

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	COBERLY-HEARN 1
Doc ID	1461850

All Electric Logs Run

Sonic
Compensated Density/Neutron PE
Micro
Dual Induction

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

Tops

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

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

RECEIVED

MAR 15 2019

Invoice

Date	Invoice #
3/13/2019	0013360

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

P.O. No.	Terms	Project
COBERLY-HEM#1	Due on receipt	

Quantity	Description	Rate	Amount
255	60/40 POZMIX CEMENT	13.75	3,506.25
9	BENTONITE GEL	30.00	270.00
63.75	FLO-SEAL	2.00	127.50
264	HANDLING	1.90	501.60
	BULK MILEAGE	750.00	750.00
1	TRI-PLEX PUMP CHARGE FOR PLUG	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		
	GOVE CO SALES TAX	8.50%	0.00

Thank you for your business.

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

Total \$6,329.10

GLOBAL OIL FIELD SERVICES, LLC

0013360

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell

DATE <u>3-9-19</u>	SEC <u>31</u>	TWP. <u>19s</u>	RANGE <u>27w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Cob-dy-Horn</u>	WELL# <u>1</u>	LOCATION <u>Pack 22 miles south</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)		<u>1/2 East N. 24</u>					

CONTRACTOR W.W. Drilling Rig #24

TYPE OF JOB Blk

HOLE SIZE 13 3/4" T.D. 4450

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 Palomina Petroleum

CEMENT AMOUNT ORDERED 255x 60/40
4% gel x 4 flo-seal

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK # 417 CEMENTER Jason

BULK TRUCK # 379 DRIVER Kris

BULK TRUCK # _____ DRIVER _____

REMARKS:

1st-150x - 2600ft

2nd-100x - 1000ft

3rd-50x - 275ft

4th-10x - 40ft - water

Rest hole- 30x

Mouse hole- 15x

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Palomina Petroleum

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

8 3/4 wiper plug _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

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 Mylo Salinas

SIGNATURE Mylo Salinas

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

RECEIVED
MAR 05 2019

Invoice

Date	Invoice #
3/4/2019	0013392

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

P.O. No.	Terms	Project
COBERY-HEARN#1	Due on receipt	

Quantity	Description	Rate	Amount
160	COMMON CEMENT	16.50	2,640.00
6	CALCIUM-CHLORIDE	80.00	480.00
3	BENTONITE GEL	30.00	90.00
169	HANDLING	1.90	321.10
	BULK MILEAGE	760.00	760.00
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
	GOVE CO SALES TAX	8.50%	0.00

Thank you for your business.

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

Total	\$5,464.85
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GLOBAL OIL FIELD SERVICES, LLC

0013392

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>2-28-19</u>	SEC. <u>31</u>	TWP. <u>14S</u>	RANGE <u>27W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>2:15 pm</u>
LEASE <u>Coberly-Hearn</u>	WELL.# <u>1</u>	LOCATION <u>22 mi South of Park KS 1 East</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)			<u>Nothing</u>				

CONTRACTOR WW Drilling Rig A 24

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 7/8 DEPTH 223

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 25

PERFS

DISPLACEMENT

EQUIPMENT

OWNER Palomina Petroleum

CEMENT AMOUNT ORDERED 160 sks com 3% cc
2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

PUMP TRUCK # 409 CEMENTER Coody

BULK TRUCK # 411 HELPER Tony

BULK TRUCK # DRIVER Sean

BULK TRUCK # DRIVER

REMARKS:
Run casing + Lj + hooked to Rig + broke
circulation + hooked to truck + pumped 160 sks
of cement + displaced 12 1/4 bbls of H2O
+ shut in.

Cement did circulate to surface

CHARGE TO: Palomina Petroleum Co.

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

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.

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

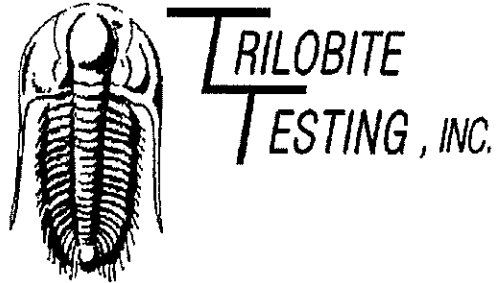
PRINTED NAME Myke Salinas

SIGNATURE Myke Salinas

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: Jerry Smith

Coberly-Hearn #1

31-14s-27w Gove,KS

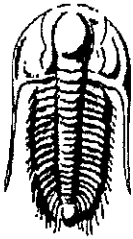
Start Date: 2019.03.05 @ 22:03:00

End Date: 2019.03.06 @ 08:20:45

Job Ticket #: 65195 DST #: 1

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

Printed: 2019.03.11 @ 11:10:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

4924 SE 84th St
New ton, KS 67114

ATTN: Jerry Smith

31-14s-27w Gove,KS

Coberly-Hearn #1

Job Ticket: 65195 DST#: 1

Test Start: 2019.03.05 @ 22:03:00

GENERAL INFORMATION:

Formation: **LKC H-1**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:19:30

Time Test Ended: 08:20:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **3869.00 ft (KB) To 3930.00 ft (KB) (TVD)**

Total Depth: 3930.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2521.00 ft (KB)

2511.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 92.97 psig @ 3870.00 ft (KB)

Start Date: 2019.03.05

End Date:

2019.03.06

Capacity:

8000.00 psig

Last Calib.:

2019.03.06

Start Time: 22:08:05

End Time:

