

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	STENZEL HEIRS 1
Doc ID	1461272

Tops

Name	Top	Datum
Anhy.	1566	(+ 737)
Base Anhy.	1606	(+ 697)
Heebner	3676	(- 1373)
Lansing	3719	(- 1416)
BKC	4040	(- 1737)
Marmaton	4060	(- 1757)
Pawnee	4139	(- 1836)
Ft. Scott	4219	(- 1916)
Cherokee Sh.	4240	(- 1937)
Miss.	4322	(- 2019)
LTD	4453	(- 2150)

GLOBAL OIL FIELD SERVICES, LLC
 24 S. Lincoln
 RUSSELL, KS 67665

RECEIVED
FEB 19 2019

Invoice

Date	Invoice #
2/14/2019	0013383

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

P.O. No.	Terms	Project
<i>Heirs</i> STENSEL HARRI..	Due on receipt	

Quantity	Description	Rate	Amount
250	60/40 POZMIX CEMENT	13.75	3,437.50
9	BENTONITE GEL	30.00	270.00
62.5	FLO-SEAL	2.00	125.00
259	HANDLING	1.90	492.10
	BULK MILEAGE	1,165.50	1,165.50
1	TRI-PLEX PUMP CHARGE FOR PLUG	850.00	850.00
45	LMV- ONE WAY	2.75	123.75
45	HEAVY EQUIPMENT. ONE WAY	6.50	292.50
1	DRY HOLE PLUG	62.50	62.50
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		0.00
	NESS CO SALES TAX	7.50%	0.00

Thank you for your business.		Total	\$6,818.85
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Phone #	Fax #
785-445-3525	785-445-3526

GLOBAL OIL FIELD SERVICES, LLC

0013389

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>2-11-19</u>	SEC. <u>20</u>	TWP. <u>19N</u>	RANGE <u>24W</u>	CALLED OUT	ON LOCATION <u>11:15 am</u>	JOB START	JOB FINISH <u>5:00 PM</u>
LEASE <u>Stensel</u>	WELL# <u>1</u>	LOCATION <u>West of Ness City to NRD 1 1/2 N West</u>			COUNTY <u>NESS</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR W.W. Drilling Rig #22

TYPE OF JOB Rotary Plug

HOLE SIZE 7 1/2 T.D. 9450'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS _____

DISPLACEMENT _____

OWNER Palomino Petroleum

CEMENT AMOUNT ORDERED 250gx 60/90 Por 9 1/2 Gal

4" per Flow Seal

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK # 107 CEMENTER Andy

BULK TRUCK # 173 HELPER Tony

BULK TRUCK # _____ DRIVER Sean

BULK TRUCK # _____ DRIVER _____

REMARKS:

1590' 505x

610' 805x

770' 505x

60' 205x

Pat 305x

Moose 205x

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Palomino Petroleum

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE Joe Lenzel

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

RECEIVED
FEB 11 2019

Invoice

Date	Invoice #
2/7/2019	0013358

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

P.O. No.	Terms	Project
STEAZEL HEIRS#...	Due on receipt	

Quantity	Description	Rate	Amount
150	60/40 POZMIX CEMENT	13.75	2,062.50
5	CALCIUM-CHLORIDE	80.00	400.00
3	BENTONITE GEL	30.00	90.00
158	HANDLING	1.90	300.20
	BULK MILEAGE	500.00	500.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	850.00	850.00
35	HEAVY EQUIPMENT. ONE WAY	6.50	227.50
35	LMV- ONE WAY	2.75	96.25
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		0.00
	BARTON CO SALES TAX	7.50%	0.00

Thank you for your business.

Total \$4,526.45

Phone #	Fax #
785-445-3525	785-445-3526

GLOBAL OIL FIELD SERVICES, LLC

0013358

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>2-1-19</u>	SEC. <u>20</u>	TWP. <u>15S</u>	RANGE <u>21W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>2:15pm</u>
LEASE <u>Stenzel</u>	WELL# <u>#1</u>	LOCATION <u>west of Ness City, to RD N 1/4 W</u>			COUNTY <u>Ness</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)			<u>West into</u>				

CONTRACTOR WW Drilling Rig # 22

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 4 1/2 DEPTH 224'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 25'

PERFS

DISPLACEMENT

EQUIPMENT

PUMP TRUCK # 417 CEMENTER Coverly

BULK TRUCK # 411 DRIVER Sean

OWNER Palomino Petroleum

CEMENT AMOUNT ORDERED 150 sx 60/40 30/100

2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Run 5' + set 5 1/2 casing + Ljt 4000-dic Rig
1 Broke circulation hooked to truck + pumped
150sx + displaced 12 1/4 hbls of #70 + shift IN

Cement Did Circulate to Surface

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

CHARGE TO: Palomino Petroleum

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

Global Oil Field Services, LLC
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

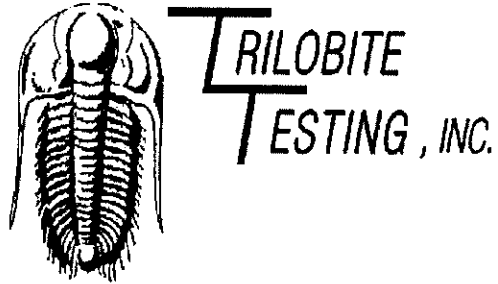
SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT

IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St.
Newton, KS 67114

ATTN: Andrew Stenzel

Stenzel Heirs #1

20-18s-24w Ness,KS

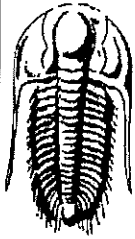
Start Date: 2019.02.06 @ 13:55:00

End Date: 2019.02.06 @ 23:36:15

Job Ticket #: 65184 DST #: 1

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

Printed: 2019.02.12 @ 16:35:58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65184

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.02.06 @ 13:55:00

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:33:30

Time Test Ended: 23:36:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **3706.00 ft (KB) To 3812.00 ft (KB) (TVD)**

Total Depth: 3812.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2303.00 ft (KB)

2293.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8522**

Inside

Press@RunDepth: 98.91 psig @ 3707.00 ft (KB)

Start Date: 2019.02.06

End Date:

2019.02.06

Start Time: 13:55:05

End Time:

23:36:15

Capacity:

8000.00 psig

Last Calib.:

2019.02.06

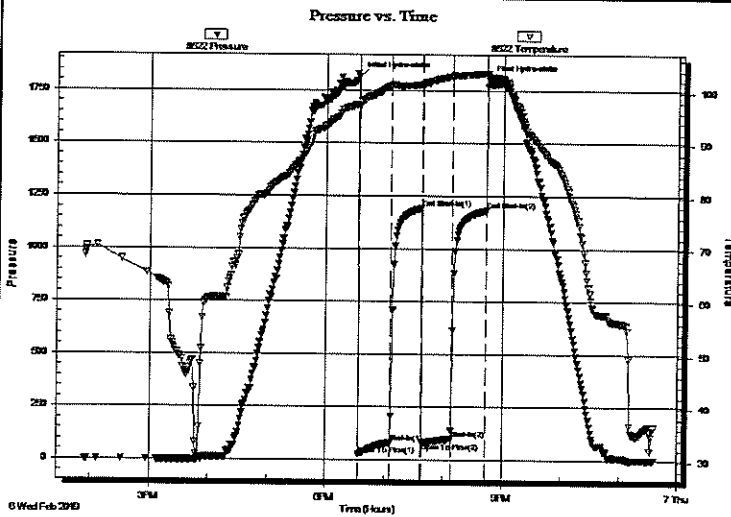
Time On Btm:

2019.02.06 @ 18:33:15

Time Off Btm:

2019.02.06 @ 20:44:45

TEST COMMENT: 30- IF: 7" blow.
30- ISI: No return.
30- FF: 4 1/2" blow.
30- FSI: No return.



PRESSURE SUMMARY

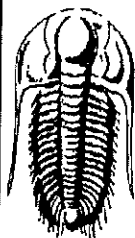
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1814.39	97.66	Initial Hydro-static
1	23.58	97.16	Open To Flow (1)
33	78.05	101.20	Shut-In(1)
65	1192.36	101.43	End Shut-In(1)
65	81.87	100.94	Open To Flow (2)
95	98.91	102.99	Shut-In(2)
130	1182.11	103.57	End Shut-In(2)
132	1800.25	103.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	w cm 15w 85m (Oil spots on top)	1.17

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness, KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65184 DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.02.06 @ 13:55:00

GENERAL INFORMATION:

Formation: LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:33:30

Time Test Ended: 23:36:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 3706.00 ft (KB) To 3812.00 ft (KB) (TVD)

Total Depth: 3812.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2303.00 ft (KB)

2293.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 3707.00 ft (KB)

Start Date: 2019.02.06

End Date:

2019.02.06

Capacity: 8000.00 psig

Last Calib.: 2019.02.06

Start Time: 13:55:05

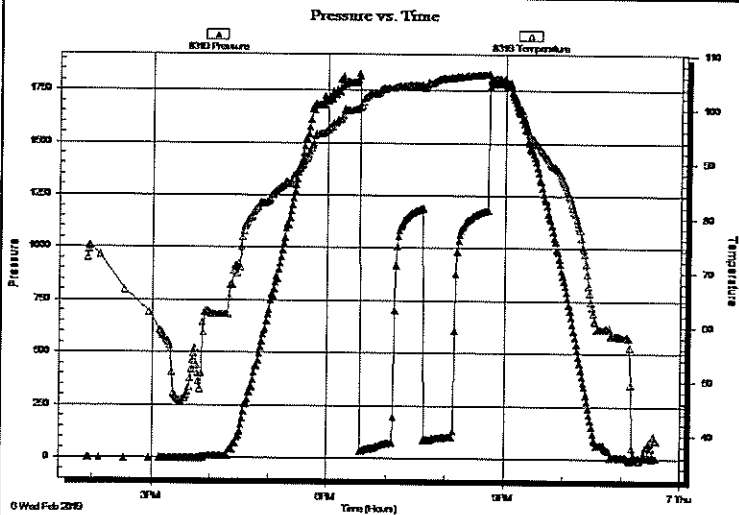
End Time:

23:36:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: 7" blow.
30- IS: No return.
30- FF: 4 1/2" blow.
30- FS: No return.



PRESSURE SUMMARY

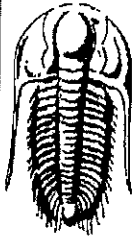
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
160.00	w cm 15w 85m (Oil spots on top)	1.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65184

DST#: 1

ATTN: Andrew Stenzel

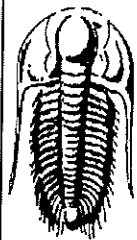
Test Start: 2019.02.06 @ 13:55:00

Tool Information

Drill Pipe:	Length: 3577.00 ft	Diameter: 3.80 inches	Volume: 50.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 50.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3706.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	106.00 ft			
Tool Length:	133.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3680.00	
Shut In Tool	5.00		Fluid	3685.00	
Hydraulic tool	5.00			3690.00	
Jars	5.00			3695.00	
Safety Joint	2.00			3697.00	
Packer	5.00		Inside	3702.00	27.00 Bottom Of Top Packer
Packer	4.00			3706.00	
Stubb	1.00			3707.00	
Recorder	0.00	8522	Inside	3707.00	
Recorder	0.00	8319	Outside	3707.00	
Perforations	7.00			3714.00	
Change Over Sub	1.00			3715.00	
Drill Pipe	93.00			3808.00	
Change Over Sub	1.00			3809.00	
Bullnose	3.00			3812.00	106.00 Bottom Packers & Anchor
Total Tool Length:		133.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65184

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.02.06 @ 13:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity:

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	w cm 15w 85m (Oil spots on top)	1.169

Total Length: 160.00 ft Total Volume: 1.169 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

