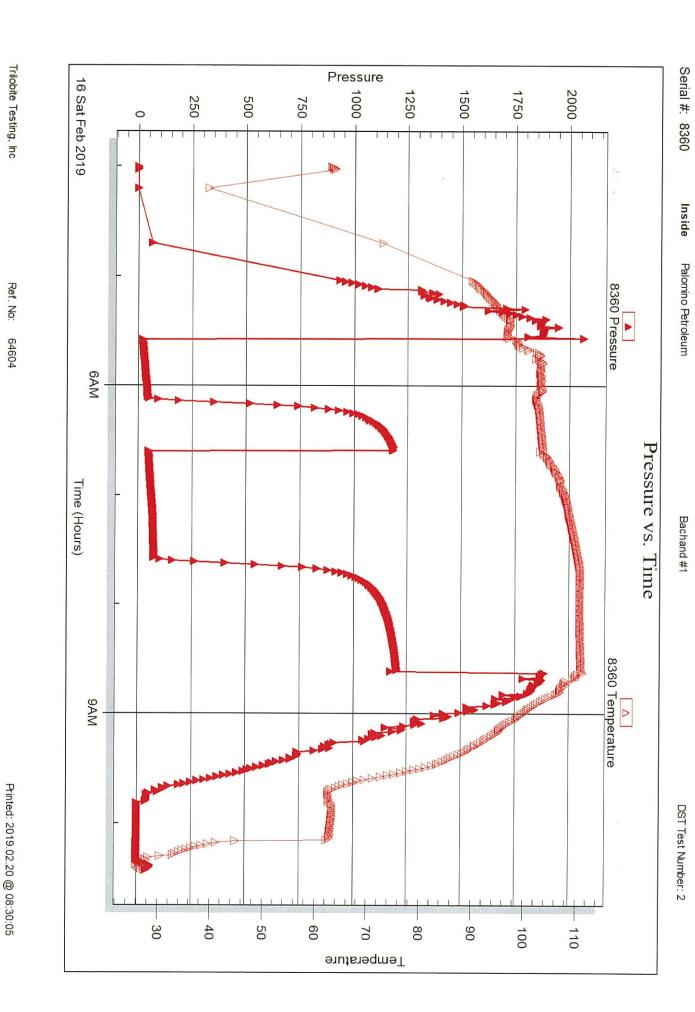
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







Prepared For: Palomino Petroleum

4924 SE 84th St. Newton KS 67114

ATTN: Ryan Seib

#### Bachand #1

#### 22-10S-29W Sheridan, KS

Start Date: 2019.02.16 @ 18:28:00 End Date: 2019.02.16 @ 23:31:30

Job Ticket #: 64605 DST #: 3

50. ...

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114

Bachand #1 Job Ticket: 64605

DST#: 3

ATTN: Ryan Seib

Test Start: 2019.02.16 @ 18:28:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 20:03:15

Time Test Ended: 23:31:30

Formation:

LKC "D-F"

Deviated:

No Wnipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Royal Fisher

Unit No:

77

3975.00 ft (KB) To 4003.00 ft (KB) (TVD)

2810.00 ft (KB)

Interval: Total Depth:

Reference Elevations:

2805.00 ft (CF)

Hole Diameter:

4003.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Press@RunDepth:

7.88 inches Hole Condition: Fair

Serial #: 8673

Outside

70.56 psig @

3976.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time: 2019.02.16 18:28:05 End Date: End Time:

2019.02.16 23:31:29

Last Calib.: Time On Btm: 2019.02.16

Time Off Btm:

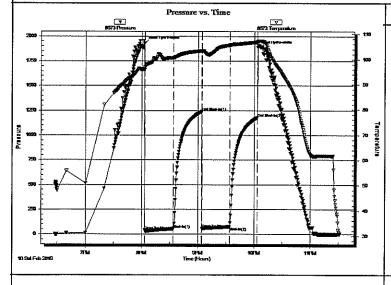
2019.02.16 @ 20:03:00 2019.02.16 @ 22:03:45

TEST COMMENT: 30 - IFP - Surface blow built up to 2 3/4" in 10 min, then died to 2 1/2"

30 - ISI - No Return

30 - FFP - Surface blow built up to 2"

30 - FSI - No Return



Ρ	RESSUR	E SUMMARY
ire	Temp	Annotation

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1926.28	96.64	Initial Hydro-static
1	38.92	95.78	Open To Flow (1)
31	53.56	100.57	Shut-ln(1)
61	1235,24	103.31	End Shut-In(1)
62	57.35	102.96	Open To Flow (2)
91	70.56	105.63	Shut-In(2)
121	1176.38	106.81	End Shut-In(2)
121	1883.00	107.31	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
121.00	WM w / Oil Spots - 40%w - 60%m	0.60

#### Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 64605



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114

Bachand #1 Job Ticket: 64605

DST#: 3

ATTN: Ryan Seib

Test Start: 2019.02.16 @ 18:28:00

#### GENERAL INFORMATION:

Time Tool Opened: 20:03:15

Time Test Ended: 23:31:30

Formation:

LKC "D-F"

Deviated:

No Whipstock:

ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Royal Fisher

Unit No:

77

2810.00 ft (KB)

Reference Elevations:

2805.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval: Total Depth:

Start Date:

Start Time:

3975.00 ft (KB) To 4003.00 ft (KB) (TVD)

4003.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 8360

Inside

Press@RunDepth:

psig @ 2019.02.16 18:28:05

3976.00 ft (KB)

End Date: End Time:

2019.02.16 23:31:29

Capacity: Last Calib.:

8000.00 psig 2019.02.16

Time On Btm:

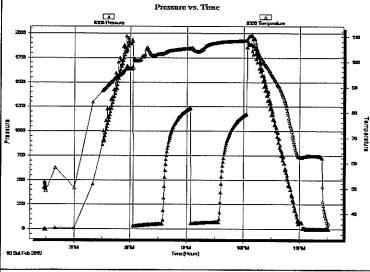
Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built up to 2 3/4" in 10 min. then died to 2 1/2"

30 - ISI - No Return

30 - FFP - Surface blow built up to 2"

30 - FSI - No Return



PRESSUR	RE SUMMARY
ure Temp	Annotation

•	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
Temperature				
reture				
	!			