08:25:45

Time On Btm:

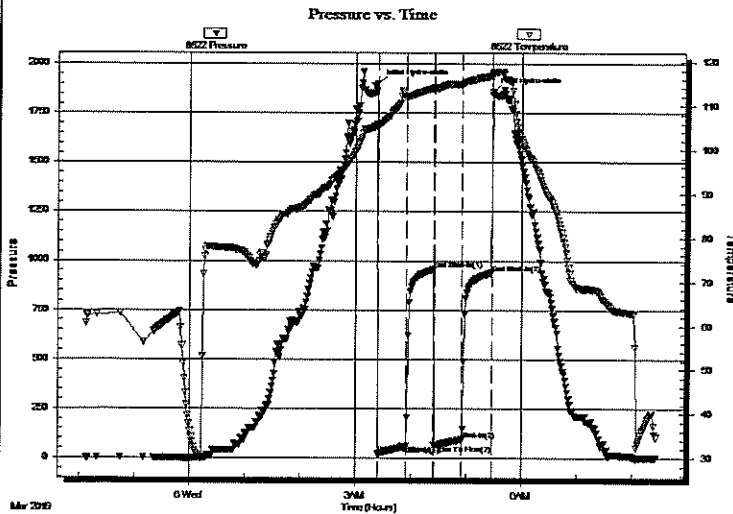
2019.03.06 @ 03:23:45

Time Off Btm:

2019.03.06 @ 05:29:00

TEST COMMENT: IF: 5" blow.
ISI: No return.
FF: 3 1/2" blow.
FSI: No return.

PRESSURE SUMMARY



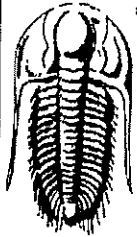
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.01	105.80	Initial Hydro-static
1	20.62	105.47	Open To Flow (1)
32	57.81	111.99	Shut-In(1)
61	956.19	114.02	End Shut-In(1)
62	63.05	113.85	Open To Flow (2)
92	92.97	114.90	Shut-In(2)
124	939.02	116.84	End Shut-In(2)
126	1858.24	117.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	WCM 35%W 65%M	0.74

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

31-14s-27w Gove, KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65195

DST#: 1

ATTN: Jerry Smith

Test Start: 2019.03.05 @ 22:03:00

GENERAL INFORMATION:

Formation: **LKC H - I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:19:30

Time Test Ended: 08:20:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **3869.00 ft (KB) To 3930.00 ft (KB) (TVD)**

Total Depth: 3930.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2521.00 ft (KB)

2511.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 3870.00 ft (KB)

Start Date: 2019.03.05 End Date: 2019.03.06

Start Time: 22:08:05 End Time: 08:25:45

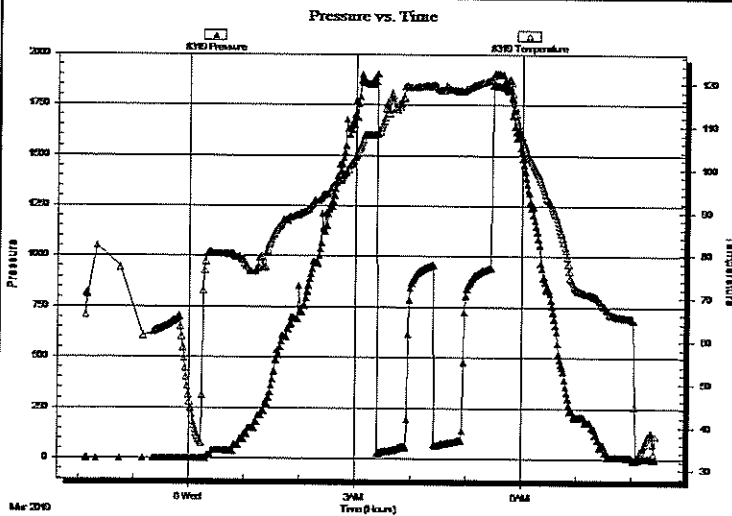
Capacity: 8000.00 psig

Last Calib.: 2019.03.06

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 5" blow.
IS: No return.
FF: 3 1/2" blow.
FSI: No return.



PRESSURE SUMMARY

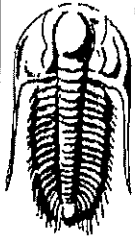
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
150.00	WCM 35%W 65%M	0.74

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

31-14s-27w Gove, KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65195

DST#: 1

ATTN: Jerry Smith

Test Start: 2019.03.05 @ 22:03:00

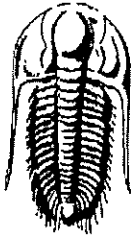
Tool Information

Drill Pipe:	Length: 3400.00 ft	Diameter: 3.80 inches	Volume: 47.69 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: 470.00 ft	Diameter: 2.25 inches	Volume: 2.31 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 50.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3869.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.00 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			3843.00	
Shut In Tool	5.00		Fluid	3848.00	
Hydraulic tool	5.00			3853.00	
Jars	5.00			3858.00	
Safety Joint	2.00			3860.00	
Packer	5.00		Inside	3865.00	27.00 Bottom Of Top Packer
Packer	4.00			3869.00	
Stubb	1.00			3870.00	
Recorder	0.00	8522	Inside	3870.00	
Recorder	0.00	8319	Outside	3870.00	
Perforations	24.00			3894.00	
Change Over Sub	1.00			3895.00	
Drill Pipe	31.00			3926.00	
Change Over Sub	1.00			3927.00	
Bullnose	3.00			3930.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