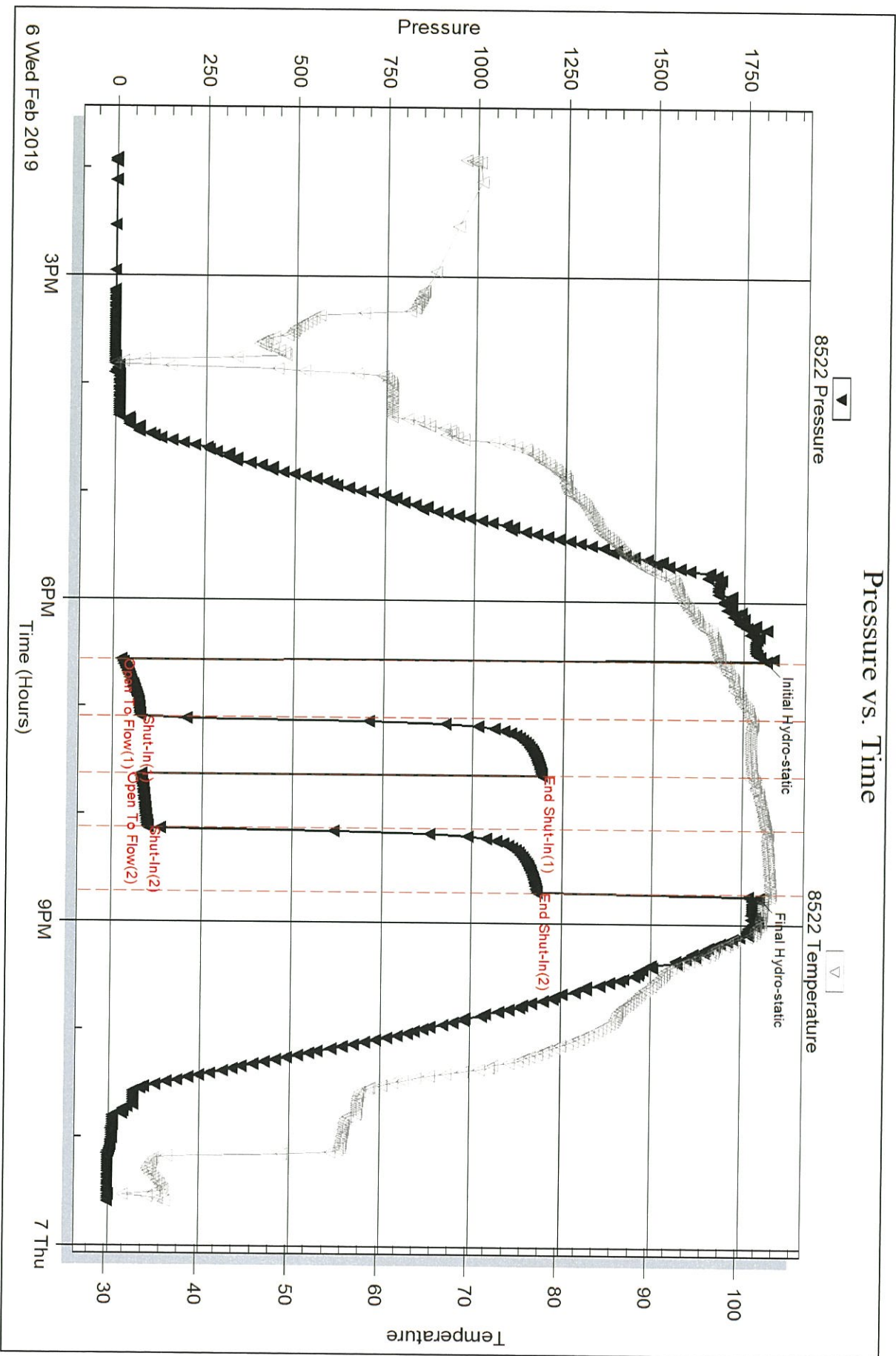
Serial #: 8522

Inside

Palomiro Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 1



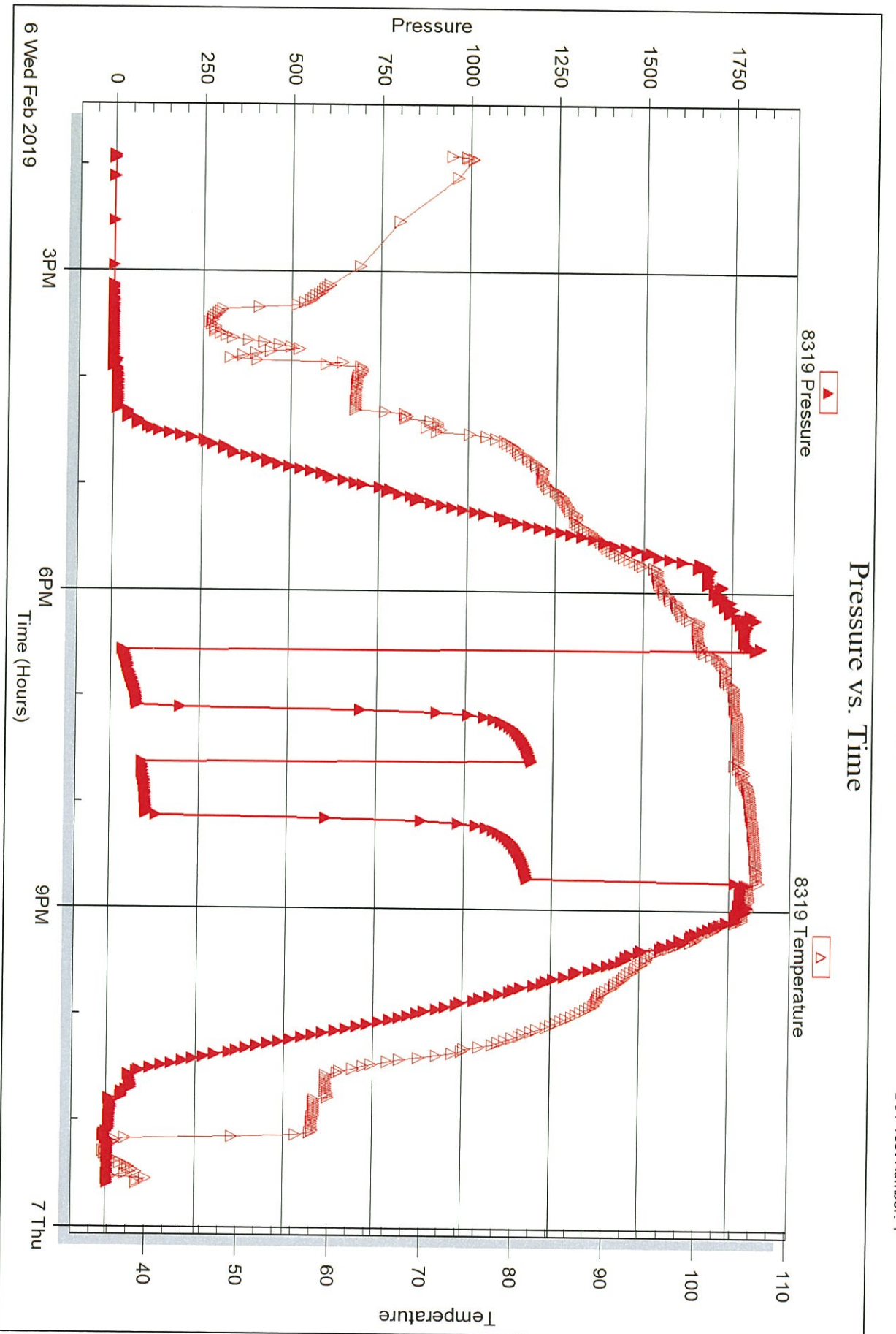
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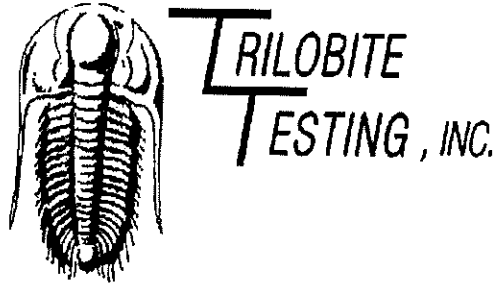
Outside

Palomino Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St.
Newton, KS 67114

ATTN: Andrew Stenzel

Stenzel Heirs #1

20-18s-24w Ness,KS

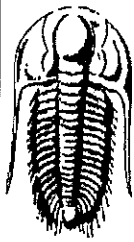
Start Date: 2019.02.08 @ 21:10:00

End Date: 2019.02.09 @ 06:00:15

Job Ticket #: 65185 DST #: 2

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

Printed: 2019.02.12 @ 16:35:36



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65185

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.02.08 @ 21:10:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:06:15

Time Test Ended: 06:00:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4321.00 ft (KB) To 4330.00 ft (KB) (TVD)

Total Depth: 4330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2303.00 ft (KB)

2293.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 28.09 psig @ 4322.00 ft (KB)

Start Date: 2019.02.08

End Date:

2019.02.09

Start Time: 21:10:05

End Time:

06:00:15

Capacity:

8000.00 psig

Last Calib.:

2019.02.09

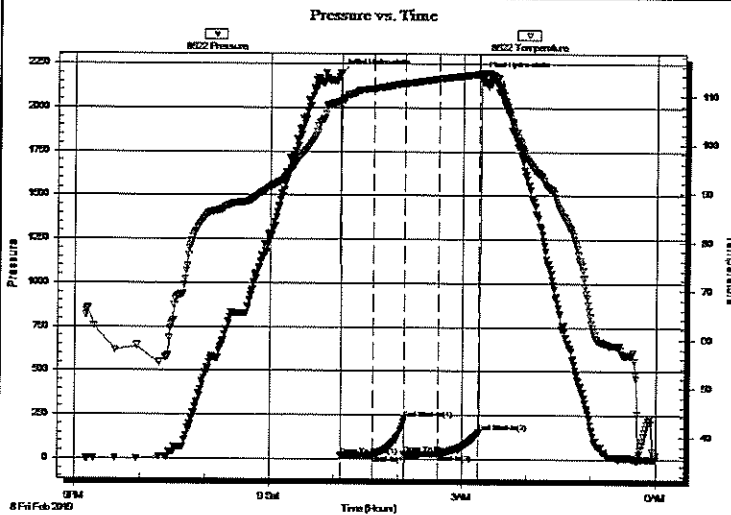
Time On Btm:

2019.02.09 @ 01:06:00

Time Off Btm:

2019.02.09 @ 03:16:45

TEST COMMENT: 30- IF: 1" blow.
30- IS: No return.
30- FF: Surface blow.
30- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.77	108.94	Initial Hydro-static
1	17.99	107.81	Open To Flow (1)
31	22.97	111.40	Shut-In(1)
60	226.70	112.61	End Shut-In(1)
60	24.84	112.32	Open To Flow (2)
91	28.09	113.45	Shut-In(2)
130	155.01	114.46	End Shut-In(2)
131	2179.88	114.75	Final Hydro-static

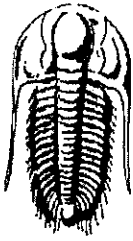
Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 2o 98m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness, KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65185

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.02.08 @ 21:10:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:06:15

Time Test Ended: 06:00:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4321.00 ft (KB) To 4330.00 ft (KB) (TVD)**

Total Depth: 4330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2303.00 ft (KB)

2293.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 4322.00 ft (KB)

Start Date: 2019.02.08

End Date:

2019.02.09

Start Time: 21:10:05

End Time:

06:00:15

Capacity:

8000.00 psig

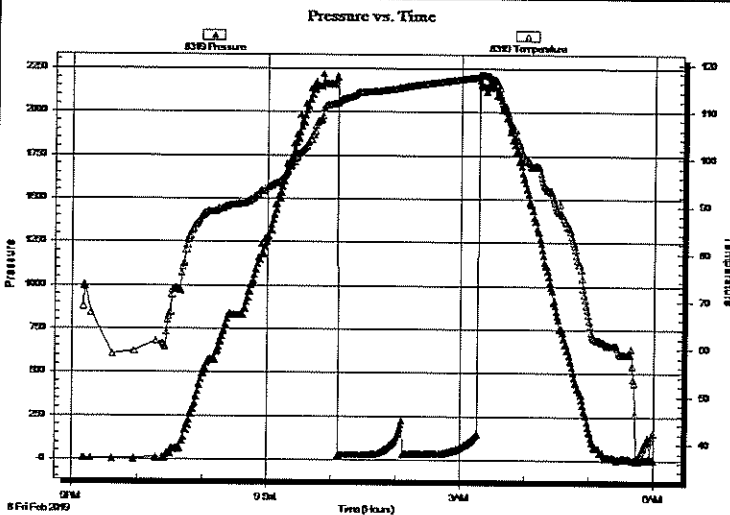
Last Calib.:

2019.02.09

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: 1" blow.
30- IS: No return.
30- FF: Surface blow.
30- FS: No return.



PRESSURE SUMMARY

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

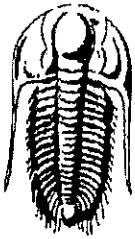
Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 2o 98m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65185

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.02.08 @ 21:10:00

Tool Information

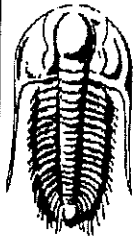
Drill Pipe:	Length: 4202.00 ft	Diameter: 3.80 inches	Volume: 58.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4321.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4295.00	
Shut In Tool	5.00		Fluid	4300.00	
Hydraulic tool	5.00			4305.00	
Jars	5.00			4310.00	
Safety Joint	2.00			4312.00	
Packer	5.00		Inside	4317.00	27.00 Bottom Of Top Packer
Packer	4.00			4321.00	
Stubb	1.00			4322.00	
Recorder	0.00	8522	Inside	4322.00	
Recorder	0.00	8319	Outside	4322.00	
Perforations	5.00			4327.00	
Bullnose	3.00			4330.00	9.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65185

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.02.08 @ 21:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 2o 98m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

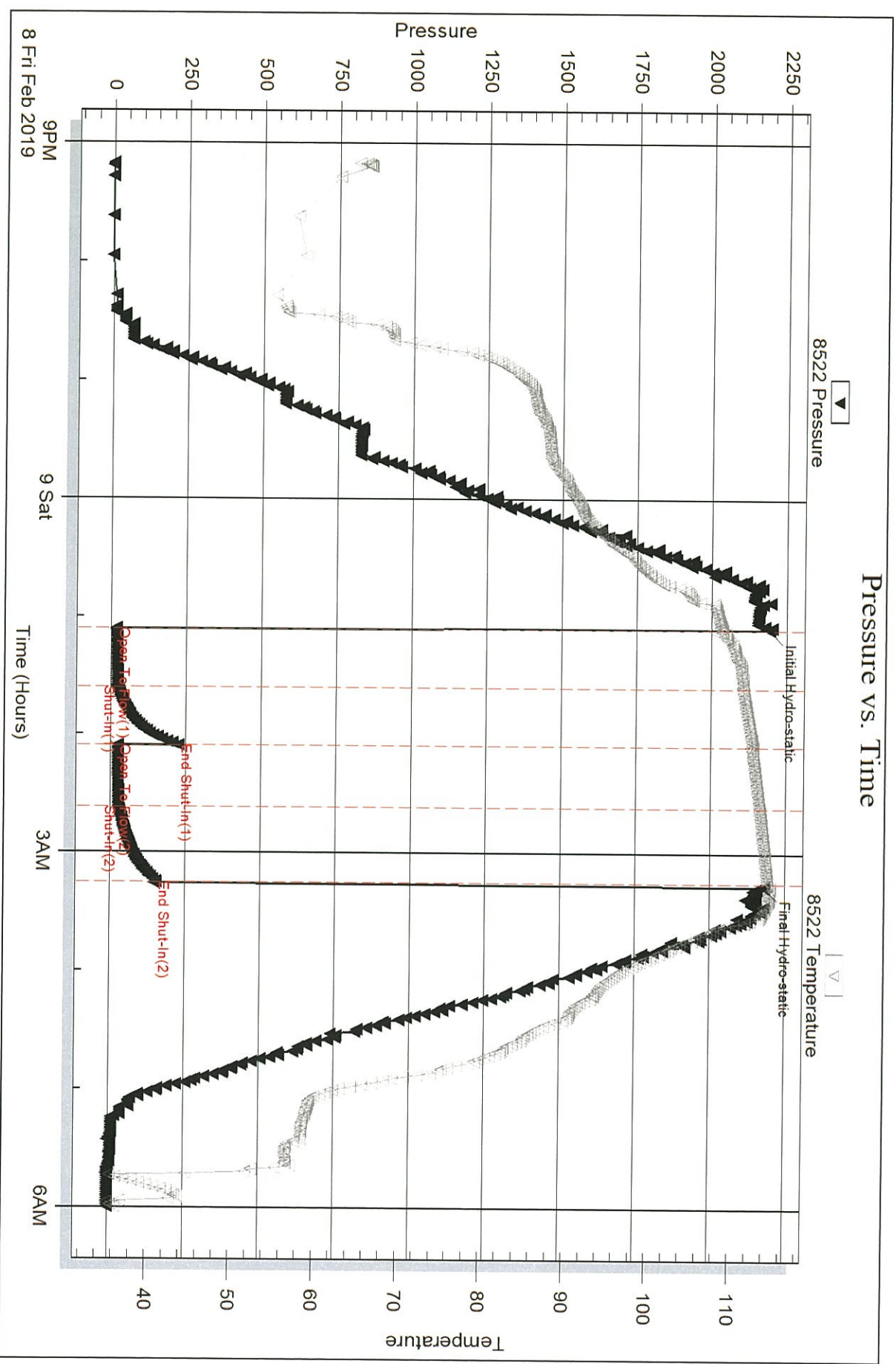
Serial #: 8522

Inside

Palomino Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 2



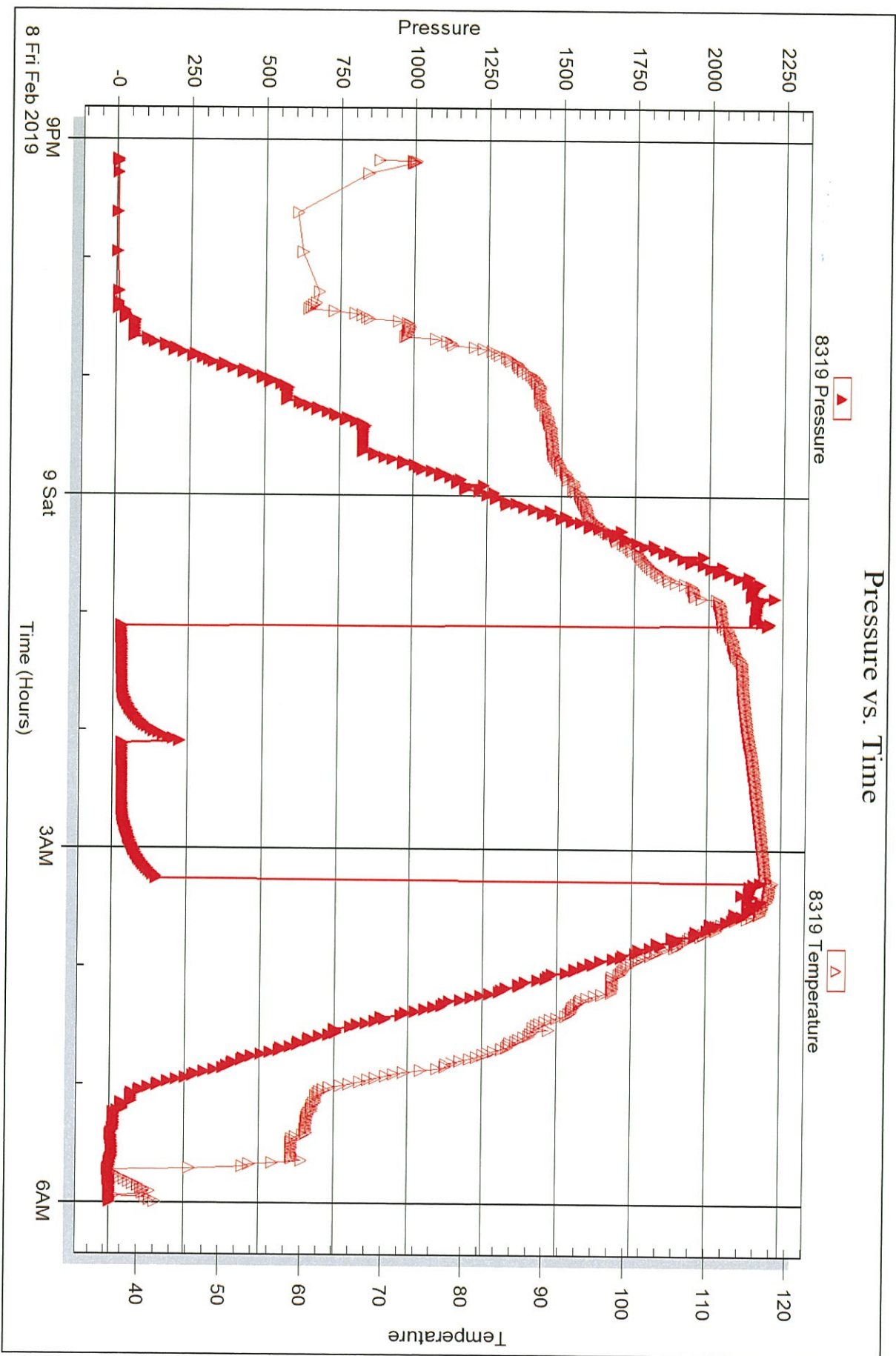
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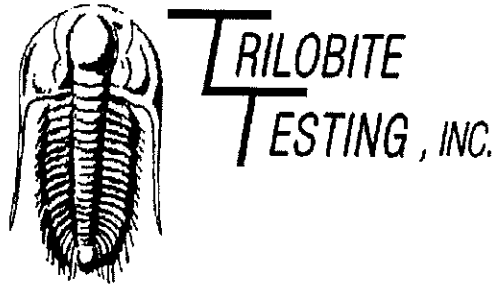
Outside