#### Recovery

Length (ft)	Description	Volume (bbl)
121.00	WM w / Oil Spots - 40%w - 60%m	0.60

Gas F	₹ates
-------	-------

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

Ref. No: 64605



**TOOL DIAGRAM** 

Palomino Petroleum

4924 SE 84th St. New ton KS 67114

Job Ticket: 64605

ATTN: Ryan Seib

Bachand #1

DST#: 3

Test Start: 2019.02.16 @ 18:28:00

22-10S-29W Sheridan, KS.

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Pipe Above KB:

Length: 3840.50 ft Diameter:

Length:

0.00 ft Diameter: 120.02 ft Diameter:

3.25 inches Volume: 0.00 inches Volume: 2.25 inches Volume: 39.41 bbl 0.00 bbl 0.59 bbl 40.00 bbl

Tool Weight: Weight set on Packer: 25000.00 lb

2500.00 lb

Weight to Pull Loose: 70000.00 lb

Final

Tool Chased

0.00 ft

String Weight: Initial

60000.00 lb 60000.00 lb

Total Volume:

Depth to Top Packer: 3975.00 ft

Depth to Bottom Packer: ft Interval between Packers: 28.00 ft

Tool Length:

Drill Collar:

56.00 ft

13.52 ft

Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3952.00		
Hydraulic tool	5.00			3957.00		
Jars	5.00			3962.00		
Safety Joint	3.00			3965.00		
Packer	5.00			3970.00	28.00	Bottom Of Top Packer
Packer	5.00			3975.00		
Stubb	1.00			3976.00		
Recorder	0.00	8360	Inside	3976.00		
Recorder	0.00	8673	Outside	3976.00		
Perforations	24.00			4000.00		
Bullnose	3.00			4003.00	28.00	Bottom Packers & Anchor

Total Tool Length:

56.00

Trilobite Testing, Inc.

Ref. No: 64605



**FLUID SUMMARY** 

deg API

26000 ppm

Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1

Job Ticket: 64605

DST#: 3

ATTN: Ryan Seib

Test Start: 2019.02.16 @ 18:28:00

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity:

54.00 sec/qt

Water Loss: Resistivity: 7.18 in³ ohm.m

Salinity: Filter Cake: 2000.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

bbl

ft

psig

#### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
121.00	WM w / Oil Spots - 40%w - 60%m	0.600

Total Length:

121.00 ft

Total Volume:

0.600 bbl

Num Fluid Samples: 0

Num Gas Bombs:

0

Laboratory Name:

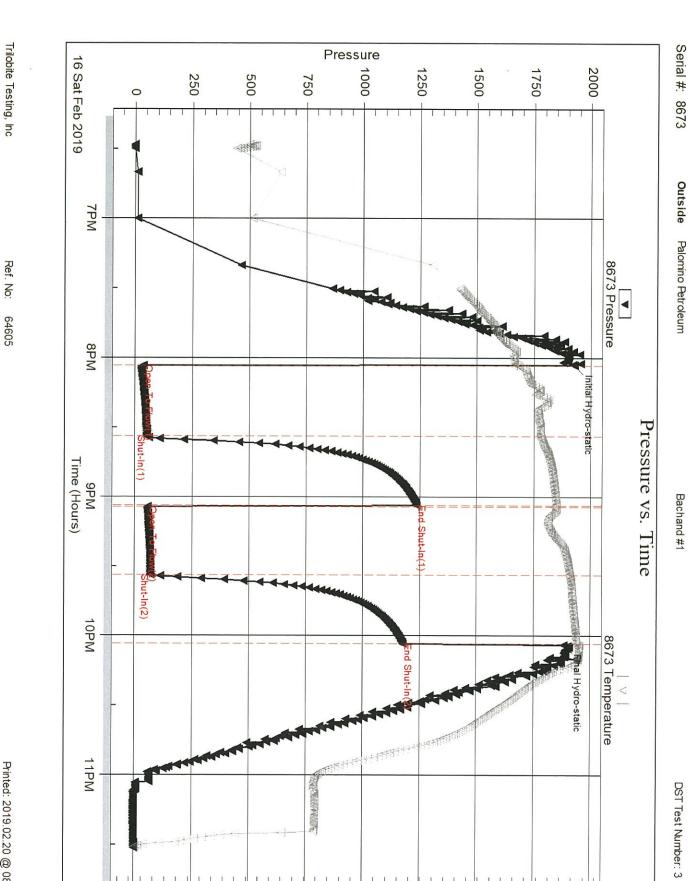
Laboratory Location:

Recovery Comments:

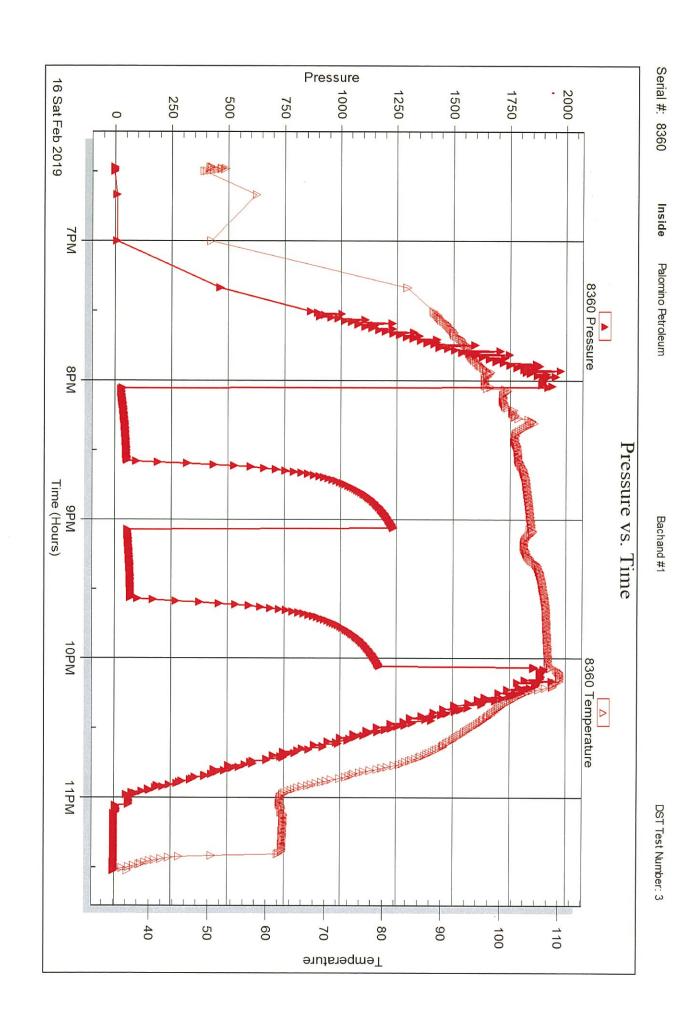
Serial #:

Trilobite Testing, Inc

Ref. No: 64605



Temperature



Trilobite Testing, Inc

Ref. No: 64605



Prepared For: Palomino Petroleum

4924 SE 84th St. Newton KS 67114

ATTN: Ryan Seib

#### Bachand #1

#### 22-10S-29W Sheridan, KS

Start Date: 2019.02.17 @ 10:39:00 End Date: 2019.02.17 @ 16:57:30

Job Ticket #: 64606 DST #: 4

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum

22-10S-29W Sheridan, KS Bachand #1

4924 SE 84th St. New ton KS 67114

Job Ticket: 64606

DST#: 4

ATTN: Ryan Seib

Test Start: 2019.02.17 @ 10:39:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 12:57:00

Time Test Ended: 16:57:30

Formation:

LKC "G-I"

Deviated:

No

Whipstock:

ft (KB)

Conventional Bottom Hole (Initial) Test Type:

Tester:

Royal Fisher

Unit No:

77

Interval:

4007.00 ft (KB) To 7100.00 ft (KB) (TVD)

Total Depth:

4100.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Reference Elevations:

2810.00 ft (KB)

KB to GR/CF:

2805.00 ft (CF) 5.00 ft

Serial #: 8673

Inside

Press@RunDepth:

154.47 psig @ 2019.02.17

4008.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

10:39:05

End Date: End Time:

2019.02.17 16:57:29

Last Calib.:

2019.02.17

Time On Btm: Time Off Btm:

2019.02.17 @ 12:56:30 2019.02.17 @ 15:01:30

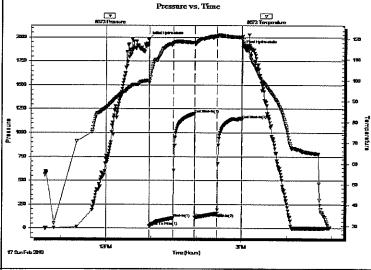
Trilobite Testing, Inc

TEST COMMENT: 30 - IFP - Surface blow built to bottom of the bucket at the end of the open

30 - ISI - No Return

30 - FFP - Surface blow built to 5"

30 - FSI - No Return



PRESSURE SUMMARY					
Time	Pressure	Temp	Annotation		
(Min.)	(psig)	(deg F)			
0	1981.92	99.89	Initial Hydro-static		
1	20.79	98.86	Open To Flow (1)		
33	106.57	118.06	Shut-In(1)		
61	1200.93	118.27	End Shut-In(1)		
62	109.21	117.86	Open To Flow (2)		
91	154.47	121.46	Shut-In(2)		
125	1140.33	120.85	End Shut-in(2)		
125	1892.90	121.22	Final Hydro-static		
			·		
	(Min.) 0 1 33 61 62 91 125	Time (Min.) Pressure (psig) 0 1981.92 1 20.79 33 106.57 61 1200.93 62 109.21 91 154.47 125 1140.33	Time (Min.) (psig) (deg F) 0 1981.92 99.89 1 20.79 98.86 33 106.57 118.06 61 1200.93 118.27 62 109.21 117.86 91 154.47 121.46 125 1140.33 120.85		

#### Recovery

Description	Volume (bbl)
OSMW - Oil Spots - 10%m - 90%w	1.39

Gas Nates					
		1			
Choke (inches)	Pressure (neig)	Car Rato (Mattel)			

Printed: 2019.02.20 @ 08:21:26

Ref. No: 64606



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64606

DST#: 4

ATTN: Ryan Seib

Test Start: 2019.02.17 @ 10:39:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 12:57:00

Time Test Ended: 16:57:30

Formation:

LKC "G-I"

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Royal Fisher

Tester: Unit No:

77

Interval:

4007.00 ft (KB) To 7100.00 ft (KB) (TVD)

Reference Elevations:

2810.00 ft (KB)

Total Depth:

4100.00 ft (KB) (TVD)

2805.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

5.00 ft

Serial #: 8360 Press@RunDepth: Inside

psig @

4008.00 ft (KB)

Capacity: 2019.02.17 Last Calib .: 8000.00 psig

2019.02.17

Start Date:

2019.02.17

End Date:

16:57:29

Time On Btm:

Start Time:

10:39:05

End Time:

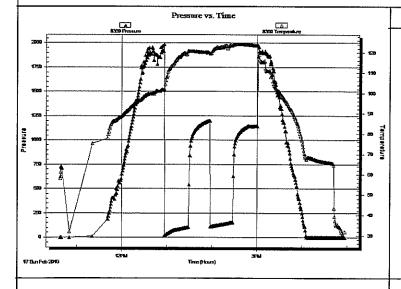
Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built to bottom of the bucket at the end of the open

30 - ISI - No Return

30 - FFP - Surface blow built to 5"

30 - FSI - No Return



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

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)	
198.00	OSMW - Oil Spots - 10%m - 90%w	1.39	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 64606



**TOOL DIAGRAM** 

Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64606

DST#: 4

ATTN: Ryan Seib

Test Start: 2019.02.17 @ 10:39:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 3872.03 ft Diameter:

Length:

0.00 ft Diameter: 120.02 ft Diameter:

3.25 inches Volume: 0.00 inches Volume: 2.25 inches Volume:

Total Volume:

39.73 bbl 0.00 bbl 0.59 bbl

40.32 bbl

Tool Weight:

2500.00 lb

Weight to Pull Loose: 80000.00 lb

Weight set on Packer: 25000.00 lb

Tool Chased

0.00 ft

String Weight: Initial 60000.00 lb

Final 61000.00 lb

Drill Pipe Above KB:

13.05 ft 4007.00 ft

Depth to Top Packer: Depth to Bottom Packer:

ft 93.00 ft

2

Interval between Packers: 121.00 ft

Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00	····		3984.00		
Hydraulic tool	5.00			3989.00		
Jars	5.00			3994.00		
Safety Joint	3.00			3997.00		
Packer	5.00			4002.00	28.00	Bottom Of Top Packer
Packer	5.00			4007.00		
Stubb	1.00			4008.00		
Recorder	0.00	8360	Inside	4008.00		
Recorder	0.00	8673	Inside	4008.00		
Perforations	24.00		Outside	4032.00		
Change Over Sub	1.00		Outside	4033.00		
Drill Pipe	63.00			4096.00		
Change Over Sub	1.00			4097.00		
Bullnose	3.00			4100.00	93.00	Bottom Packers & Anchor

Total Tool Length:

121.00

Trilobite Testing, Inc.

Ref. No: 64606



**FLUID SUMMARY** 

Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114

ATTN: Ryan Seib

Bachand #1

Job Ticket: 64606

DST#: 4

Test Start: 2019.02.17 @ 10:39:00

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: 50.00 sec/qt

Water Loss: 7.19 in<sup>3</sup> Resistivity:

Salinity: Filter Cake:

Viscosity:

ohm.m 3000.00 ppm

1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Pressure:

ft bbl

60000 ppm

deg API

Gas Cushion Type:

psig

## **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
198.00	OSMW - Oil Spots - 10%m - 90%w	1.390

Total Length:

198.00 ft

Total Volume:

1.390 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

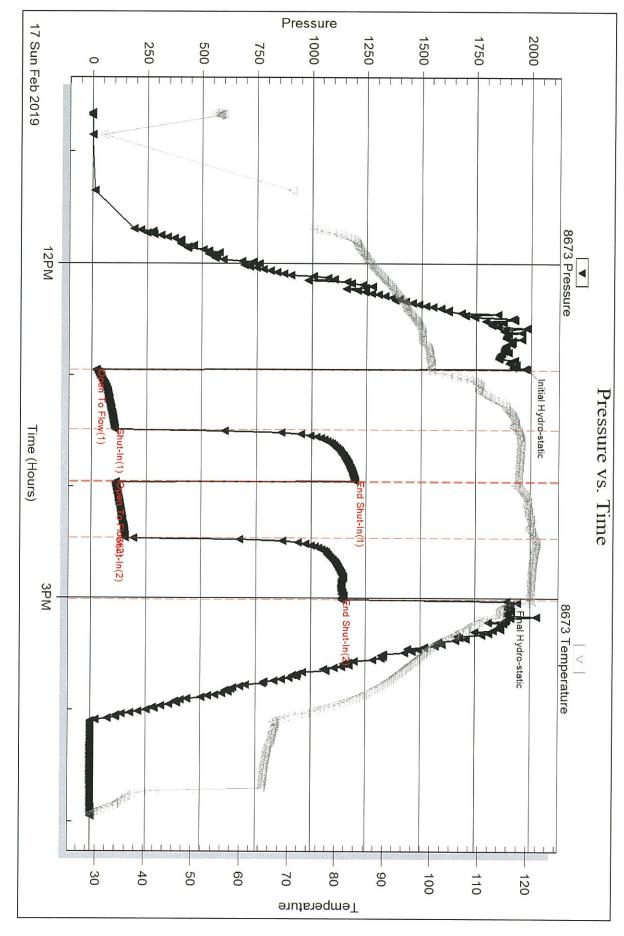
Laboratory Location:

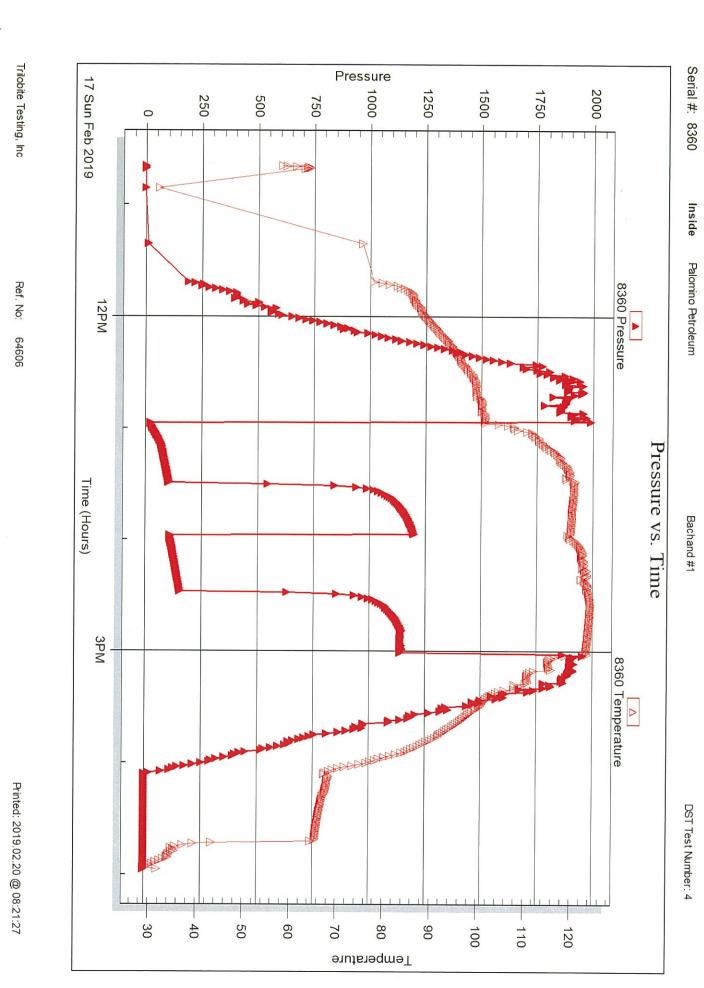
Recovery Comments:

Serial #: 8673

Inside

Palomino Petroleum







Prepared For: Palomino Petroleum

4924 SE 84th St. Newton KS 67114

ATTN: Ryan Seib

### Bachand #1

## 22-10S-29W Sheridan, KS

Start Date: 2019.02.18 @ 03:35:00 End Date: 2019.02.18 @ 09:18:15 Job Ticket #: 64607 DST #: 5

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



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64607

DST#: 5

ATTN: Ryan Seib

Test Start: 2019.02.18 @ 03:35:00

### **GENERAL INFORMATION:**

Formation:

LKC "K-L"

Deviated:

No

Wnipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 05:32:00

Tester: Unit No: Royal Fisher

Time Test Ended: 09:18:15

77

2810.00 ft (KB)

Interval: Total Depth: 4118.00 ft (KB) To 4185.00 ft (KB) (TVD) 4185.00 ft (KB) (TVD)

Reference Elevations:

2805.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

20.55 psig @

KB to GR/CF:

5.00 ft

Serial #: 8673 Press@RunDepth: Outside

4119.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time: 2019.02.18 03:35:05

End Date: End Time: 2019.02.18 09:18:14 Last Calib.: Time On Btm:

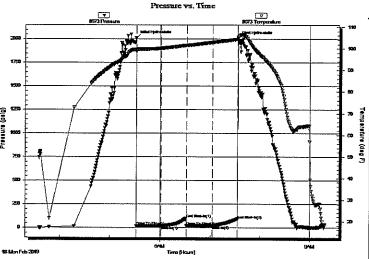
2019.02.18

Time Off Btm:

2019.02.18 @ 05:31:45 2019.02.18 @ 07:33:30

TEST COMMENT: 30 - IFP - Surface blow built up to ! 1/4"

30 - ISI - No Return 30 - FFP - No Surface blow 30 - FSI - No Return



Р	RESSUR	RE SUMMARY
Pressure	Temp	Annotation

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2014.55	99.62	Initial Hydro-static
	1	16.96	98.68	Open To Flow (1)
	30	18.91	100.12	Shut-ln(1)
	60	100.04	101.49	End Shut-In(1)
	61	19.03	101.49	Open To Flow (2)
	91	20.55	102.87	Shut-In(2)
ı	122	88.85	104.27	End Shut-In(2)
	122	2007.17	105.01	Final Hydro-static
l				
l				

#### Recovery

Length (ft)	Description	Volume (bbl)	
5.00	Mud - 100%m	0.02	

#### Gas Rates

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

Trilobite Testing, Inc

Ref. No: 64607



Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1

Job Ticket: 64607

DST#: 5

ATTN: Ryan Seib

Test Start: 2019.02.18 @ 03:35:00

#### GENERAL INFORMATION:

Time Tool Opened: 05:32:00

Time Test Ended: 09:18:15

Formation:

LKC "K - L"

Deviated:

Interval:

Total Depth:

Hole Diameter:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Royal Fisher

Unit No:

77

2810.00 ft (KB)

Reference Elevations:

2805.00 ft (CF)

4185.00 ft (KB) (TVD) 7.88 inches Hole Condition: Fair

4118.00 ft (KB) To 4185.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Serial #: 8360

Inside

Press@RunDepth:

psig @ 2019.02.18

4119.00 ft (KB)

End Date:

Capacity: 2019.02.18 Last Calib.: 8000.00 psig

Start Date: Start Time:

03:35:05

End Time:

(Min.

Time On Btm:

2019.02.18

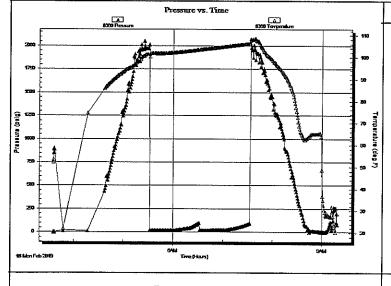
09:18:29

Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built up to ! 1/4"

30 - ISI - No Return

30 - FFP - No Surface blow 30 - FSI - No Return



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

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100%m	0.02

Gas Rates

Choke (inches)

Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 64607



**TOOL DIAGRAM** 

Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1 Job Ticket: 64607

DST#: 5

ATTN: Ryan Seib

Test Start: 2019.02.18 @ 03:35:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3997.98 ft Diameter:

0.00 ft Diameter:

3.25 inches Volume: 0.00 inches Volume: 2.25 inches Volume:

41.02 bbl 0.00 bbl 0.59 bbl

Tool Weight: Weight set on Packer: 25000.00 lb

2500.00 lb

Drill Collar: Length:

120.02 ft Diameter: 28.00 ft

Total Volume: 41.61 bbl Weight to Pull Loose: 72000.00 lb Tool Chased

0.00 ft

Drill Pipe Above KB: Depth to Top Packer:

4118.00 ft

String Weight: Initial 70000.00 lb

Depth to Bottom Packer: Interval between Packers:

Number of Packers:

ft 67.00 ft

70000.00 lb Final

Tool Length:

95.00 ft

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4095.00		
Hydraulic tool	5.00			4100.00		
Jars	5.00			4105.00		
Safety Joint	3.00			4108.00		
Packer	5.00			4113.00	28.00	Bottom Of Top Packer
Packer	5.00			4118.00		
Stubb	1.00			4119.00		
Recorder	0.00	8360	Inside	4119.00		
Recorder	0.00	8673	Outside	4119.00		
Perforations	29.00		Outside	4148.00		
Change Over Sub	1.00		Outside	4149.00		
Drill Pipe	32.00			4181.00		
Change Over Sub	1.00			4182.00		
Bullnose	3.00			4185.00	67.00	Bottom Packers & Anchor

Total Tool Length:

95.00

Trilobite Testing, Inc.