31-14s-27w Gove,KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65195

DST#: 1

ATTN: Jerry Smith

Test Start: 2019.03.05 @ 22:03:00

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:

33000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	WCM 35%W 65%M	0.738

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .321 @ 46f = 33000 ppm

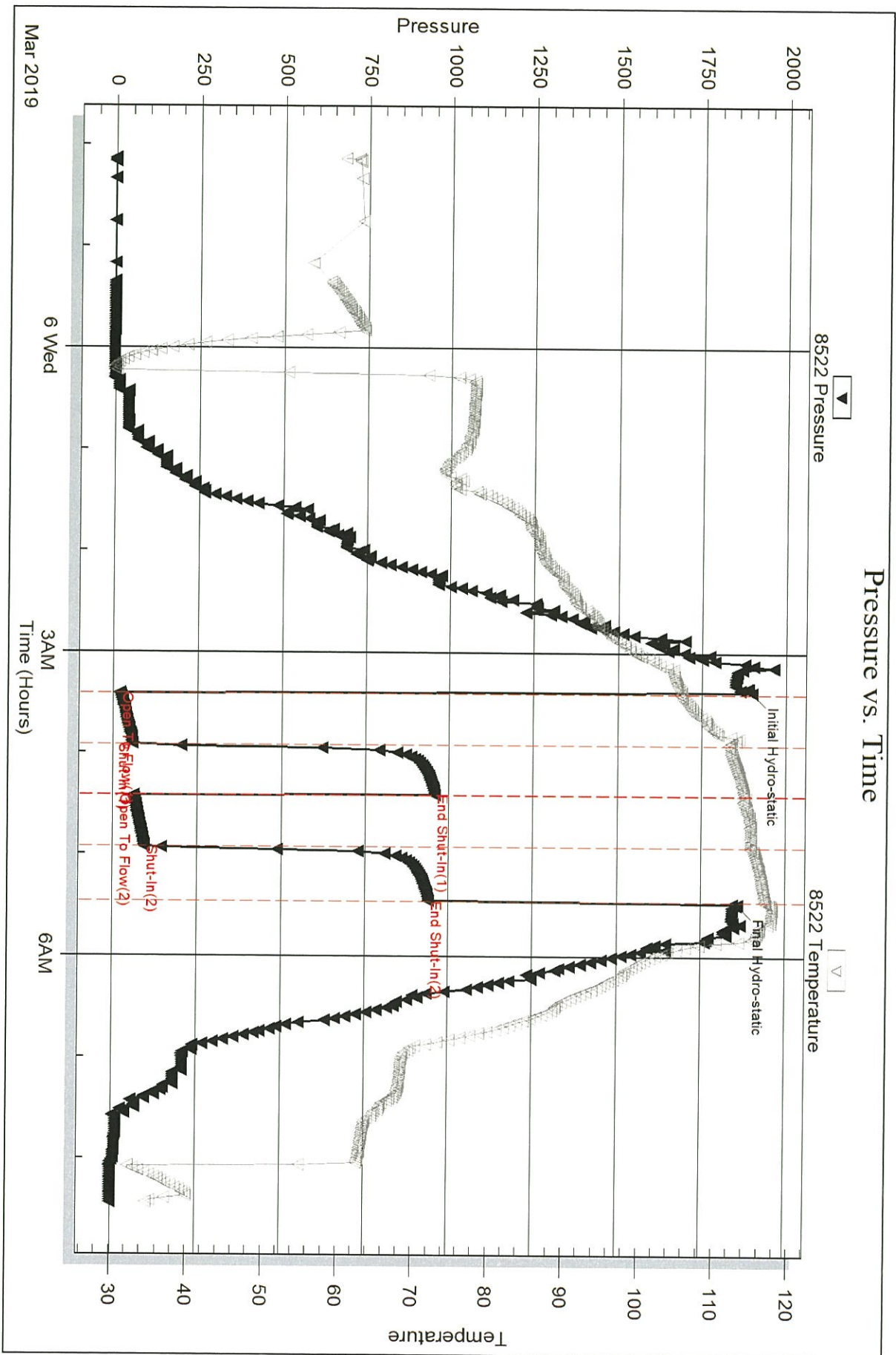
Serial #: 8522

Inside

Palomino Petroleum, Inc

Coberly-Hearn #1

DST Test Number: 1



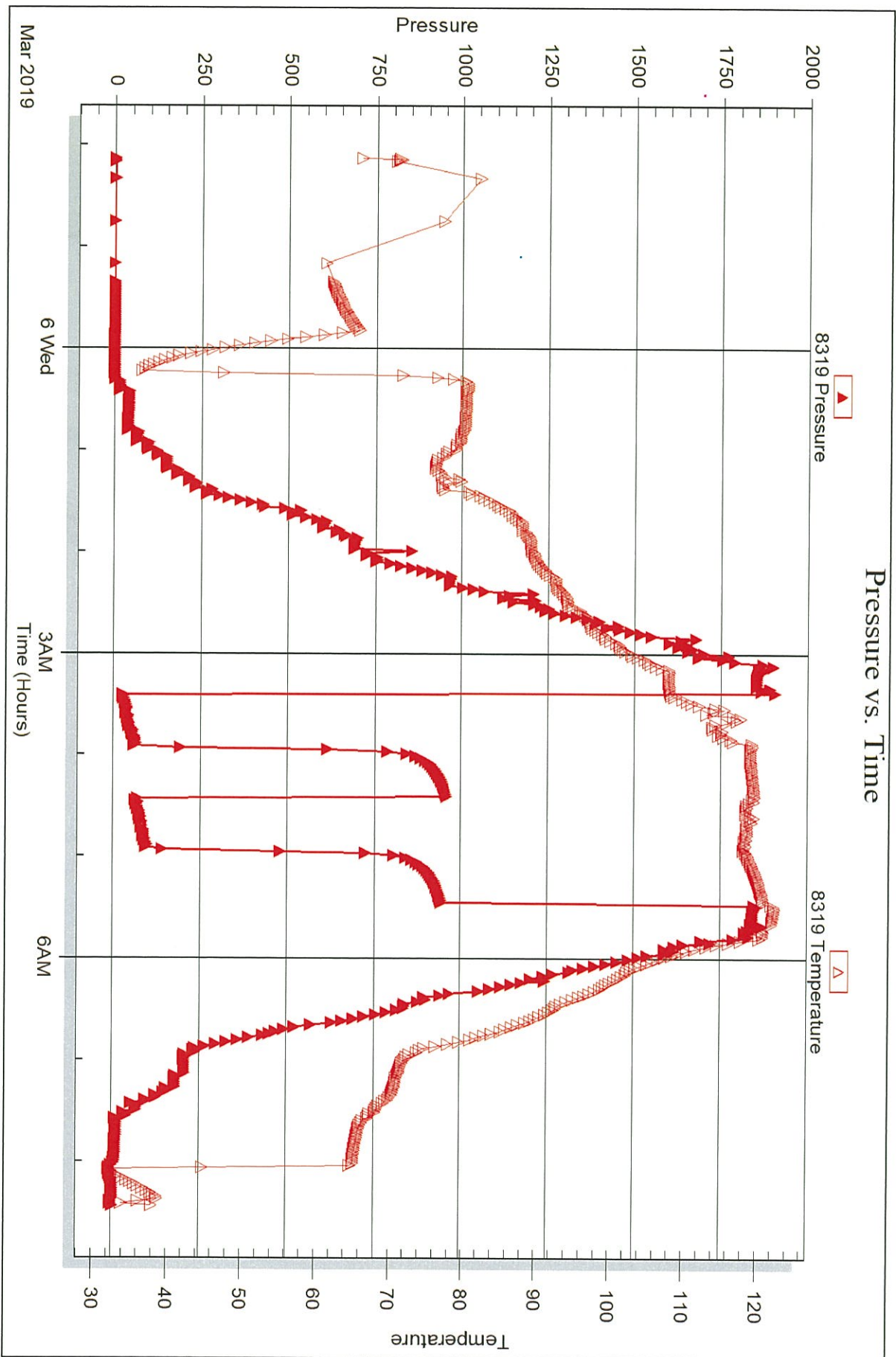
Serial #: 8319

Outside

Palomino Petroleum, Inc

Coberly-Hearn #1

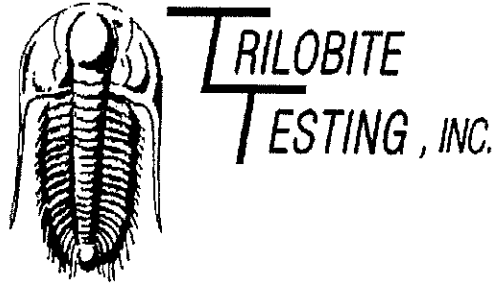