Palomino Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St.
Newton, KS 67114

ATTN: Andrew Stenzel

Stenzel Heirs #1

20-18s-24w Ness,KS

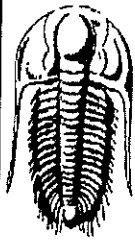
Start Date: 2019.02.09 @ 15:17:00

End Date: 2019.02.09 @ 23:20:45

Job Ticket #: 65186 DST #: 3

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

Printed: 2019.02.12 @ 16:35:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness, KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65186

DST#: 3

ATTN: Andrew Stenzel

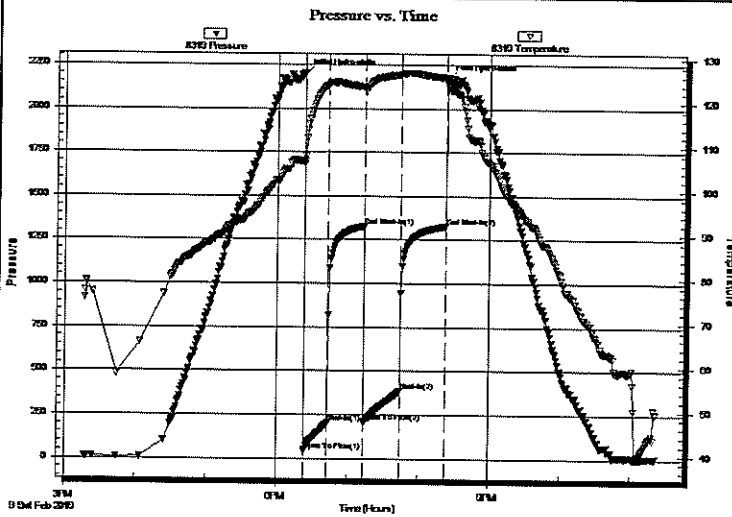
Test Start: 2019.02.09 @ 15:17:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:23:15
 Time Test Ended: 23:20:45
 Interval: **4328.00 ft (KB) To 4352.00 ft (KB) (TVD)**
 Total Depth: 4352.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2303.00 ft (KB)
 2293.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8319** Outside
 Press@RunDepth: 388.11 psig @ 4329.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.02.09 End Date: 2019.02.09 Last Calib.: 2019.02.09
 Start Time: 15:17:05 End Time: 23:20:44 Time On Btm: 2019.02.09 @ 18:23:00
 Time Off Btm: 2019.02.09 @ 20:24:00

TEST COMMENT: 20- IF BOB @ 6 min built to 33".
 30- IS: No return.
 30- FF: BOB @ 6 minutes, Built to 46"
 30- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.76	106.73	Initial Hydro-static
1	41.70	106.18	Open To Flow (1)
21	201.89	124.19	Shut-In(1)
51	1326.46	123.51	End Shut-In(1)
51	210.75	123.07	Open To Flow (2)
82	388.11	126.49	Shut-In(2)
120	1326.31	125.73	End Shut-In(2)
121	2167.48	125.18	Final Hydro-static

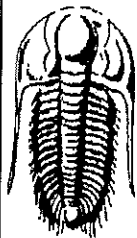
Recovery

Length (ft)	Description	Volume (bbl)
839.00	mcw 2m 98w (Oil spots)	10.69
1.00	Oil 100o	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

20-18s-24w Ness, KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65186

DST#: 3

ATTN: Andrew Stenzel

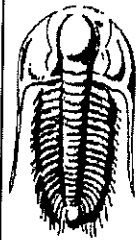
Test Start: 2019.02.09 @ 15:17:00

Tool Information

Drill Pipe:	Length: 4202.00 ft	Diameter: 3.80 inches	Volume: 58.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4328.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4302.00	
Shut In Tool	5.00		Fluid	4307.00	
Hydraulic tool	5.00			4312.00	
Jars	5.00			4317.00	
Safety Joint	2.00			4319.00	
Packer	5.00		Inside	4324.00	27.00 Bottom Of Top Packer
Packer	4.00			4328.00	
Stubb	1.00			4329.00	
Recorder	0.00	8522	Inside	4329.00	
Recorder	0.00	8319	Outside	4329.00	
Perforations	20.00			4349.00	
Bullnose	3.00			4352.00	24.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65186

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2019.02.09 @ 15:17:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 9900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 71000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
839.00	mcw 2m 98w (Oil spots)	10.694
1.00	Oil 100o	0.014

Total Length: 840.00 ft Total Volume: 10.708 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .132 @ 57f = 71000ppm

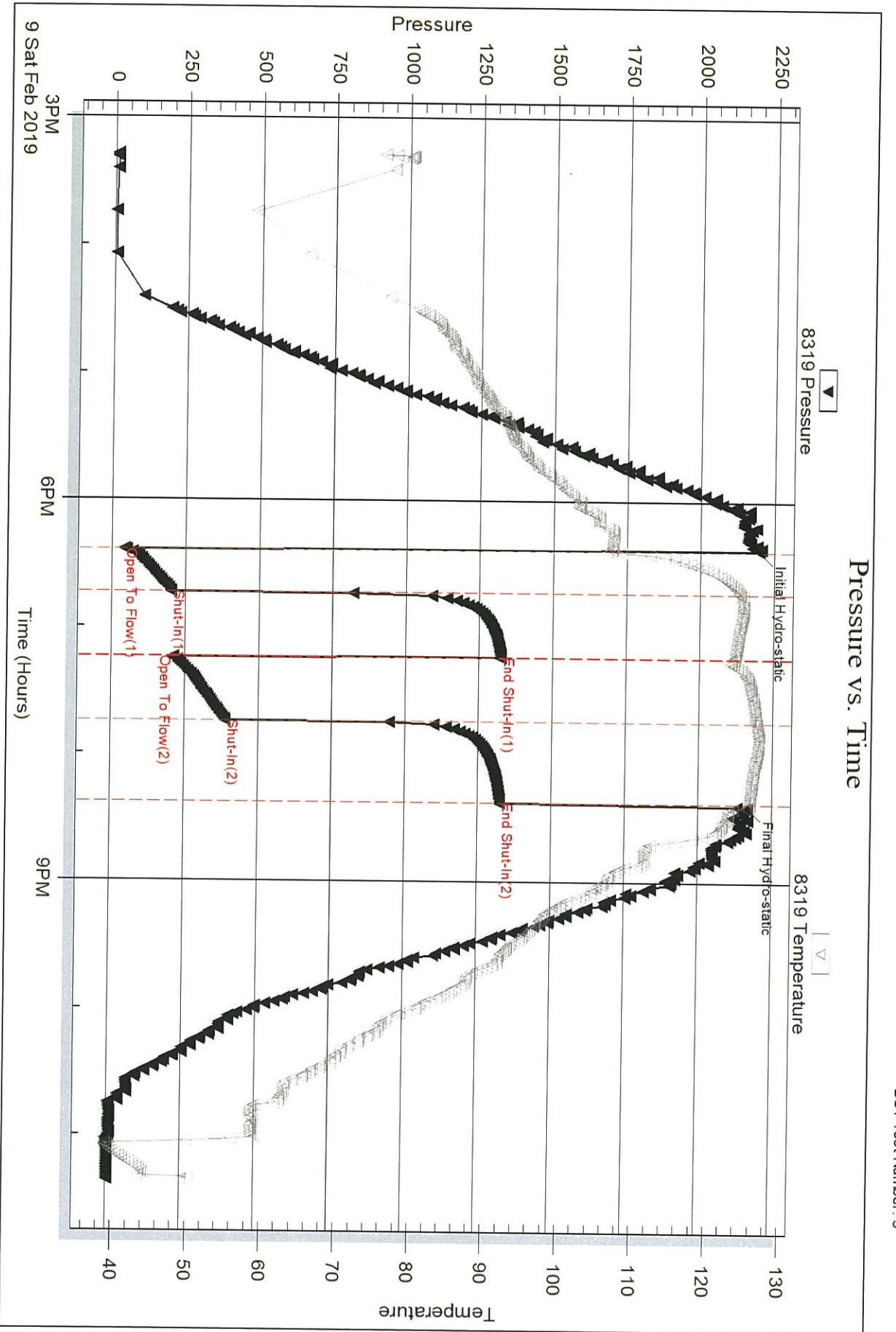
Serial #: 8319

Outside

Palomino Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65186

Printed: 2019.02.12 @ 16:35:15

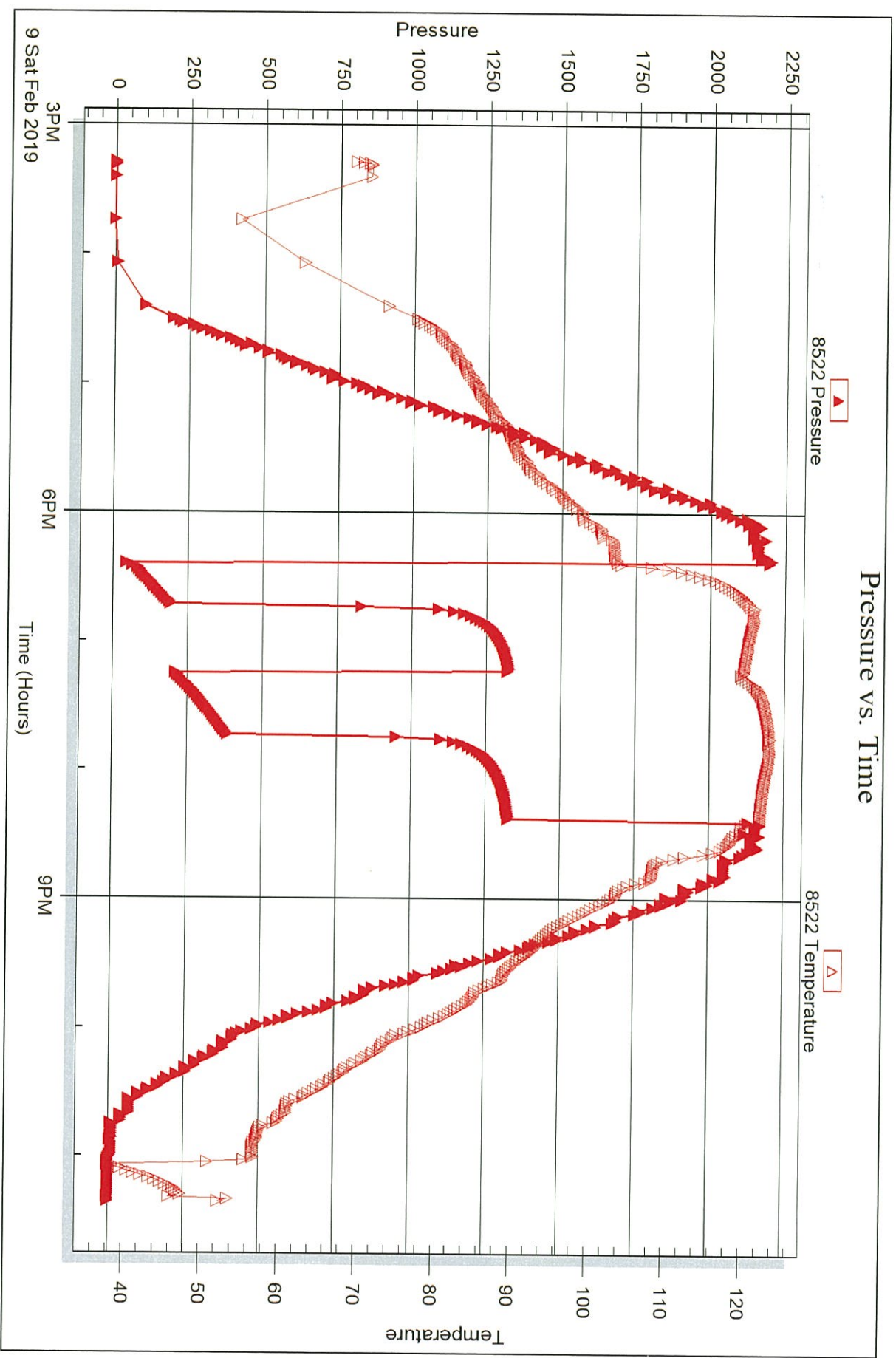
Serial #: 8522

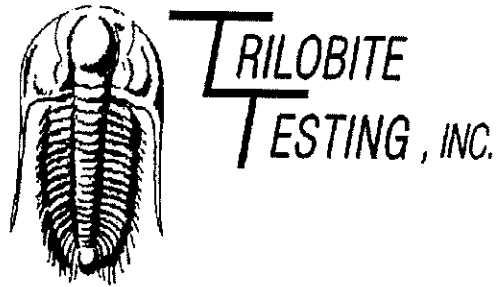
Inside

Palomino Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St.
Newton, KS 67114

ATTN: Andrew Stenzel

Stenzel Heirs #1

20-18s-24w Ness,KS

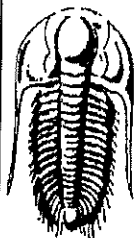
Start Date: 2019.02.10 @ 14:40:00

End Date: 2019.02.10 @ 22:19:45

Job Ticket #: 65187 DST #: 4

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

Printed: 2019.02.12 @ 16:34:46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65187

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.02.10 @ 14:40:00

GENERAL INFORMATION:

Formation: **Ft Scott- Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:45

Time Test Ended: 22:19:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4205.00 ft (KB) To 4324.00 ft (KB) (TVD)**

Total Depth: 4453.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2303.00 ft (KB)

2293.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 1204.89 psig @ 4206.00 ft (KB)

Start Date: 2019.02.10

End Date:

2019.02.10

Start Time: 14:40:05

End Time:

22:19:44

Capacity:

8000.00 psig

Last Calib.:

2019.02.10

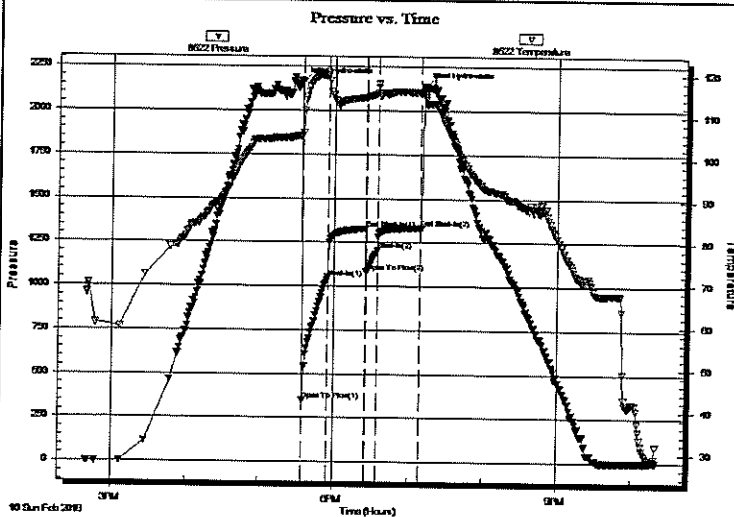
Time On Btm:

2019.02.10 @ 17:34:00

Time Off Btm:

2019.02.10 @ 19:12:15

TEST COMMENT: 20- IF: BOB @ 1 min. built to 285"
30- FS: No return.
10- FF: BOB @ 1 min, built to 84"
30: FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.50	105.37	Initial Hydro-static
1	348.39	106.06	Open To Flow (1)
21	1048.19	119.72	Shut-In(1)
51	1327.23	114.40	End Shut-In(1)
52	1078.45	114.47	Open To Flow (2)
61	1204.89	116.88	Shut-In(2)
95	1333.33	115.67	End Shut-In(2)
99	2135.88	114.64	Final Hydro-static