Ref. No: 64607



**FLUID SUMMARY** 

Palomino Petroleum

22-10S-29W Sheridan, KS

4924 SE 84th St. New ton KS 67114 Bachand #1

Job Ticket: 64607

DST#: 5

ATTN: Ryan Seib

Test Start: 2019.02.18 @ 03:35:00

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal

Viscosity: 50.00 sec/qt Water Loss: 7.19 in<sup>3</sup>

Resistivity: Salinity: Filter Cake:

3000.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

Printed: 2019.02.20 @ 08:11:25

deg API

ppm

ohm.m

psig

fţ

bbl

## **Recovery Information**

### Recovery Table

Length ft	Description	Volume bbl	
5.00	Mud - 100%m	0.025	

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

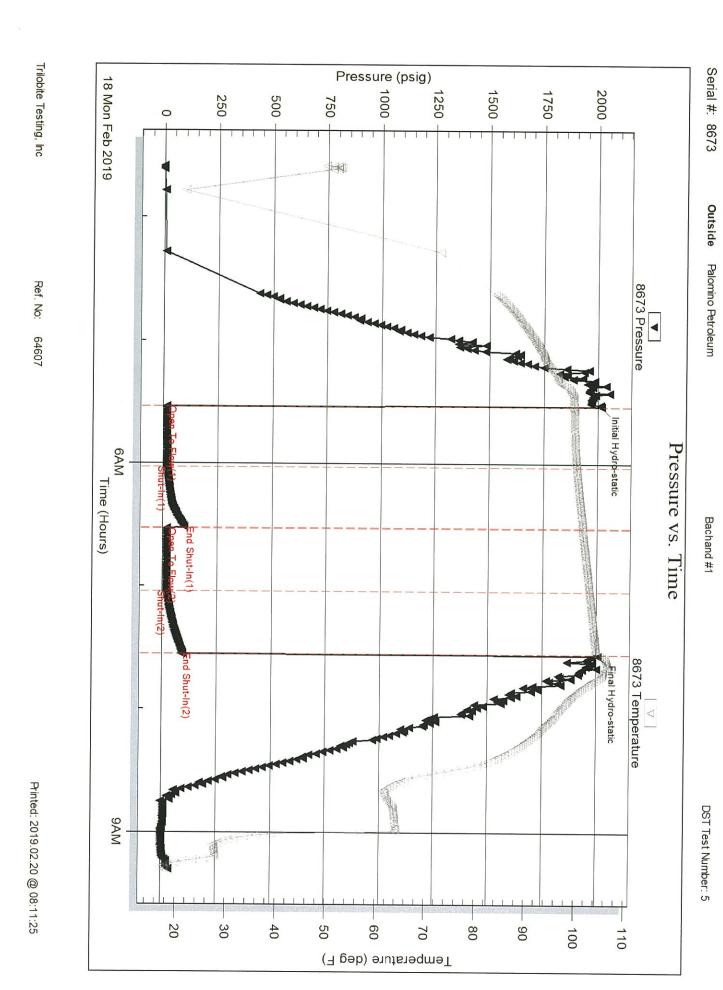
Num Gas Bombs:

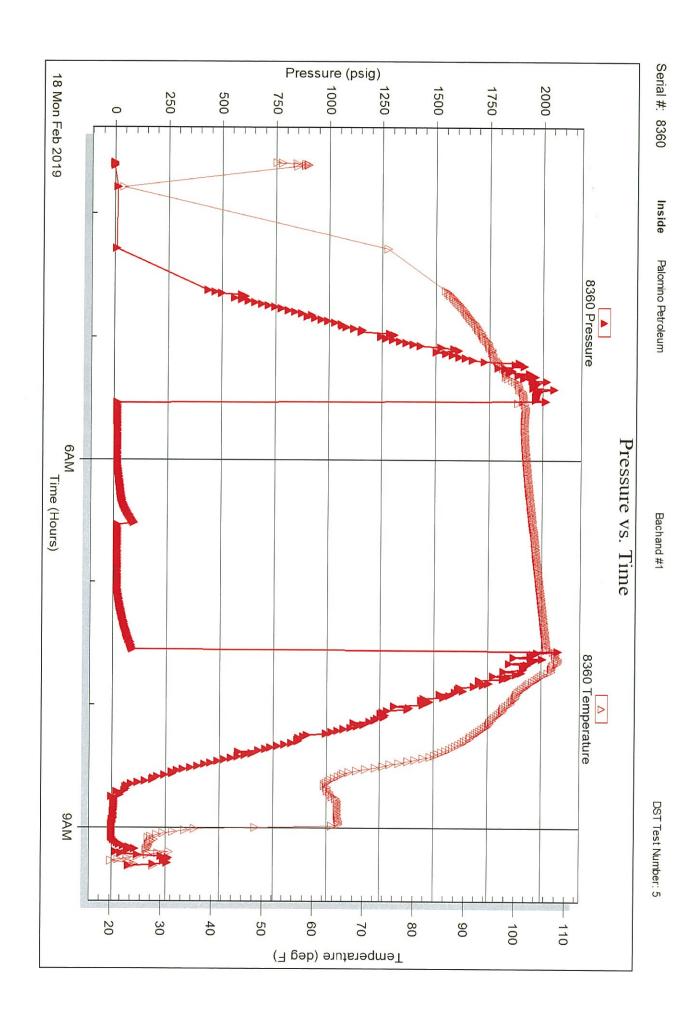
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Trilobite Testing, Inc