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65195

Printed: 2019.03.11 @ 11:10:36



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Jerry Smith

Coberly-Hearn #1

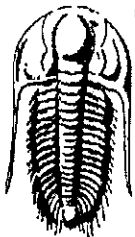
31-14s-27w Gove,KS

Start Date: 2019.03.06 @ 21:34:00

End Date: 2019.03.07 @ 05:47:45

Job Ticket #: 65196 DST #: 2

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

31-14s-27w Gove,KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65196 DST#: 2

ATTN: Jerry Smith

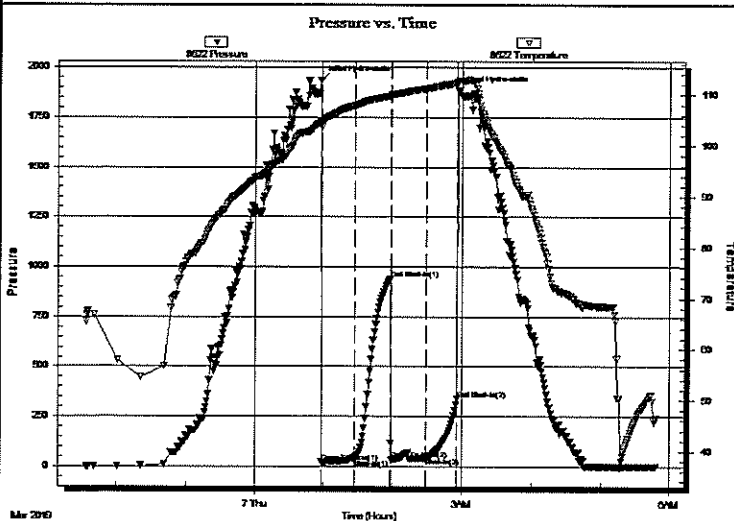
Test Start: 2019.03.06 @ 21:34:00

GENERAL INFORMATION:

Formation: **LKC J - L**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 00:57:45 Tester: Bradley Walter
 Time Test Ended: 05:47:45 Unit No: 78
 Interval: **3932.00 ft (KB) To 4015.00 ft (KB) (TVD)** Reference Elevations: 2521.00 ft (KB)
 Total Depth: 4015.00 ft (KB) (TVD) 2511.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8522 **Inside**
 Press@RunDepth: 41.67 psig @ 3933.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.03.06 End Date: 2019.03.07 Last Calib.: 2019.03.07
 Start Time: 21:34:05 End Time: 05:47:44 Time On Btm: 2019.03.07 @ 00:57:30
 Time Off Btm: 2019.03.07 @ 02:57:45

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.59	104.68	Initial Hydro-static
1	21.24	103.70	Open To Flow (1)
29	34.87	107.87	Shut-In(1)
60	938.14	109.79	End Shut-In(1)
61	34.83	109.67	Open To Flow (2)
91	41.67	111.24	Shut-In(2)
119	338.02	112.41	End Shut-In(2)
121	1886.74	112.79	Final Hydro-static

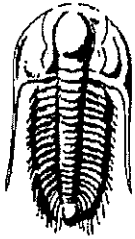
Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM 1%O 99%M	0.15

* 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

31-14s-27w Gove,KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65196

DST#: 2

ATTN: Jerry Smith

Test Start: 2019.03.06 @ 21:34:00

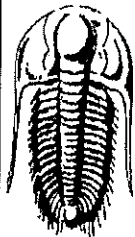
Tool Information

Drill Pipe:	Length: 3460.00 ft	Diameter: 3.80 inches	Volume: 48.53 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: 470.00 ft	Diameter: 2.25 inches	Volume: 2.31 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 50.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3932.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 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			3906.00	
Shut In Tool	5.00		Fluid	3911.00	
Hydraulic tool	5.00			3916.00	
Jars	5.00			3921.00	
Safety Joint	2.00			3923.00	
Packer	5.00		Inside	3928.00	27.00 Bottom Of Top Packer
Packer	4.00			3932.00	
Stubb	1.00			3933.00	
Recorder	0.00	8522	Inside	3933.00	
Recorder	0.00	8319	Outside	3933.00	
Perforations	14.00			3947.00	
Change Over Sub	1.00			3948.00	
Drill Pipe	63.00			4011.00	
Change Over Sub	1.00			4012.00	
Bullnose	3.00			4015.00	83.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

31-14s-27w Gove,KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65196 DST#: 2

ATTN: Jerry Smith

Test Start: 2019.03.06 @ 21:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 4400.00 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
30.00	VSOCM 1%O 99%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