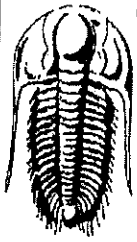
Recovery

Length (ft)	Description	Volume (bbl)
2050.00	w cm 10m 90w (Oil spots in tool)	27.68

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65187

DST#: 4

ATTN: Andrew Stenzel

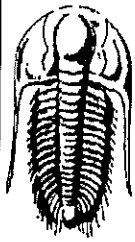
Test Start: 2019.02.10 @ 14:40:00

Tool Information

Drill Pipe:	Length: 4080.00 ft	Diameter: 3.80 inches	Volume: 57.23 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4205.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	248.00 ft			
Tool Length:	275.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4179.00		
Shut In Tool	5.00		Fluid	4184.00		
Hydraulic tool	5.00			4189.00		
Jars	5.00			4194.00		
Safety Joint	2.00			4196.00		
Packer	5.00		Inside	4201.00	27.00	Bottom Of Top Packer
Packer	4.00			4205.00		
Stubb	1.00			4206.00		
Recorder	0.00	8522	Inside	4206.00		
Recorder	0.00	8319	Outside	4206.00		
Perforations	2.00			4208.00		
Change Over Sub	1.00			4209.00		
Drill Pipe	95.00			4304.00		
Change Over Sub	1.00			4305.00		
Perforations	15.00			4320.00		
Blank Off Sub	1.00			4321.00	248.00	Tool Interval
Packer	3.00			4324.00		
Stubb	1.00			4325.00		
Perforations	1.00			4326.00		
Change Over Sub	1.00			4327.00		
Recorder	0.00	8845	Below	4327.00		
Drill Pipe	126.00			4453.00	1000274.00	Bottom Packers & Anchor
Total Tool Length:	275.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65187

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.02.10 @ 14:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2050.00	w cm 10m 90w (Oil spots in tool)	27.681

Total Length: 2050.00 ft Total Volume: 27.681 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .166 @ 50 f = 65000ppm

Straddle Packer did not seat

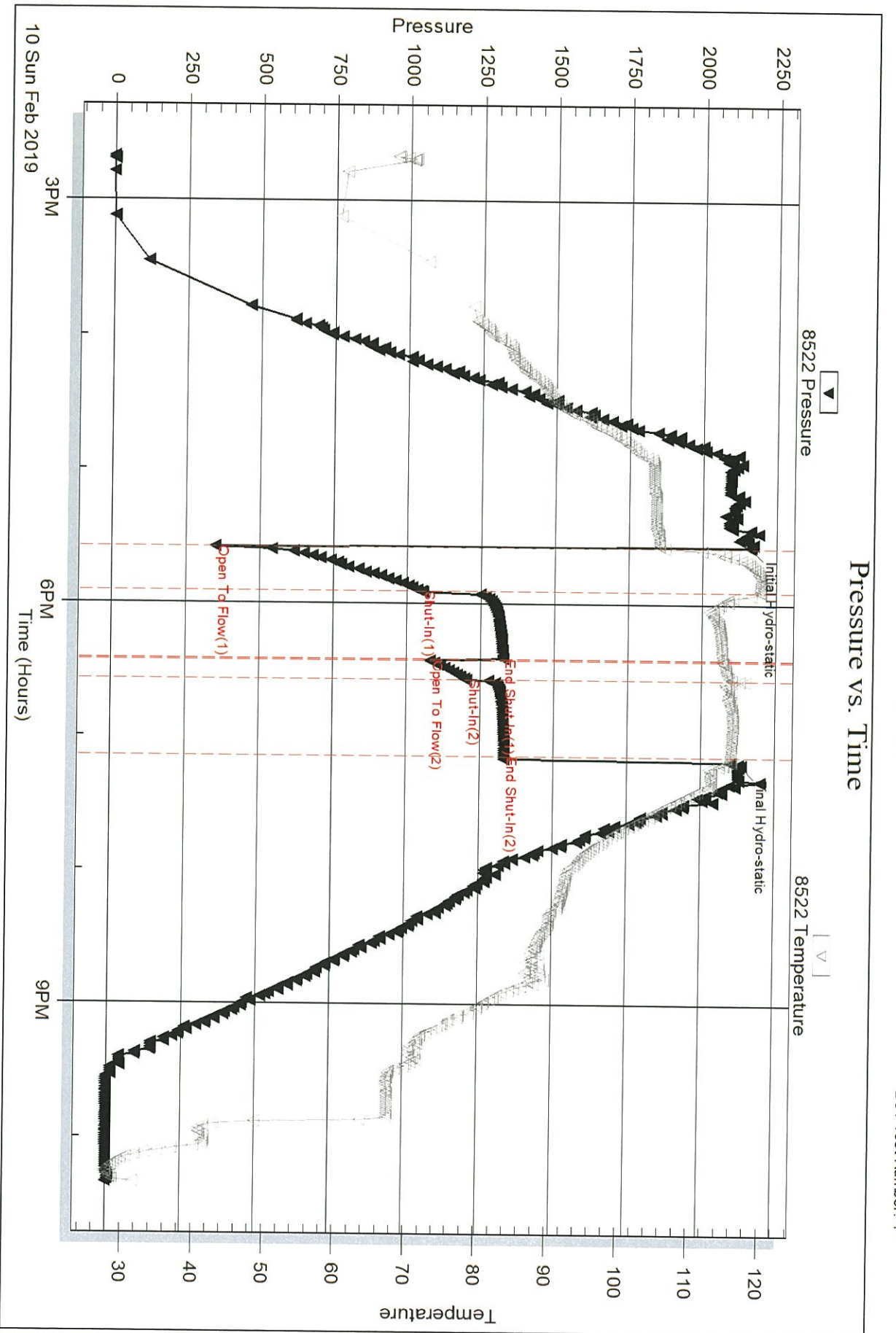
Serial #: 8522

Inside

Palomino Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65187

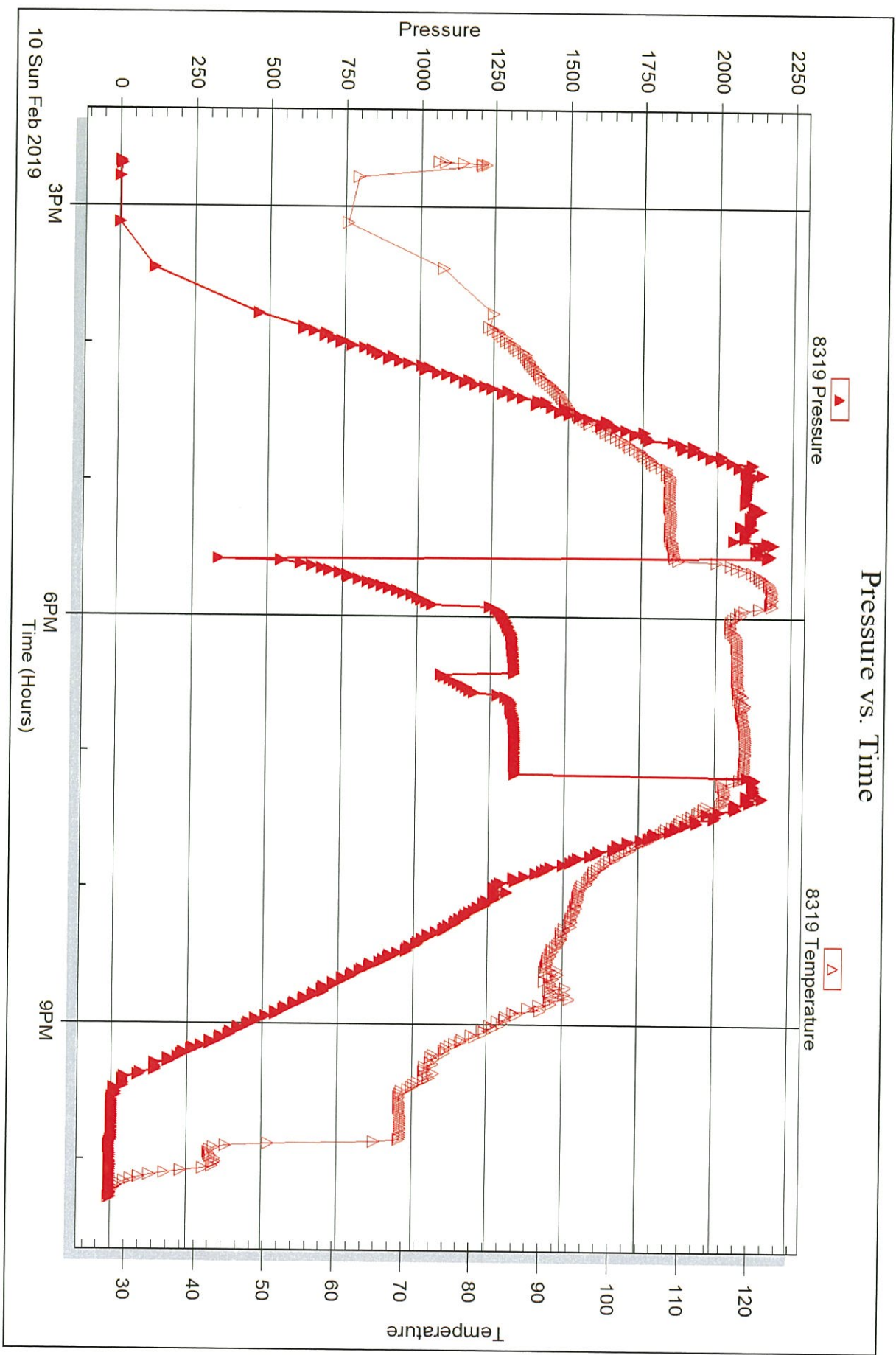
Printed: 2019.02.12 @ 16:34:47

Serial #: 8319

Outside Palomino Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65187

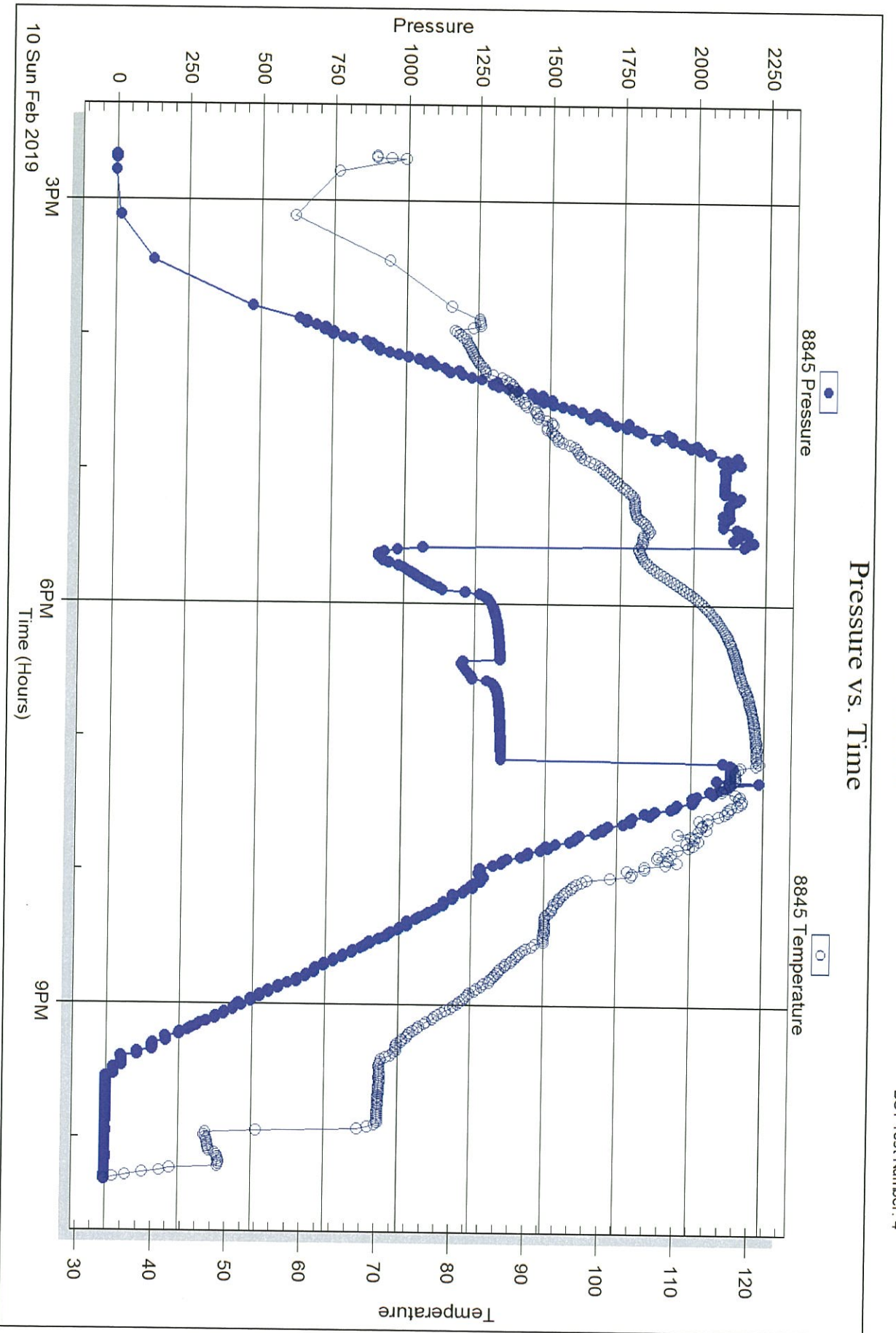
Printed: 2019.02.12 @ 16:34:47

Serial #: 8845

Below (Stratton) Petroleum, Inc.

Stenzel Heirs #1

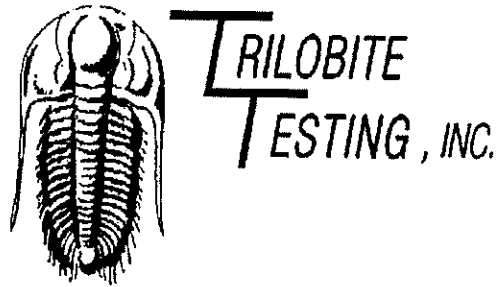
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65187

Printed: 2019.02.12 @ 16:34:47



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 84th St.
Newton, KS 67114

ATTN: Andrew Stenzel

Stenzel Heirs #1

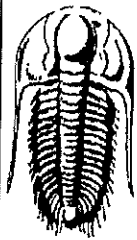
20-18s-24w Ness,KS

Start Date: 2019.02.11 @ 00:08:00

End Date: 2019.02.11 @ 07:27:15

Job Ticket #: 65188 DST #: 5

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness, KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65188

DST#: 5

ATTN: Andrew Stenzel

Test Start: 2019.02.11 @ 00:08:00

GENERAL INFORMATION:

Formation: **Ft Scott- Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:04:45

Time Test Ended: 07:27:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4188.00 ft (KB) To 4329.00 ft (KB) (TVD)**

Total Depth: 4453.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2303.00 ft (KB)

2293.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522 Inside

Press@RunDepth: 116.34 psig @ 4189.00 ft (KB)

Start Date: 2019.02.11

End Date:

2019.02.11

Start Time: 00:08:05

End Time:

07:27:14

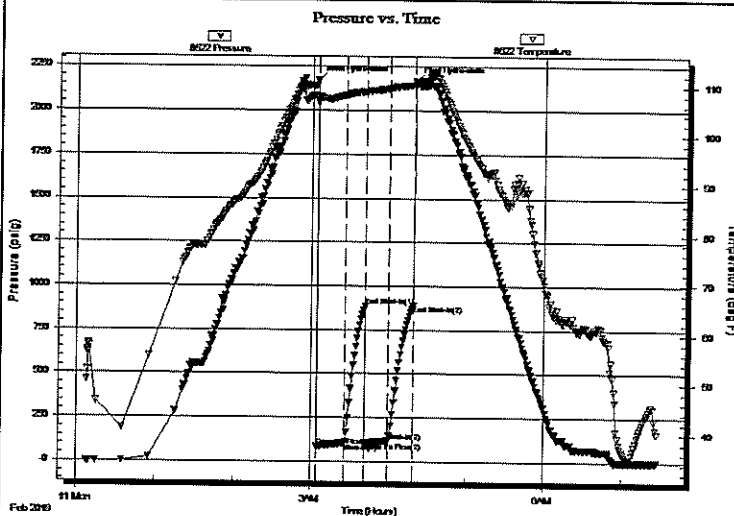
Capacity: 8000.00 psig

Last Calib.: 2019.02.11

Time On Btm: 2019.02.11 @ 03:04:30

Time Off Btm: 2019.02.11 @ 04:19:45

TEST COMMENT: 20- IF: 2 1/2" blow .
15- IS: No return.
15- FF: 1" blow
15- FS: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.66	107.07	Initial Hydro-static
1	84.05	106.54	Open To Flow (1)
22	102.81	108.11	Shut-In(1)
38	883.06	108.87	End Shut-In(1)
38	106.63	108.63	Open To Flow (2)
55	116.34	109.44	Shut-In(2)
75	889.75	110.19	End Shut-In(2)
76	2167.71	110.23	Final Hydro-static