Ref. No: 64607



# **Test Ticket**

NO. 64603

ESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

			<del></del>		
Well Name & No. Bachard #	<del>F</del> ]	Test No	1	Date 2-15-1	9
Company Palamina Detrate	'IAM	Elevation 2	810	KB 2805	GL
Address 4924 SE 84th St	nowton Ks. 107/14	4			
Co. Rep/Geo. Byon Seib		Rig V/W	#10		ú
Location: Sec. 22 Twp	10S Rge. 29 W	_co. Sheric	1	State K	<u> </u>
Interval Tested 3875 - 3920 '	Zane Tested	aronto		·	
Anchor Length 45	Drill Pipe Run	3745.5	2 <u>′                                    </u>	ud Wt 8, 7	
Top Packer Depth 3870	Drill Collars Run	120.02		s 67	
Bottom Packer Depth 3875	Wt. Pipe Run		141	10.B	
Total Depth 3920	Chlorides 19	7()	n System LC	м_8 <del>-11</del>	
Blow Description IFP-Surfac		20 ppn	<b>,</b>		
ISI-No Re		ι			
FFP-No Sur					
FOT NO D	ACD.				
Rec 5' Feet of COM		%gas≲∫O	%oil	%water /O	) %mud
Rec Feet of		%gas_	%oll	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total BHT _	OOF Gravity	API RW@			
(A) Initial Hydrostatic 18/e	Test 1200			ion 10:00am	pp:::
(B) First Initial Flow <u>lo</u>	\ Jars250	٠.		12:17am	
(C) First Final Flow 18	Safety Joint 7			3:00 pm	·····
(D) Initial Shut-In_308		4	T-Pulled	SCOpm	
(E) Second Initial Flow 19	Hourly Standby	2 lors	T-Out 6	143pm	
(F) Second Final Flow	Mileage 114 (			Jost Circu	ifdu
(G) Final Shut-In 238	Sampler		"office	-Short fr	ip. Ha
(H) Final Hydrostatic 17/6/0	D Straddle			ld clerk	- ,
			☐ Ruined	Shale Packer	
Initial Open	Shale Packer			Packer	
Initial Shut-In_30	Extra Packer			opies	· · · · · · · · · · · · · · · · · · ·
Final Flow 30	—			0	
Final Shut-In 30	Day Standby			639 .	<del></del>
	Accessibility		MP/DST D	Disc't	
	Sub Total 1639	<u> </u>	11xn	1	



(D) Initial Shut-In

Final Shut-In

THEODILE .	162	LICKEL
#10 ESTING INC.  1515 Commerce Parkway • Hays, Kansas 67601	NO.	64604
Well Name & No. Roch para #1  company Palomino Petrokum	Test No	Date 2-16-19 KB 2805 GL
Address 4924 SE 844 St. Newton 45 6	7114	
Co. Rep / Geo. KNON Seib	_Rig_WW#10_	
1 'ላኅ ነውድ በርኒ ነ	o. Sheridan	state_KS
Interval Tested 8874 3934-3980 Zone Tested Lon	reina B+C	
Anchor Length 40° Drill Pipe Run	201000 3808.98	Mud Wt. <u>8.7</u>
Top Packer Depth 399' Drill Collars Run 16	10.02 '	VIS 107
Bottom Packer Depth 3934 Wt. Pipe Run C	<u> </u>	WL/018
Total Depth 3980 Chlorides 500	ppm System	LCM 8#
Blow Description IFP-Suctore blow built wo to	3411	
ISI - Had a faint ketur		
FFP-Surface blow built up to	11/4"	
EST-No hotern		
Rec 125' Feet of OSWM	%gas S(0+5 %oil	50 %water 50 %mud
Rec Feet of	%gas %oil	%water %mud
Rec Feet of	%gas %oil	%water %mud
Rec Feet of	%gas %oil	%water %mud
RecFeet of	%gas %oil	%water %mud
Rec Total 125 BHT 109°F Gravity API	RW 3000 19 .	
(A) Initial Hydrostatic 1902 Test 1200	•	ocation 3:20cm
(B) First Initial Flow 250		ed 4100 am
(C) First Final Flow 4/0 Safety Joint 75		5/33m

T-Out 10:260m (E) Second Initial Flow ☐ Hourly Standby Comments (F) Second Final Flow Mileage (G) Final Shut-In Sampler\_ (H) Final Hydrostatic ☐ Straddle Ruined Shale Packer\_ ☐ Shale Packer Rulned Packer Initial Open Or Extra Packer ☐ Extra Copies Initial Shut-In C Extra Recorder Sub Total Final Flow ☐ Day Standby 1639

Circ Sub

Approved By

Tribbits Testing Inc. shall not be liable for damaged of any kind of the property or phrsonnel of the one for whom a test is made, or for any long suffered or sustained, directly, through the use of its equipment, or its statements or opinion concerning the results of any test, topic loss or damaged in the hole shall be paid for at cost by the party for whom the test is made.

☐ Accessibility

Sub Total 1639

Total

Takkan Ario (2)

MP/DST Disc't



Final Flow

Final Shut-In

# **Test Ticket**

1515 Commerce Parkwa	ay • Hays, Kansas 67601	NO.	64605	
Well Name & No. Bechand #1 Company Paloming Petrolew Address 4924 SE 844-84	Mewho bs 107114	281O	Date 2-16- KB 2805	<u>G</u>
Co. Rep / Geo. Kypan Seab  Location: Sec. 22 Twp 10S	Rig W Rgs. 29W co. She	ridan	State K.S	<u> </u>
Interval Tested 3975 - 4003  Anchor Length 28  Top Packer Depth 3970  Bottom Packer Depth 3975  Total Depth 4003  Blow Description TFP Succe Hou	1 11 1 02/11	- V	nud Wi 9 Hs _ 64 VI 7, 2 CM _ 4# CM _ 4# CM _ 600 \ 60	2'2"
FFP Surface by FST - No Return Rec Feet of OSWM Rec Feet of	%gas S	pris %oil	40 %water 10	<b>√</b> 0 %mud
Rec   Feet of	%gas %gas	%oil %oil	%water %water	%mud %mud
Rec Feet of	%gas %gas 	%ail %ail	%water	%mud %mud
A) Initial Hydrostatic 1920  B) First Initial Flow 39  C) First Final Flow 54  D) Initial Shut-In 1235	Test 1300  Jars 250  Safety Joint 75	T-On Loca T-Started T-Open	ation <u>5:40 pr</u> 12:28 pm 8:03 cm	
E) Second Initial Flow 57  F) Second Final Flow 70  G) Final Shut-In 170	Circ Sub  Hourly Standby  Mileage 114 R/T 114	T-Pulled	10.03pm 1:32pm 5	
H) Final Hydrostatic 1883	Sampler  Straddle  Shale Packer  Extra Packer	— O Ruine	d Shale Packer	
nitial Shut-in	Extra Recorder	— U Extra	<b>Coples</b>	