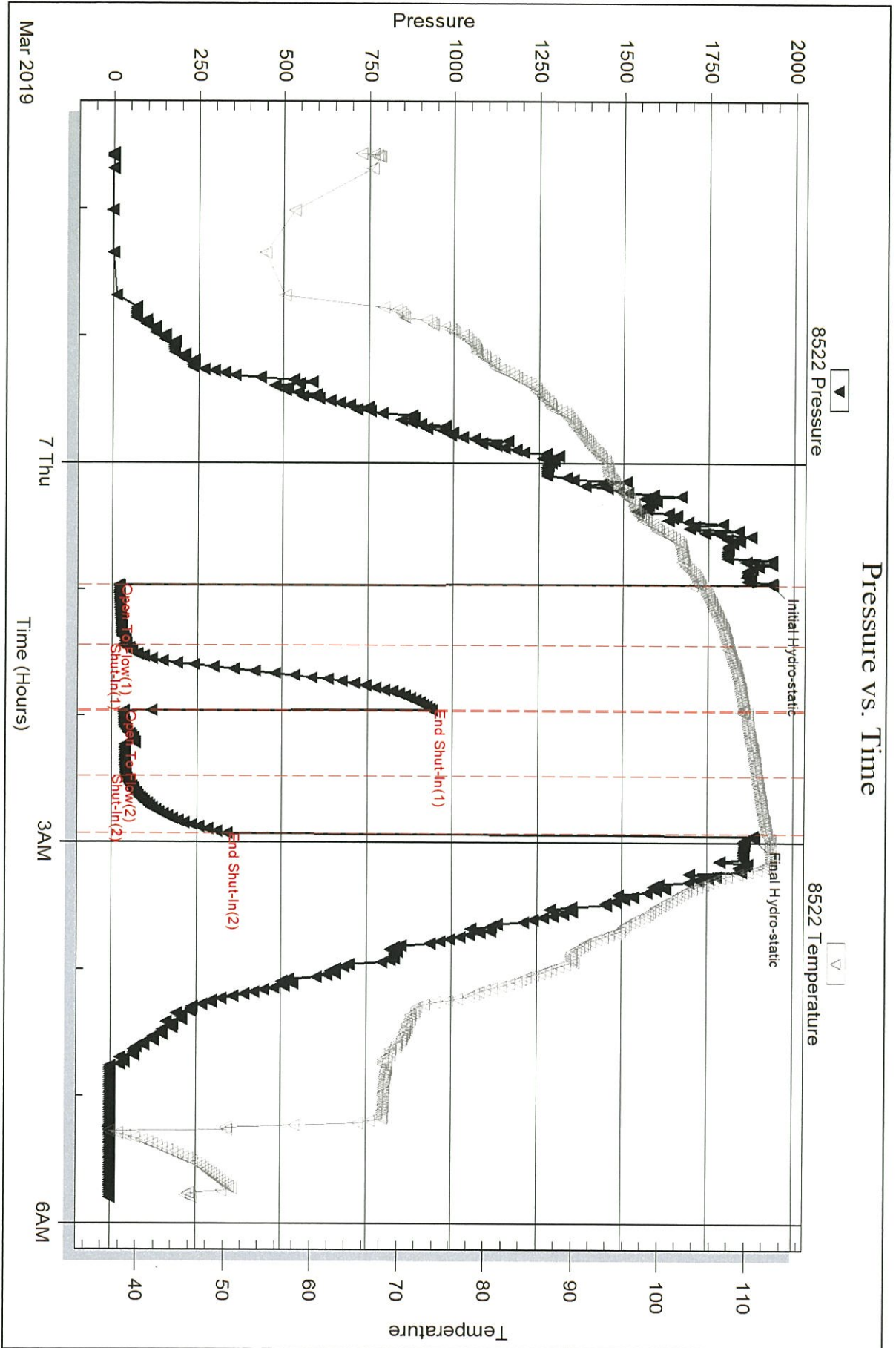
Serial #: 8522

Inside

Palomino Petroleum, Inc

Coberly-Hearn #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65196

Printed: 2019.03.11 @ 10:55:45

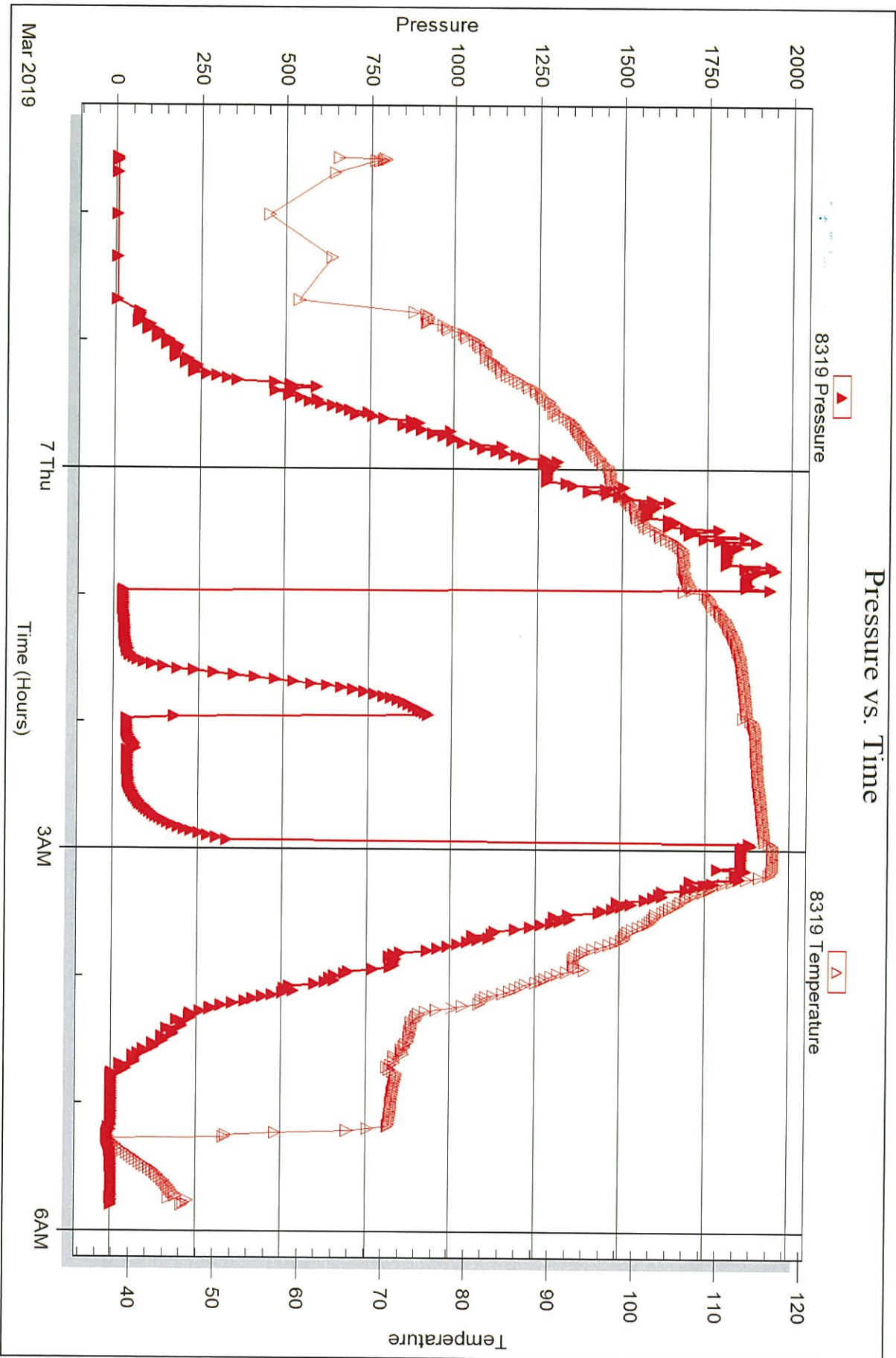
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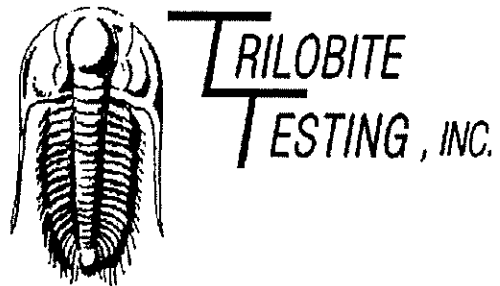
Outside