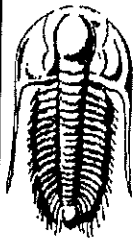
Recovery

Length (ft)	Description	Volume (bbl)
70.00	w cm 20w 80m (Oil spots)	0.34

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65188

DST#: 5

ATTN: Andrew Stenzel

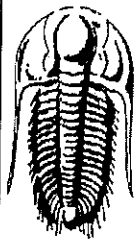
Test Start: 2019.02.11 @ 00:08:00

Tool Information

Drill Pipe:	Length: 4070.00 ft	Diameter: 3.80 inches	Volume: 57.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4188.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	265.00 ft			
Tool Length:	292.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4162.00	
Shut In Tool	5.00		Fluid	4167.00	
Hydraulic tool	5.00			4172.00	
Jars	5.00			4177.00	
Safety Joint	2.00			4179.00	
Packer	5.00		Inside	4184.00	27.00 Bottom Of Top Packer
Packer	4.00			4188.00	
Stubb	1.00			4189.00	
Recorder	0.00	8522	Inside	4189.00	
Recorder	0.00	8319	Outside	4189.00	
Perforations	2.00			4191.00	
Change Over Sub	1.00			4192.00	
Drill Pipe	127.00			4319.00	
Change Over Sub	1.00			4320.00	
Perforations	5.00			4325.00	
Blank Off Sub	1.00			4326.00	
Packer	3.00			4329.00	
Stubb	1.00			4330.00	265.00 Tool Interval
Packer	5.00			4335.00	
Perforations	18.00			4353.00	
Recorder	0.00	8845	Below	4353.00	
Change Over Sub	1.00			4354.00	
Drill Pipe	95.00			4449.00	
Change Over Sub	1.00			4450.00	
Bullnose	3.00			4453.00	1000291.00 Bottom Packers & Anchor
Total Tool Length:	292.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
New ton, KS 67114

Stenzel Heirs #1

Job Ticket: 65188

DST#: 5

ATTN: Andrew Stenzel

Test Start: 2019.02.11 @ 00:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 8700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	w cm 20w 80m (Oil spots)	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

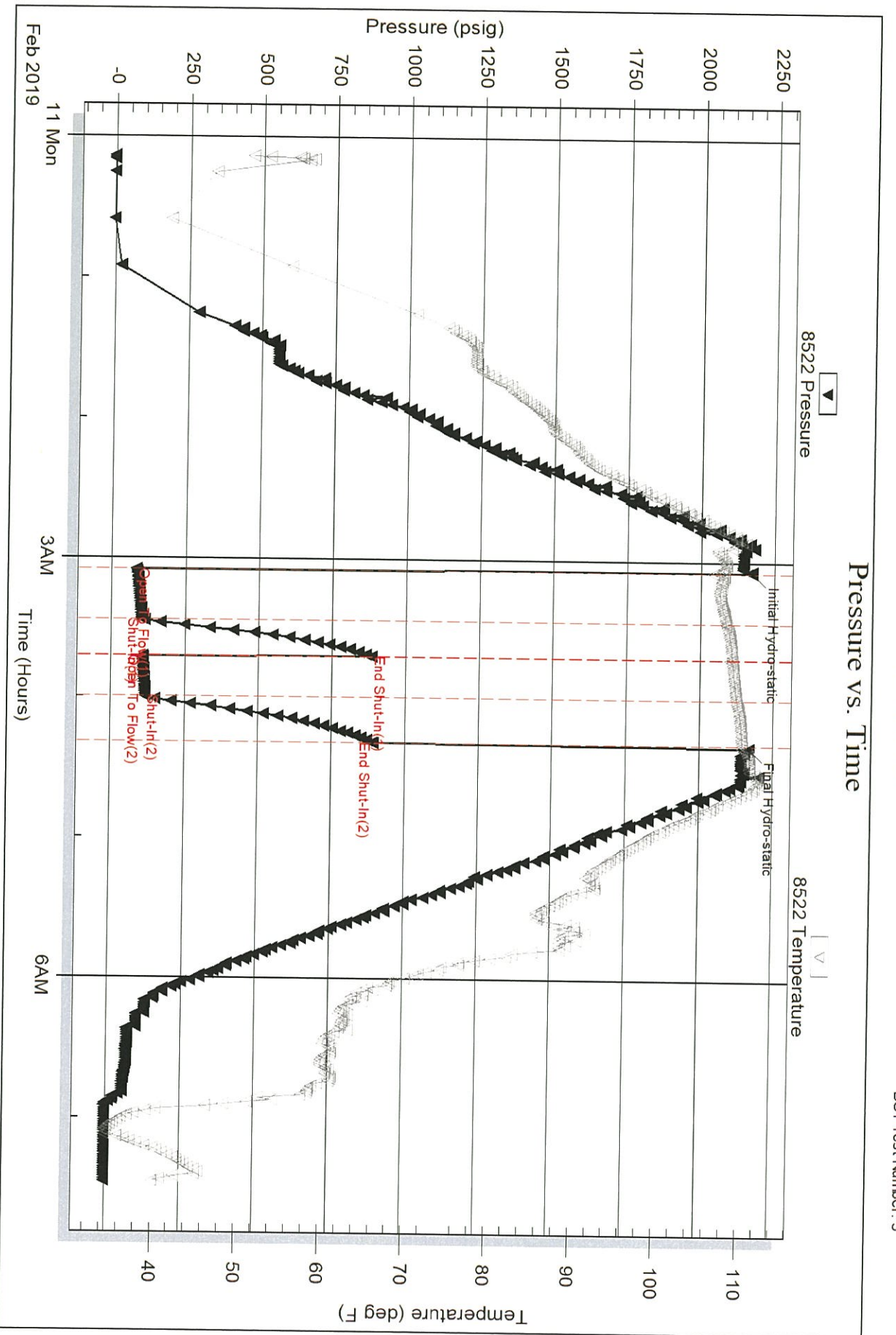
Serial #: 8522

Inside

Palomino Petroleum, Inc.

Stenzel Heirs #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 65188

Printed: 2019.02.12 @ 16:34:17

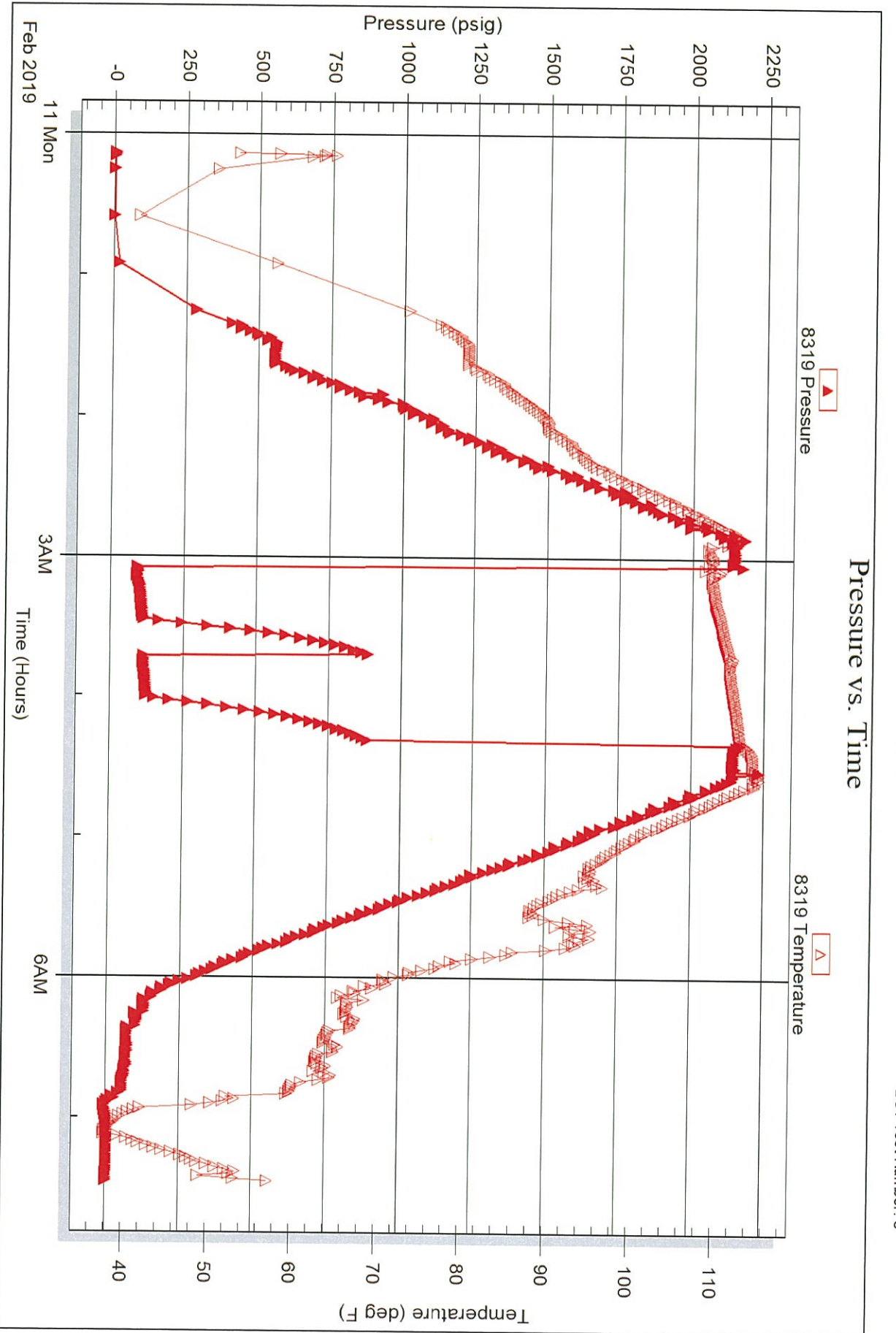
Serial #: 8319

Outside

Palomino Petroleum, Inc.

Stenzel Heirs #1

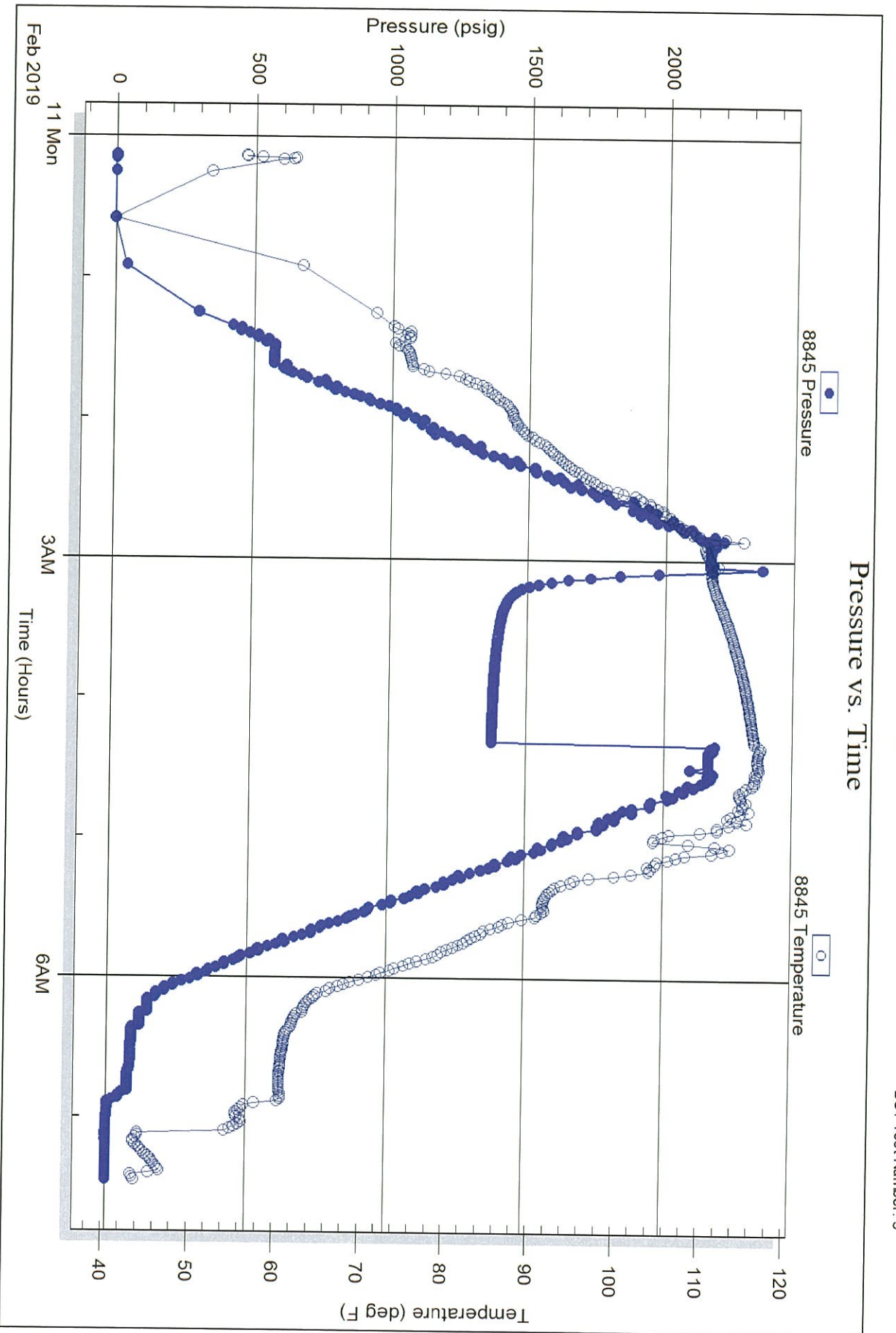
DST Test Number: 5

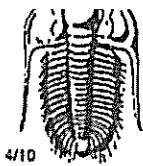


Trilobite Testing, Inc

Ref. No: 65188

Printed: 2019.02.12 @ 16:34:17





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65184

Well Name & No. Stenzel Heins #1 Test No. 1 Date 2/6/2019
 Company Set Palomino Petroleum, Inc Elevation 2302 KB 2293 GL
 Address 4924 SE 84th St Newton, Ks 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW 22
 Location: Sec. 20 Twp 18S Rge. 24W Co. Nes State Ks

Interval Tested 3706 - 3812 Zone Tested LKC
 Anchor Length 106 Drill Pipe Run 3577 Mud Wt. 9.1
 Top Packer Depth 3701 Drill Collars Run 118 Vis 53
 Bottom Packer Depth 3706 Wt. Pipe Run 0 WL 8.0
 Total Depth 3812 Chlorides 4800 ppm System LCM 1st
 Blow Description IF 7" blow
ISF No return
FP 4 1/2" blow
FST No return

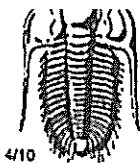
Rec	Feet of	%gas	%oil	%water	%mud
<u>166</u>	<u>WCN</u>			<u>15</u>	<u>85</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 160 BHT 104 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1814 Test 1050 T-On Location 1330
 (B) First Initial Flow 24 Jars 250 T-Started 1355
 (C) First Final Flow 78 Safety Joint 75 T-Open 1836
 (D) Initial Shut-In 1192 Circ Sub — T-Pulled 2036
 (E) Second Initial Flow 82 Hourly Standby — T-Out 2336
 (F) Second Final Flow 99 Mileage 106 RT 106 Comments —
 (G) Final Shut-In 1182 Sampler —
 (H) Final Hydrostatic 1800 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1481
 EM Tool —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1481
 MP/DST Disc'l —

Approved By _____

Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65185

Well Name & No. Stenzel flows # 1 Test No. 2 Date 2/09/2019
 Company Palomino Petroleum, Inc Elevation 2303 KB 2299 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW 22
 Location: Sec. 20 Twp 18S Rge. 24W Co. Noss State KS