CONTRACTOR OF THE

Total\_

1739

MP/DST Disc't

☐ Day Standby \_

Accessibility



**Test Ticket** 

64606

1515 Commerce Parkway - Hays, Kansas 67601

Manual Name & No Book and #		Tont Ma	4		7-19
Well Name & No. Bachand		Test No	1810	DateKBKB	
Company Poloming tetraleum  Address 4924 SE 84th St N	مكل ممان م	Elevation	<b>WIO</b>	- KR QOU	GL
	euton hs	(0/114 Rig \\1\	244 10		
Co. Rep/Geo. Kypn Seit	_ ^Q1\		0 .		1 .
Location: Sec. 22 Twp 105	Rge. 29 W	_co. <u>Sheci</u>		State	<u> </u>
Interval Tested 4607 - 4160	Zone Tested	sasiac-"	<u>G-I"</u>	***************************************	
Anchor Length 93	_ Drill Pipe Run _	3872,00	3	Mud Wt. 9.1	<u> </u>
Top Packer Depth 4632	Drill Collars Run	120.02	<del>* ***********************************</del>	VIs <u>50</u>	
Bottom Packer Depth 4037	Wt. Pipe Run			WL 7.2	
Total Depth 4100	_ Chlorides _ 3	200 pp	m System	LCM 4#	
Blow Description IFP - Surface 161	of Hinde	bottom o	4 the	bucket 6	24/10-1800
ISI-no Keturn		//			
FFP- Surface bla.	obuilt to	5-11			
FST-No Keturn					
Rec 1981 Feet of OSMW		%gas <b>S</b> ρ	1 ts %oil	90 %water	₿ %mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oll	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total 198 BHT 1219F	Gravity	API RW <u>292</u>	@_ <u>27</u> °F	Chlorides 60,	<u> </u>
(A) Initial Hydrostatic 1982	Test 1300		T-On Le	ocation 1012C	lan
(B) First Initial Flow 2	Jars 250	<del></del>	<del></del>	10:39 ar	Λ
(C) First Final Flow 107	Safety Joint 75	<u> </u>		12:57pm	
(D) Initial Shut-In 120	☐ Circ Sub			di57pm	
(E) Second Initial Flow 109	Hourly Standby			4157pm	<del></del>
(F) Second Final Flow 159	Mileage 114 R	VT 114	Comme	ents	
(G) Final Shut-In 1140	☐ Sampler				· · · · · · · · · · · · · · · · · · ·
(H) Final Hydrostatic 1893	☐ Straddle	" -		леd Shale Packer_	
	☐ Shale Packer			ned Packer	
Initial Open 30	☐ Extra Packer		<b>—</b> [140]	ra Copies	
Initial Shut-In	☐ Extra Recorder			0	
Final Flow 30	Day Standby			1739	
Final Shut-In 30	Accessibility			T Disc't	
	Sub Total 1739		1 1	· · ·	
Approved By	Our	Representative <b>2</b>	rude E	Ship	
Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or equipment, or its statements or opinion concerning the results of any test, tools is	narrannal of the anatomic terms	lant la mada, andan ancida.	<i>A.</i>	red, directly or Indirectly, th	rough the use of its



# **Test Ticket**

NO. 64607

RILOBITE

ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Well Name & No. Bochand#1		Test No	ح	_Date _2-/	8-19
company Palamino Petro leur		Elevation_2	810		GL
	Newton hs				
Co. Rep/Geo. Ayan Seib		Rig WW	#10		
Location: Sec. 22 Twp 105	Rge. 29W	_co. <u>Sher</u>	<b>. 1</b>	State	KS
Interval Tested 4/18' - 4/85'	Zone Tested L	ansina -	"K-L"		
Anchor Length 67	Drill Pipe Run	3997.92		Mud Wt. 9,	
Top Packer Depth 4113	Drill Collars Run	120,02	***************************************	Vis <u>50</u>	
Bottom Packer Depth 4118	Wt. Pipe Run	0		wL <u>7,2</u>	
Total Depth 4185	Chlorides <u>30</u>	<u>30</u> ppn	System	LCM U#	
Blow Description IPP Surface N	an built up	to 14	·		
IST-No Return					
FFY-No Surface	_blow				
FST- We between					
Rec 5' Feet of Mud		%gas	%oil	%water_	100 %mud
RecFeet of		%gas	%oii	%water	%mud
Rec Feet of		%gas	‰il	%water	%mud
Rec Feet of		%gas	%oll	%water	%mud
RecFeet of	<del></del>	%gas	%oil	%water	%mud
Rec Total5 / BHT1040	Gravity	API RW@	°F	Chlorides	ppm
(A) Initial Hydrostatic 2015	Test 1300		T-On Lo	cation 3120	
(B) First Initial Flow	Jars 250	···	•	d <u>3135am</u>	
(C) First Final Flow	Safety Joint $75$	5	T-Open	5:3/am	
(D) Initial Shut-In	Circ Sub			7/3/am	
(E) Second Initial Flow	. D Hourly Standby			9118	1 1 11
(F) Second Final Flow	Mileage 114	R/T 114+1	<i>-</i>	ints Indoled	4001 (300)
(G) Final Shut-In	☐ Sampler	· .	2.10 2-10	pm to 10	why.
(H) Final Hydrostatic 2007	☐ Straddle			and Shale Dealer	
	☐ Shale Packer			ned Shale Packer_ ned Packer	-
Initial Open 30	Extra Packer		- T 110H		
Initial Shut-In	Extra Recorder			a Copies	
Final Flow 30	Day Standby			1853	-
Final Shut-In 30	Accessibility			T Disc't	
	Sub Total 1853		س. د	·	,
Approved By	Our l	Representative <b>1</b>	uss of	ME	
frientita Testing for West not be liable for demand of one bind of the arrange			<i></i>	J. /	

Tribobite Testing Inc. Shall not be liable for damaged of any ting 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.

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