Palomino Petroleum, Inc

Coberly-Hearn #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Jerry Smith

Coberly-Hearn #1

31-14s-27w Gove,KS

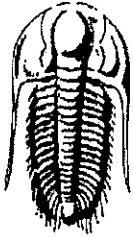
Start Date: 2019.03.08 @ 04:00:16

End Date: 2019.03.08 @ 12:12:46

Job Ticket #: 65157 DST #: 3

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

Printed: 2019.03.11 @ 10:55:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

31-14s-27w Gove, KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65157

DST#: 3

ATTN: Jerry Smith

Test Start: 2019.03.08 @ 04:00:16

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:46

Time Test Ended: 12:12:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4188.00 ft (KB) To 4238.00 ft (KB) (TVD)**

Reference Elevations: 2521.00 ft (KB)

Total Depth: 4238.00 ft (KB) (TVD)

2511.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166

Outside

Press@RunDepth: 20.22 psig @ 4193.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.08

End Date: 2019.03.08

Last Calib.: 2019.03.08

Start Time: 04:00:21

End Time: 12:12:45

Time On Btm: 2019.03.08 @ 07:46:16

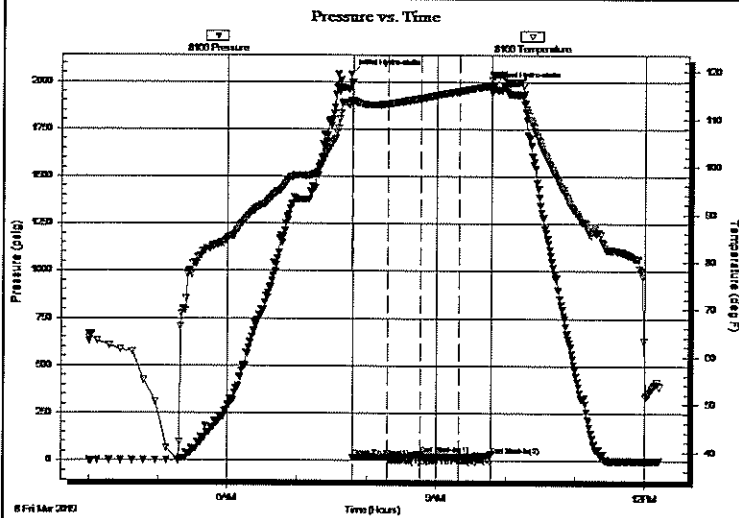
Time Off Btm: 2019.03.08 @ 09:47:46

TEST COMMENT: IF: 1/2" blow built to 1 1/2"

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.71	113.84	Initial Hydro-static
2	16.63	113.56	Open To Flow (1)
32	18.16	113.13	Shut-In(1)
60	30.91	114.30	End Shut-In(1)
60	18.04	114.31	Open To Flow (2)
93	20.22	115.81	Shut-In(2)
121	29.24	117.01	End Shut-In(2)
122	1976.94	119.11	Final Hydro-static

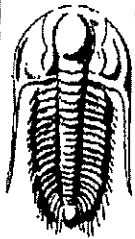
Recovery

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

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc
 4924 SE 84th St
 Newton, KS 67114
 ATTN: Jerry Smith

31-14s-27w Gove, KS

Coberly-Hearn #1

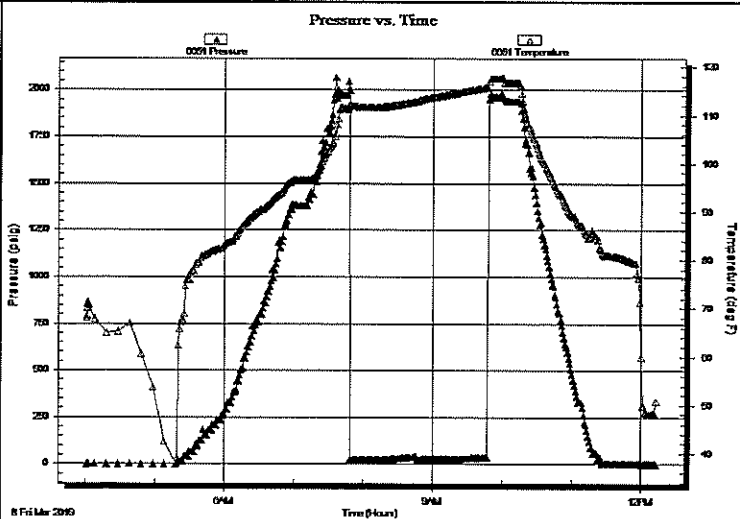
Job Ticket: 65157 DST#: 3
 Test Start: 2019.03.08 @ 04:00:16

GENERAL INFORMATION:

Formation: **Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:47:46 Tester: Brandon Turley
 Time Test Ended: 12:12:46 Unit No: 79
 Interval: **4188.00 ft (KB) To 4238.00 ft (KB) (TVD)** Reference Elevations: 2521.00 ft (KB)
 Total Depth: 4238.00 ft (KB) (TVD) 2511.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 6651 Inside
 Press@RunDepth: psig @ 4193.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.03.08 End Date: 2019.03.08 Last Calib.: 2019.03.08
 Start Time: 04:01:04 End Time: 12:13:28 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/2" blow built to 1 1/2"
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