Interval Tested 4321 - 4330 Zone Tested Mississippian
 Anchor Length ~~1122~~ 9' Drill Pipe Run 4202 Mud Wt. 9.4
 Top Packer Depth 4316 Drill Collars Run 118 Vls 50
 Bottom Packer Depth 4321 Wt. Pipe Run 8 WL 8.8
 Total Depth 4330 Chlorides 1100 ppm System LCM TR

Blow Description IF 1" blow
FSI No return
FF Surface blow
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>50cm</u>		<u>2</u>	<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

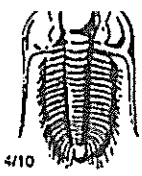
Rec Total 20 BHT 114 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2193 Test 1150 T-On Location 2100
 (B) First Initial Flow 18 Jars 250 T-Started 2110
 (C) First Final Flow 23 Safety Joint 75 T-Open 0103
 (D) Initial Shut-In 227 Circ Sub N/C T-Pulled 0303
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 0600
 (F) Second Final Flow 28 Mileage 106 + 106 Comments _____
 (G) Final Shut-In 155 Sampler _____
 (H) Final Hydrostatic 2180 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 EM Tool _____
 Initial Shut-In 30 Ruined Shale Packer _____
 Final Flow 30 Ruined Packer _____
 Final Shut-In 30 Extra Copies _____
 Sub Total 0
 Total 1581
 Sub Total 1581 MP/DST Disc'l _____

Approved By _____ Our Representative _____

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TRIBOLITE TESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket

NO. 65186

Well Name & No. Stenzel Hers #1 Test No. 3 Date 08/09/2019
 Company Palomino Petroleum Inc Elevation 2303 KB 2299 GL
 Address 4974 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW #22
 Location: Sec. 20 Twp 18S Rge. 24W Co. Ness State Ks

Interval Tested 4328 - 4352 Zone Tested Mississippian
 Anchor Length 24' Drill Pipe Run 4202 Mud Wt. 9.6
 Top Packer Depth 4323 Drill Collars Run 118 Vis 66
 Bottom Packer Depth 4328 Wt. Pipe Run Ø WL 4.4
 Total Depth 4352 Chlorides 9,900 ppm System LCM Tr
 Blow Description TF BOB @ 6 min. built to 33"
ISI No return.
FF BOB @ 6 min built to 46"
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Oil</u>	<u>100</u>			
<u>839</u>	<u>new oil spots</u>		<u>98</u>	<u>2</u>	

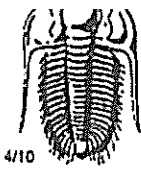
Rec Total 840 BHT 126 Gravity — API RW 132 @ 57 °F Chlorides 71,000 ppm

(A) Initial Hydrostatic 2200 Test 1150 T-On Location 1500
 (B) First Initial Flow 42 Jars 250 T-Started 1510
 (C) First Final Flow 202 Safety Joint 75 T-Open 1822
 (D) Initial Shut-In 1326 Circ Sub _____ T-Pulled 2022
 (E) Second Initial Flow 211 Hourly Standby _____ T-Out 2321
 (F) Second Final Flow 388 Mileage 166 RT 106 Comments _____
 (G) Final Shut-In 1326 Sampler _____
 (H) Final Hydrostatic 2167 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 2030
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1581
 Total 1581
 MP/DST Disc'l _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65187

Well Name & No. Stenzel Heirs #1 Test No. 4 Date 02/10/2019
 Company Palomud Petroleum, Inc Elevation 2303 KB 2299 GL
 Address 4927 SE 84th St Newton, Ks 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW #2L
 Location: Sec. 20 Twp 18c Rge. 34w Co. Necc State Ks

Interval Tested 4205 4324 Zone Tested Fl Scott
 Anchor Length 119 129 Tail Drill Pipe Run 4090 Mud Wt. 9.5
 Top Packer Depth 4700/4705 Drill Collars Run 118 Vls 45
~~Bottom Packer Depth~~ 4324 Wt. Pipe Run 0 WL 9.6
 Total Depth 4453 Chlorides 5700 ppm System LCM Tr
 Blow Description IF BOB 1 min built to 260"
ISI No return.
FF BOB @ 1 min built to 64"
FSE No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2040</u>	<u>mcw</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2040 BHT 116 Gravity - API RW 166 @ 50°F Chlorides 65000 ppm

(A) Initial Hydrostatic <u>2161</u>	<input checked="" type="checkbox"/> Test <u>950</u>	T-On Location <u>1430</u>
(B) First Initial Flow <u>248</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1610</u>
(C) First Final Flow <u>1048</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1836</u>
(D) Initial Shut-In <u>1327</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>2006</u>
(E) Second Initial Flow <u>1078</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2217</u>
(F) Second Final Flow <u>1205</u>	<input checked="" type="checkbox"/> Mileage <u>106.2 + 106</u>	Comments <u>straddle packer did not seat</u>
(G) Final Shut-In <u>1333</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> EM Tool
(H) Final Hydrostatic <u>2136</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input checked="" type="checkbox"/> Ruined Shale Packer <u>320</u>
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>20</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>320</u>
Final Flow <u>10</u>	<input type="checkbox"/> Day Standby	Total <u>2551</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2231</u>	

Approved By _____ Our Representative [Signature]

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TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65188

Well Name & No. Stenzel Hews #1 Test No. 5 Date 02/11/2019
 Company Palomino Elevation 2303 KB 2299 GL
 Address 4924 SE 84th St Nanton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW 22
 Location: Sec. 20 Twp 18S Rge. 34W Co. Ness State KS

Interval Tested 4188 - 4329 Zone Tested Ft Scott / Cherokee
 Anchor Length 124 / 141 Tail Drill Pipe Run 4070 Mud Wt. 9.5
 Top Packer Depth ~~4188~~ / 4188 Drill Collars Run 118 Vis 45
 Bottom Packer Depth 4329 / 4334 Wt. Pipe Run 0 WL 9.6
 Total Depth 4453 Chlorides 8700 ppm System LCM Tr

Blow Description TFI 2 1/2" blow
TST! No return
FF! 1" blow
FSI! No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>WCM</u>			<u>26</u>	<u>80</u>
	<u>oil spots</u>				

Rec Total 70 BHT 110 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2174 Test 1150 T-On Location _____
 (B) First Initial Flow 84 Jars 250 T-Started 0010
 (C) First Final Flow 103 Safety Joint 75 T-Open 0303
 (D) Initial Shut-In 383 Circ Sub _____ T-Pulled 0410
 (E) Second Initial Flow 106 Hourly Standby _____ T-Out 0727
 (F) Second Final Flow 116 Mileage 106 RT Comments _____
 (G) Final Shut-In 890 Sampler _____
 (H) Final Hydrostatic 2168 Straddle 600 EM Tool _____
 Shale Packer 250 Ruined Shale Packer _____

Initial Open 20 Extra Packer _____ Ruined Packer _____
 Initial Shut-In 15 Extra Recorder _____ Extra Copies _____
 Final Flow 15 Day Standby _____ Sub Total 0
 Final Shut-In 15 Accessibility _____ Total 2325
 Sub Total 2325 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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Carla Penwell

From: Klee Robert Watchous
Sent: Tuesday, February 12, 2019 4:56 PM
To: Carla Penwell
Cc: Wes Penner
Subject: RE: Harper Co.

Carla:

Please pay Thomas Energy and mail it today.

Thanks,
Klee

From: Wes Penner <wes@ppiks.com>
Sent: Tuesday, February 12, 2019 3:49 PM
To: Klee Robert Watchous <krw@ppiks.com>
Subject: FW: Harper Co.

FYI (below)

From: JAMES [<mailto:JAMES@THOMASENERGYINC.COM>]
Sent: Tuesday, February 12, 2019 3:46 PM
To: Wes Penner <wes@ppiks.com>
Subject: RE: Harper Co.

No. She is indirectly asking when you are going to pay me, so I can pay her.

From: Wes Penner [<mailto:wes@ppiks.com>]
Sent: Tuesday, February 12, 2019 3:45 PM
To: james <james@thomasenergyinc.com>
Subject: RE: Harper Co.

Not sure I understand this one. Are we supposed to send her a check??

From: james [<mailto:james@thomasenergyinc.com>]
Sent: Tuesday, February 12, 2019 3:36 PM
To: Wes Penner <wes@ppiks.com>
Subject: Harper Co.

Wes:

An LPRI I sent to Newton last week is attached. Ms. Ricke has already inquired when she might expect her check.

Jim



Home
(785) 798-3400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-5977

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

Well Name: Stenzel Heirs #1
Well Id: 15-135-26050-00-00
Location: SE-NW-NW-SE Sec. 20-18S-24W (Ness County)
License Number: 30742
Spud Date: 2/1/19
Surface Coordinates: 2290' FSL & 2291' FEL
Region: KANSAS
Drilling Completed: 2/11/19

Bottom Hole
Coordinates:
Ground Elevation (ft): 2293
Logged Interval (ft): 3400 To: TD
Formation: MISSISSIPPI
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2303
Total Depth (ft): 4453

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Palomino Petroleum, Inc.
Address: 4924 SE 84th St
Newton, KS 67114

GEOLOGIST

Name: Andrew Stenzel
Company: Petroleum Geologist
Address: 501 S. Franklin
Ness City, KS 67560

Drilling Report

DAILY DRILLING REPORT:

2/1/19 MIRU, Ran surface casing
2/2/19 Drilling @ 573'
2/3/19 Drilling @ 2174'
2/4/19 Drilling @ 3148'
2/5/19 Drilling @ 3433'
2/6/19 DST #1
2/7/19 Drilling @ 3868'
2/8/19 Drilling @ 4230'
2/9/19 DST #2, Tripping in with bit after DST #2, DST #3
2/10/19 Drilling @ 4427', ran electric logs, DST #4
2/11/19 DST #5, plugged & abandoned

Services

RIG: WW Drilling, Rig #22

MUD: MUDCO

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

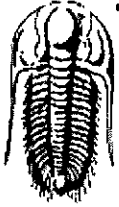
Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing set at 224'.

PRODUCTION Casing: None

Formation Tops

Sample Tops		LogTops	
Anhy.	1566 (+737)	Anhy.	1566 (+737)
Base Anhy.	1597 (+706)	Base Anhy.	1606 (+697)
Heebner	3674 (-1371)	Heebner	3676 (-1373)
Lansing	3715 (-1412)	Lansing	3719 (-1416)
BKC	4038 (-1735)	BKC	4040 (-1737)
Marmaton	4063 (-1760)	Marmaton	4060 (-1757)
Pawnee	4138 (-1829)	Pawnee	4139 (-1836)
Ft. Scott	4215 (-1912)	Ft. Scott	4219 (-1916)
Cher. Sh.	4239 (-1936)	Cher. Sh.	4240 (-1937)
Miss.	4320 (-2017)	Miss.	4322 (-2019)
RTD	4450 (-2147)	LTD	4453 (-2150)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness, KS

4924 SE 84th St.
New Ion, KS 67114

Stenzel Heirs #1

Job Ticket: 65184

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.02.06 @ 13:55:00

GENERAL INFORMATION:

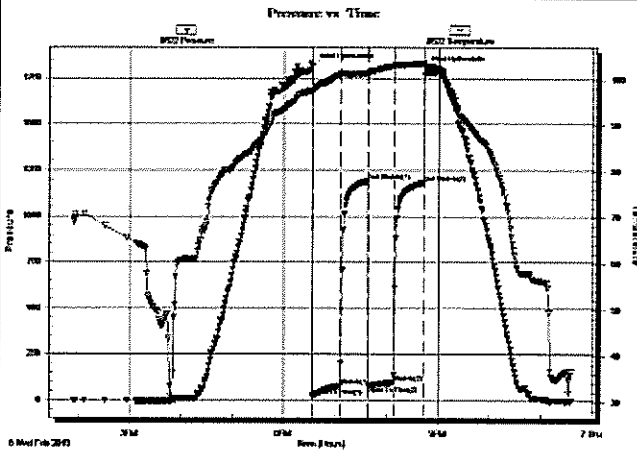
Formation: LKC
 Deviated: No Whipstock: fl (KB)
 Time Tool Opened: 18:33:30
 Time Test Ended: 23:36:15
 Interval: 3706.00 ft (KB) To 3812.00 ft (KB) (TVD)
 Total Depth: 3812.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2303.00 ft (KB)
 2293.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 98.91 psig @ 3707.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2019.02.06 End Date: 2019.02.06 Last Calib.: 2019.02.06
 Start Time: 13:55:05 End Time: 23:36:15 Time On Blirt: 2019.02.06 @ 18:33:15
 Time Off Blirt: 2019.02.06 @ 20:44:45

TEST COMMENT: 30- IF: 7" blow.
 30- IS: No return.
 30- FF: 4 1/2" blow.
 30- FS: No return.



PRESSURE SUMMARY

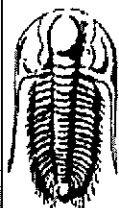
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1814.39	97.66	Initial Hydro-static
1	23.58	97.16	Open To Flow (1)
33	78.05	101.20	Shut-in(1)
65	1192.36	101.43	End Shut-in(1)
65	81.87	100.94	Open To Flow (2)
95	98.91	102.99	Shut-in(2)
130	1182.11	103.57	End Shut-in(2)
132	1800.25	103.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	w cm 15w 85m (Oil spots on top)	1.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
Newton, KS 67114

Stenzel Heirs #1

Job Ticket: 65185 DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.02.08 @ 21:10:00

GENERAL INFORMATION:

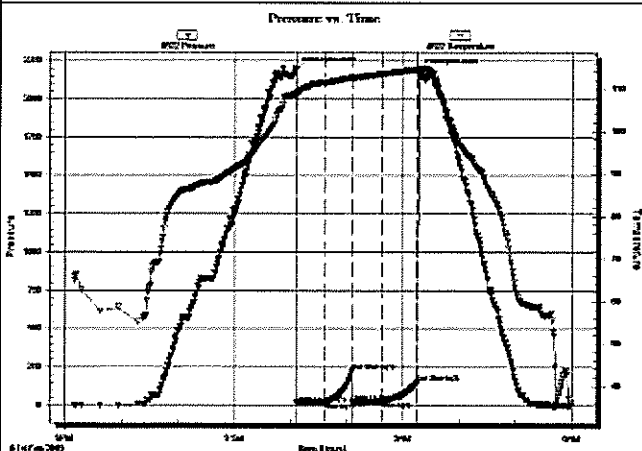
Formation: **Mississippian**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 01:06:15
 Time Test Ended: 06:00:15
 Interval: 4321.00 ft (KB) To 4330.00 ft (KB) (TVD)
 Total Depth: 4330.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2303.00 ft (KB)
 2293.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 28.09 psig @ 4322.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2019.02.08 End Date: 2019.02.09
 Last Callb.: 2019.02.09
 Start Time: 21:10:05 End Time: 06:00:15
 Time On Blmt: 2019.02.09 @ 01:06:00
 Time Off Blmt: 2019.02.09 @ 03:16:45

TEST COMMENT: 30- IF: 1" blow.
 30- IS: No return.
 30- FF: Surface blow.
 30- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.77	108.94	Initial Hydro-static
1	17.99	107.81	Open To Flow (1)
31	22.97	111.40	Shut-in(1)
60	226.70	112.61	End Shut-in(1)
60	24.84	112.32	Open To Flow (2)
91	28.09	113.45	Shut-in(2)
130	155.01	114.46	End Shut-in(2)
131	2179.88	114.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm2o 98m	0.10

* Recovery from multiple tests

Gas Rates

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

TriLOBITE Testing, Inc

Ref. No: 65185

Printed: 2019.02.12 @ 16:35:36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness,KS

4924 SE 84th St.
Newton, KS 67114

Stenzel Heirs #1

Job Ticket: 65186 DST#: 3

ATTN: Andrew Stenzel

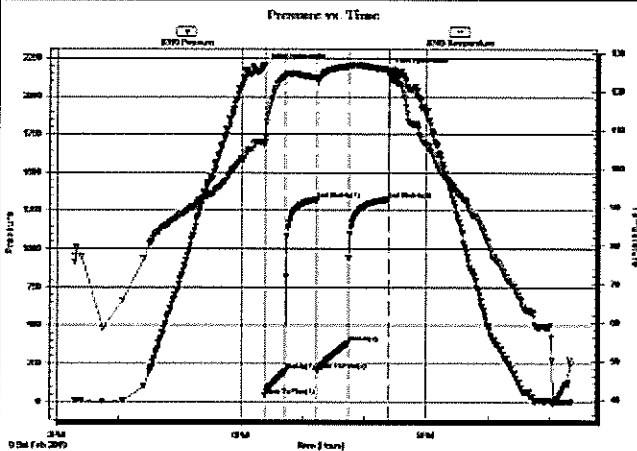
Test Start: 2019.02.09 @ 15:17:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 18:23:15
 Time Test Ended: 23:20:45
 Interval: 4328.00 ft (KB) To 4352.00 ft (KB) (TVD)
 Total Depth: 4352.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2303.00 ft (KB)
 2293.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8319 Outside
 Press@RunDepth: 388.11 psig @ 4329.00 ft (KB)
 Start Date: 2019.02.09 End Date: 2019.02.09
 Start Time: 15:17:05 End Time: 23:20:44
 Capacity: 8000.00 psig
 Last Calib.: 2019.02.09
 Time On Btm: 2019.02.09 @ 18:23:00
 Time Off Btm: 2019.02.09 @ 20:24:00

TEST COMMENT: 20- IF BOB @ 6 min built to 33".
 30- IS: No return.
 30- FF: BOB @ 6 minutes, Built to 46"
 30- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.76	106.73	Initial Hydro-static
1	41.70	106.18	Open To Flow (1)
21	201.89	124.19	Shut-in(1)
51	1326.46	123.51	End Shut-in(1)
51	210.75	123.07	Open To Flow (2)
82	388.11	126.49	Shut-in(2)
120	1326.31	125.73	End Shut-in(2)
121	2167.48	125.18	Final Hydro-static

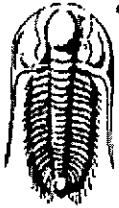
Recovery

Length (ft)	Description	Volume (bbl)
839.00	mcw 2m 98w (Oil spots)	10.69
1.00	Oil 100o	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

20-18s-24w Ness, KS

4924 SE 84th St.
Newton, KS 67114

Stenzel Heirs #1

Job Ticket: 65187

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2019.02.10 @ 14:40:00

GENERAL INFORMATION:

Formation: Ft Scott- Cherokee

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:45

Time Test Ended: 22:19:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4205.00 ft (KB) To 4324.00 ft (KB) (TVD)

Total Depth: 4453.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2303.00 ft (KB)

2293.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 1204.89 psig @ 4206.00 ft (KB)

Start Date: 2019.02.10

End Date:

2019.02.10

Capacity: 8000.00 psig

Last Callb.:

2019.02.10

Start Time:

14:40:05

End Time:

22:19:44

Time On Btm:

2019.02.10 @ 17:34:00

Time Off Btm:

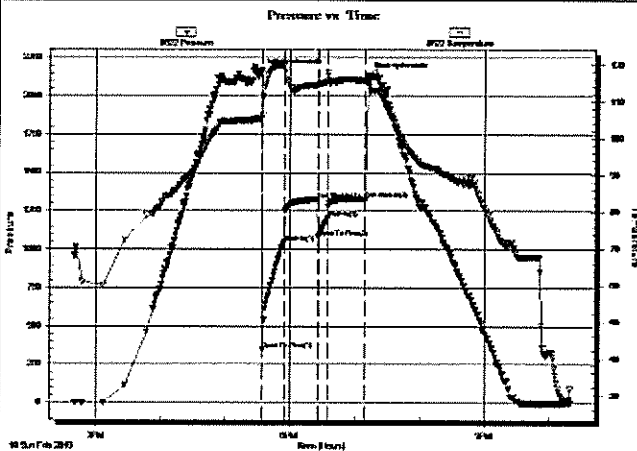
2019.02.10 @ 19:12:15

TEST COMMENT: 20- IF: BOB @ 1 min. built to 285".

30- FSI: No return.

10- FF: BOB @ 1 min. built to 84"

30: FSI: No return.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.50	105.37	Initial Hydro-static
1	348.39	106.06	Open To Flow (1)
21	1048.19	119.72	Shut-In(1)
51	1327.23	114.40	End Shut-In(1)
52	1078.45	114.47	Open To Flow (2)
61	1204.89	116.88	Shut-In(2)
95	1333.33	115.67	End Shut-In(2)
99	2135.88	114.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2050.00	w cm 10m 90w (Oil spots in tool)	27.68

* Recovery from multiple tests

Gas Rates

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

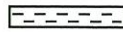

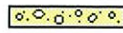

Trilobite Testing, Inc

Ref. No: 65187

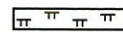

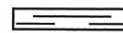
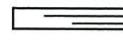
Printed: 2019.02.12 @ 16:34:46





ROCK TYPES

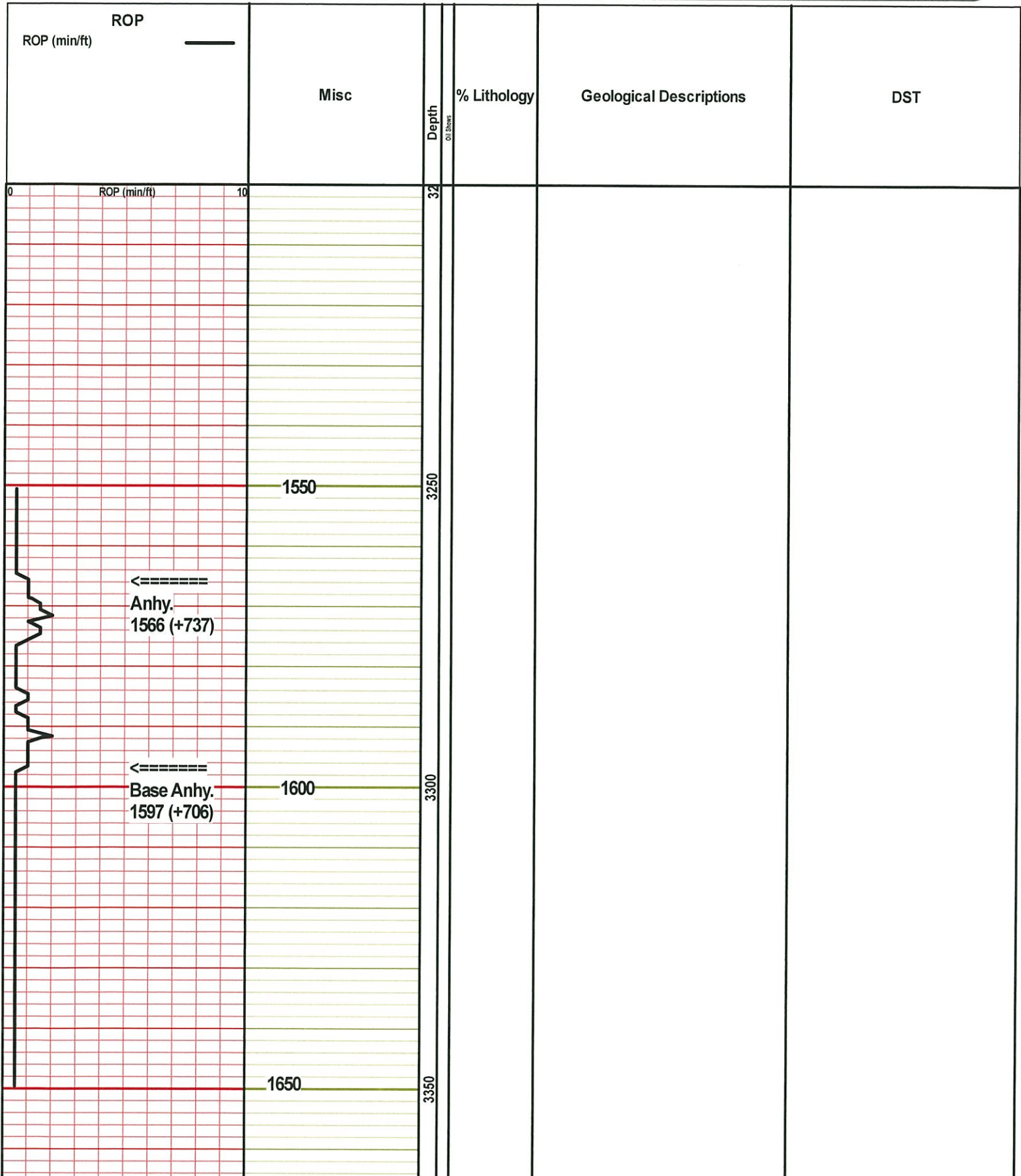
-  Anhy
-  Bent
-  Brec
-  Cht

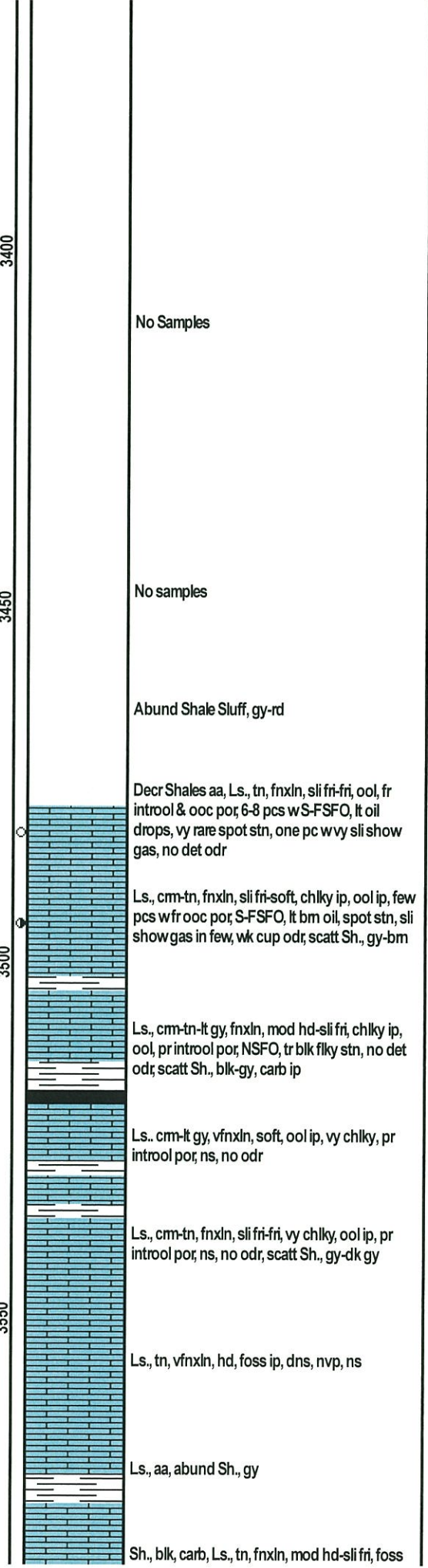
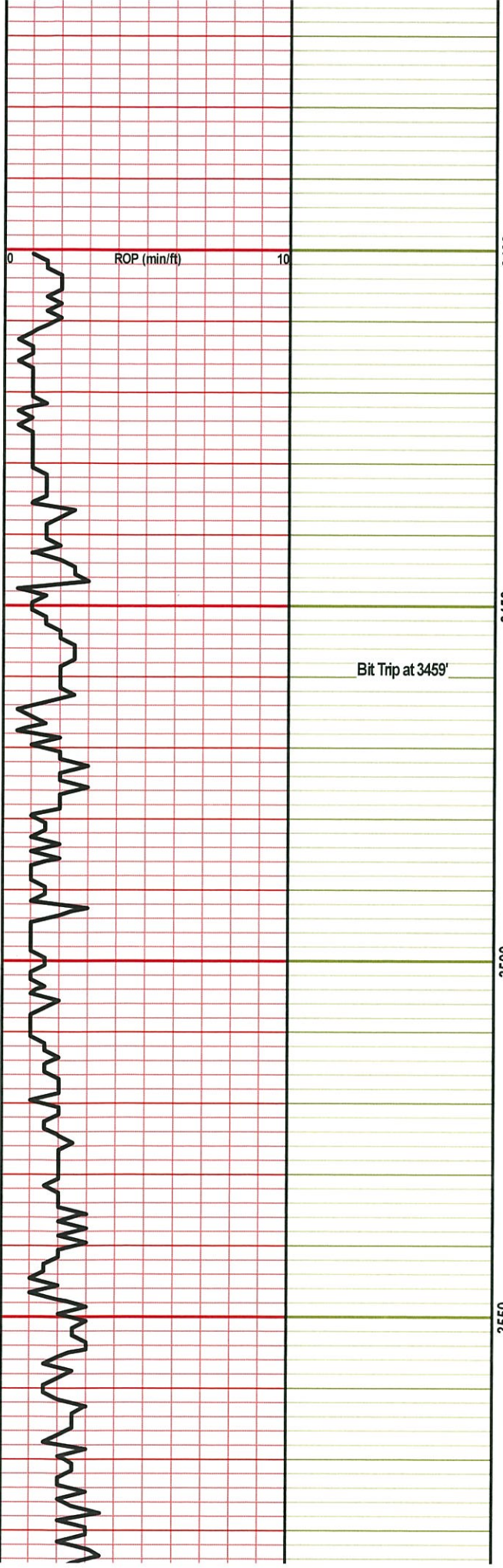
-  Clyst
-  Carb shale
-  Congl
-  Dol

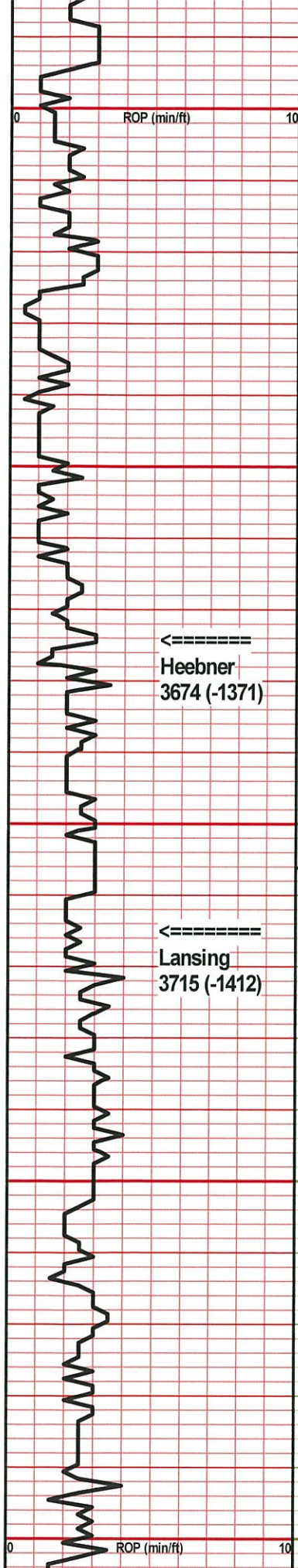
-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol

-  Shgy
-  Slstst
-  Ss
-  Till





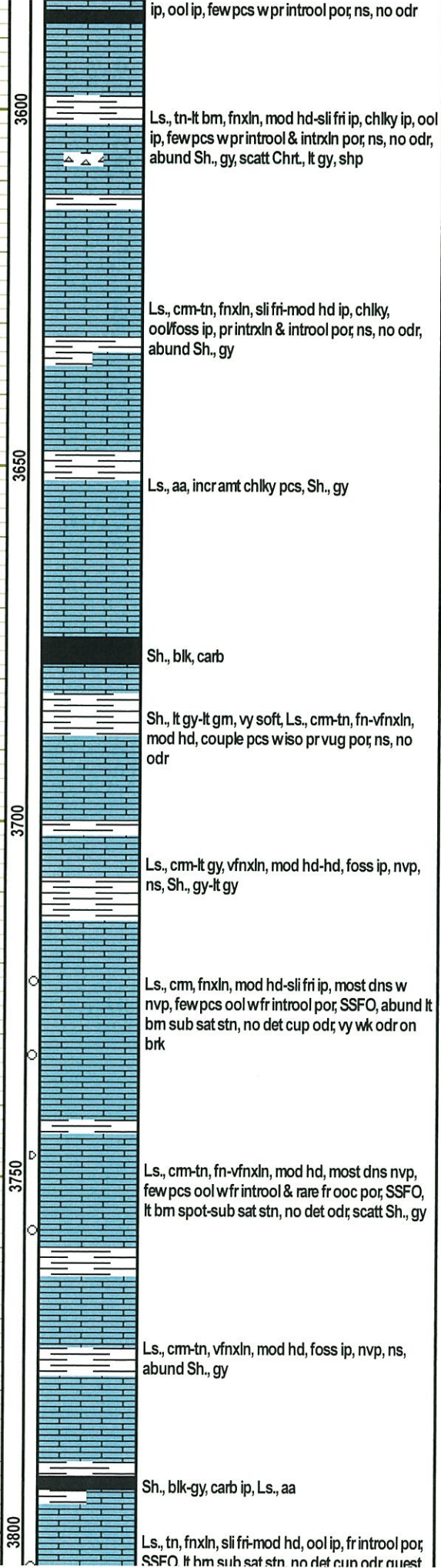


←-----
Heebner
 3674 (-1371)

←-----
Lansing
 3715 (-1412)



Mud @ 3775'
 Wt. 9.1
 Vis. 53
 Filtrate 8.0
 Chlor 6800
 LCM 1#



DST 1 3706-3812 (LKC)

30-30-30-30
 IF: Built to 7"
 IS: No blow
 FF: Built to 4.5"
 FS: No blow

Recovery:
 160' WCM (15%W, 85%M)

FP: 24-78; 82-99
 SIP: 1192-1182
 HP: 1814-1800

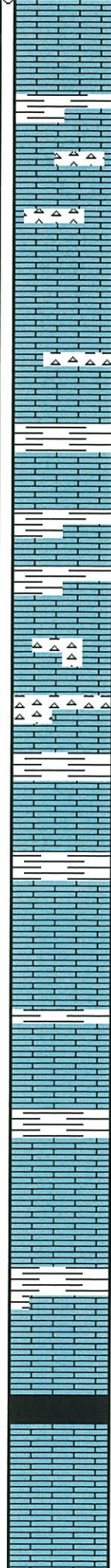
BHT: 104
 Gravity: -
 Chlor: ----



cfs 3812

Mud @3924'
 Wt 9.2
 Vis 53
 Filtrate 10.8
 Chlor 11800
 LCM 1#

3850
 3900
 3950
 4000



odron brk, wk strm cut

Ls., cm, vfnxn, mod hd-sli fri ip, ool ip, few wpr
 introol por, shly infill, ns, no odr, scatt Sh., gy,
 scatt Chrt, cm-tn, shp, ool ip

Ls., cm, vfnxn, mod hd, mass, dns, nvp, ns,
 scatt Chrt, aa

Ls., cm-tn, vfnxn, mod hd, brittle, couple pcs
 wvy pr intrxn por, ns, no odr, abund Sh.,
 gy-bm

Ls., cm-tn, fn-vfnxn, mod hd-hd, dns, nvp, ns,
 scatt Sh., gy, abund Chrt, tn-lt gy, opq, shp

Ls., aa, abund Sh. gy-bm

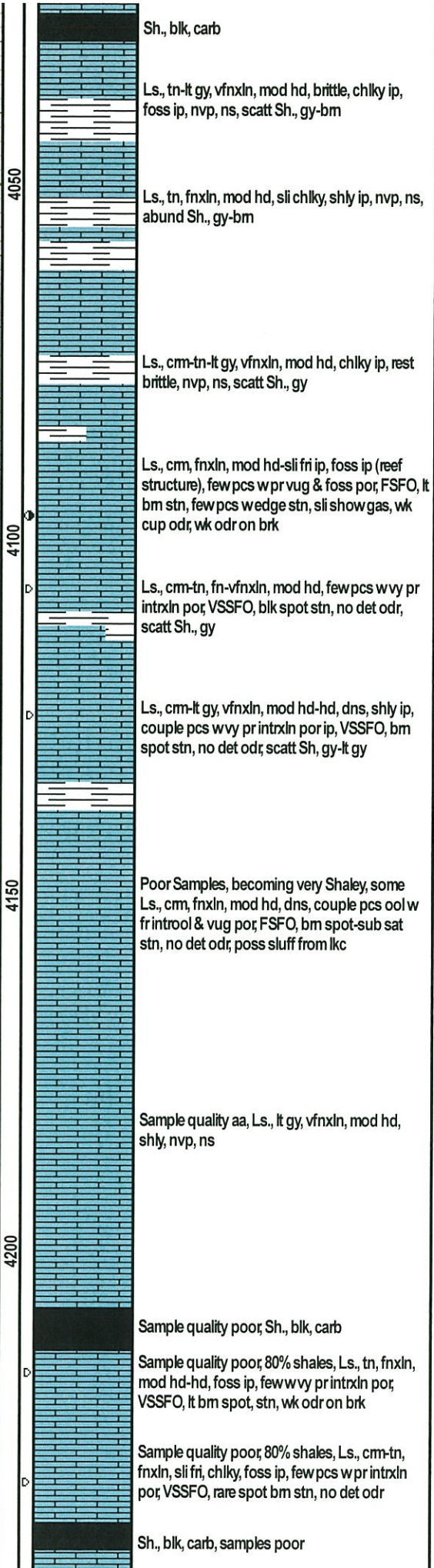
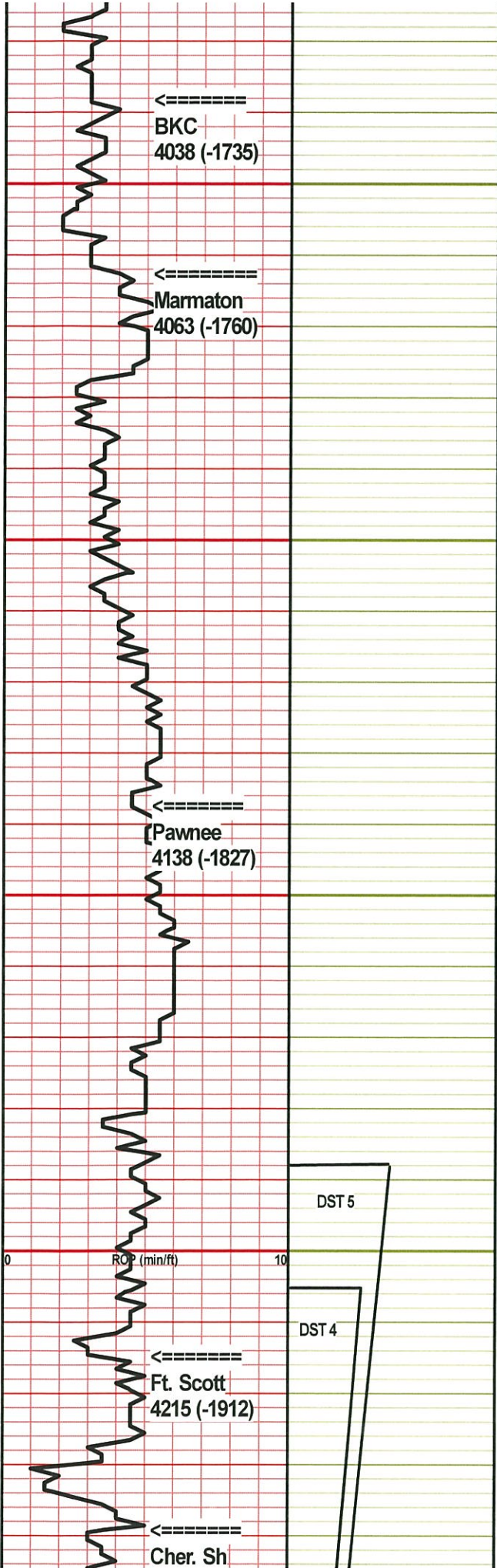
Ls., cm-tn, fnxn, sli fri-soft, vy chlky, ool ip wpr
 introol por, ns, no odr, abund Sh., aa

Ls., cm, vfnxn, mod hd-hd, brittle, chlky ip,
 nvp, ns, Sh., gy-dk gy

Ls., cm-tn, fnxn, sli fri-fri, chlky, vy few pcs wpr
 intrxn por, ns, no odr, abund Sh., aa

Sh., blk, carb

Ls., tn, vfnxn, mod hd-sli fri ip, chlky ip, nvp, ns,
 scatt Chrt, off wht-cm-tn, ool ip, shp



DST 4 4205-4324
(Ft. Scott, Cherokee)
Straddle

Misrun, lower packer failure

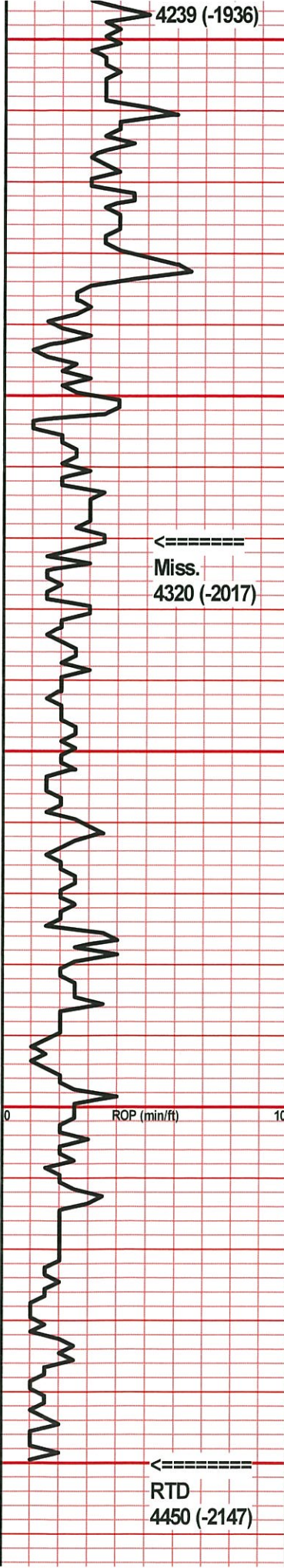
DST5 4188-4529
(Ft. Scott, Cherokee)
Straddle

15-15-15-15
 IF: Built to 2.5"
 IS: No blow
 FF: 1"
 FS: No blow

Recovery:
 70' WCM w oil spots (20%W, 80%M)

FP: 84-103; 106-116
 SIP: 883-890
 HP: 2174-2168

BHT: 110
 Gravity: --
 Chlor: ---



4239 (-1936)

cfs 4275
short trip 10
stds

Mud @4330'
Wt. 9.6
Vis. 66
Filtrate 8.8
Chlor 9900
LCM Tr

cfs 4317

DST 2

DST 3

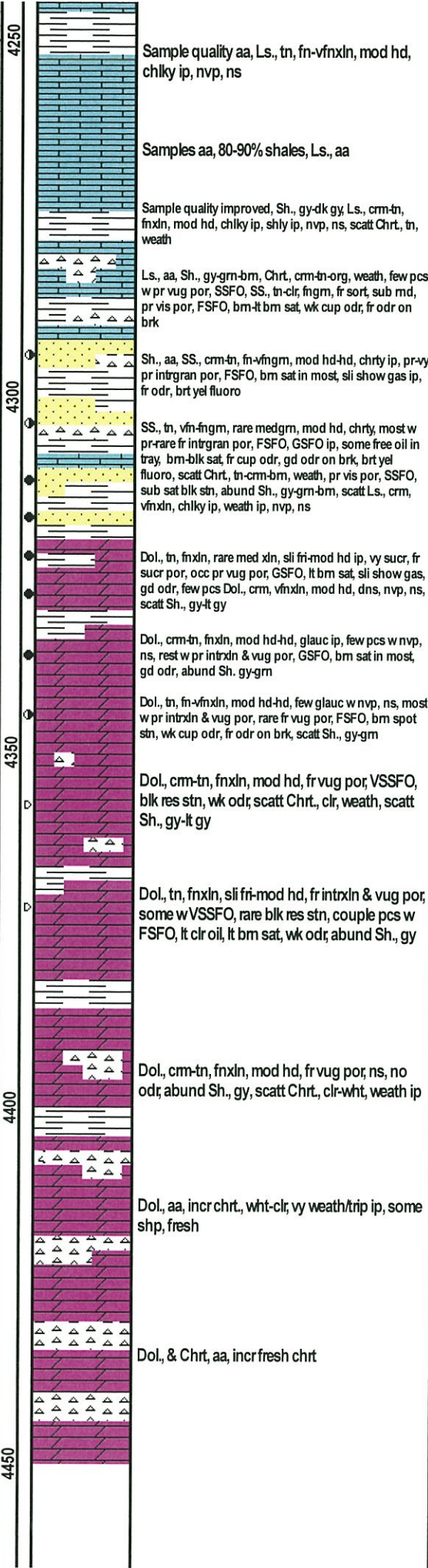
cfs 4330

cfs 4340

cfs 4352

ROP (min/ft)

RTD
4450 (-2147)



Sample quality aa, Ls., tn, fn-vfnxn, mod hd, chly ip, nvp, ns

Samples aa, 80-90% shales, Ls., aa

Sample quality improved, Sh., gy-dk gy, Ls., crm-tn, fnxn, mod hd, chly ip, shly ip, nvp, ns, scatt Chrt, tn, weath

Ls., aa, Sh., gy-grm-bm, Chrt, crm-tn-org, weath, few pcs w pr vug por, SSFO, SS., tn-clr, fngm, fr sort, sub md, pr vis por, FSFO, bm-lt bm sat, wk cup odr, fr odr on brk

Sh., aa, SS., crm-tn, fn-vfngm, mod hd-hd, chrty ip, pr-vy pr intrgran por, FSFO, bm sat in most, sli show gas ip, fr odr, brt yel fluoro

SS., tn, vfn-fngm, rare medgrn, mod hd, chrty, most w pr-rare fr intrgran por, FSFO, GSFO ip, some free oil in tray, bm-blk sat, fr cup odr, gd odr on brk, brt yel fluoro, scatt Chrt, tn-crm-bm, weath, pr vis por, SSFO, sub sat blk stn, abund Sh., gy-grm-bm, scatt Ls., crm, vfnxn, chly ip, weath ip, nvp, ns

Dol., tn, fnxn, rare med xln, sli fri-mod hd ip, vy suc, fr suc por, occ pr vug por, GSFO, lt bm sat, sli show gas, gd odr, few pcs Dol., crm, vfnxn, mod hd, dns, nvp, ns, scatt Sh., gy-lt gy

Dol., crm-tn, fnxn, mod hd-hd, glauc ip, few pcs w nvp, ns, rest w pr intrxn & vug por, GSFO, bm sat in most, gd odr, abund Sh. gy-grm

Dol., tn, fn-vfnxn, mod hd-hd, few glauc w nvp, ns, most w pr intrxn & vug por, rare fr vug por, FSFO, bm spot stn, wk cup odr, fr odr on brk, scatt Sh., gy-grm

Dol., crm-tn, fnxn, mod hd, fr vug por, VSSFO, blk res stn, wk odr, scatt Chrt., clr, weath, scatt Sh., gy-lt gy

Dol., tn, fnxn, sli fri-mod hd, fr intrxn & vug por, some w VSSFO, rare blk res stn, couple pcs w FSFO, lt clr oil, lt bm sat, wk odr, abund Sh., gy

Dol., crm-tn, fnxn, mod hd, fr vug por, ns, no odr, abund Sh., gy, scatt Chrt, clr-wht, weath ip

Dol., aa, incr chrt., wht-clr; vy weath/trip ip, some shp, fresh

Dol., & Chrt, aa, incr fresh chrt

DST #2 4321-4330 (Mississippian)
30-30-30-30
IF: WSB, built to 1"
IS: No blow
FF: WSB, built to SB
FS: No blow

Recovery:
20' OCM (2%O, 98%M)

FP: 18-23; 25-28
SIP: 227-155
HP: 2193-2180

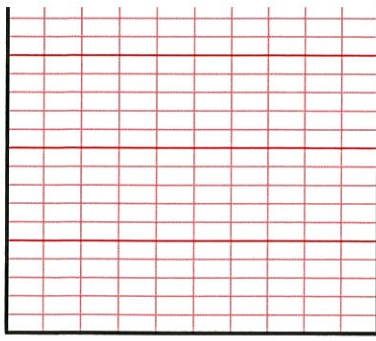
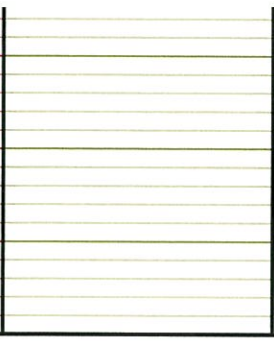
BHT: 114
Gravity: -
Chlor: ---

DST #3 4328-4352 (Mississippian)
30-30-30-30
IF: BOB in 6 min
IS: No blow
FF: BOB in 6 min
FS: No blow

Recovery:
1' CO (100%O)
839' MCW (2%M, 98%W)
840' TF

FP: 42-202; 211-388
SIP: 1326-1326
HP: 2200-2167

BHT: 126
Gravity: -
Chlor: 21000

		00			
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