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

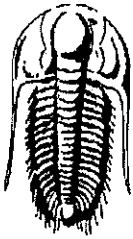
Recovery

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

* 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

31-14s-27w Gove,KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65157

DST#: 3

ATTN: Jerry Smith

Test Start: 2019.03.08 @ 04:00:16

Tool Information

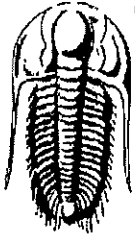
Drill Pipe:	Length: 3711.00 ft	Diameter: 3.80 inches	Volume: 52.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 470.00 ft	Diameter: 2.25 inches	Volume: 2.31 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 54.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4188.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4166.00	
Shut In Tool	5.00			4171.00	
Hydraulic tool	5.00			4176.00	
Jars	5.00			4181.00	
Safety Joint	2.00			4183.00	
Packer	5.00			4188.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			4192.00	
Stubb	1.00			4193.00	
Recorder	0.00	6651	Inside	4193.00	
Recorder	0.00	8166	Outside	4193.00	
Perforations	10.00			4203.00	
Change Over Sub	1.00			4204.00	
Drill Pipe	32.00			4236.00	
Change Over Sub	1.00			4237.00	
Bullnose	5.00			4242.00	54.00 Anchor Tool

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

31-14s-27w Gove,KS

4924 SE 84th St
New ton, KS 67114

Coberly-Hearn #1

Job Ticket: 65157

DST#: 3

ATTN: Jerry Smith

Test Start: 2019.03.08 @ 04:00:16

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 8.79 in³

Resistivity: 0.00 ohm.m

Salinity: 4000.00 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
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

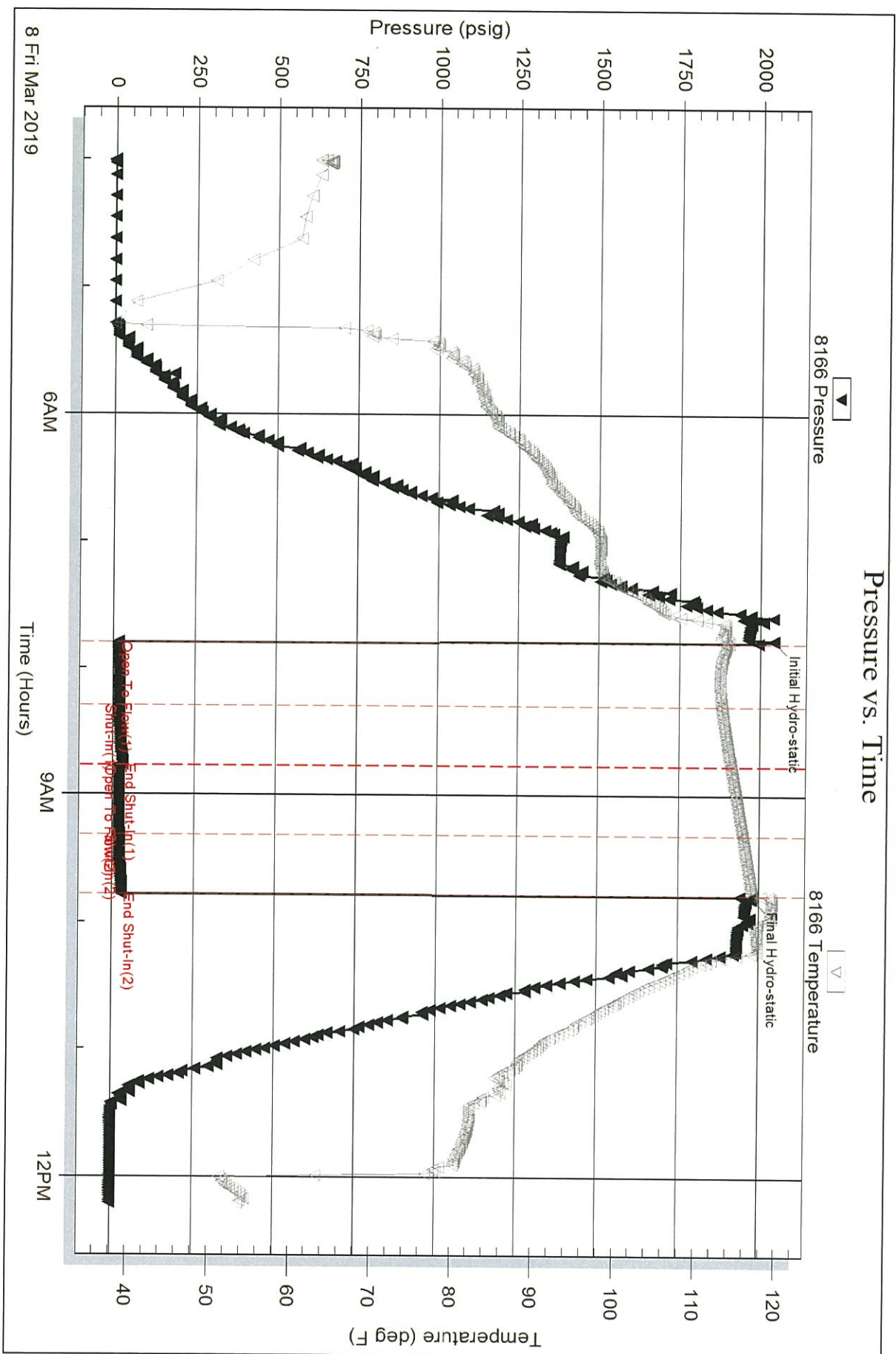
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



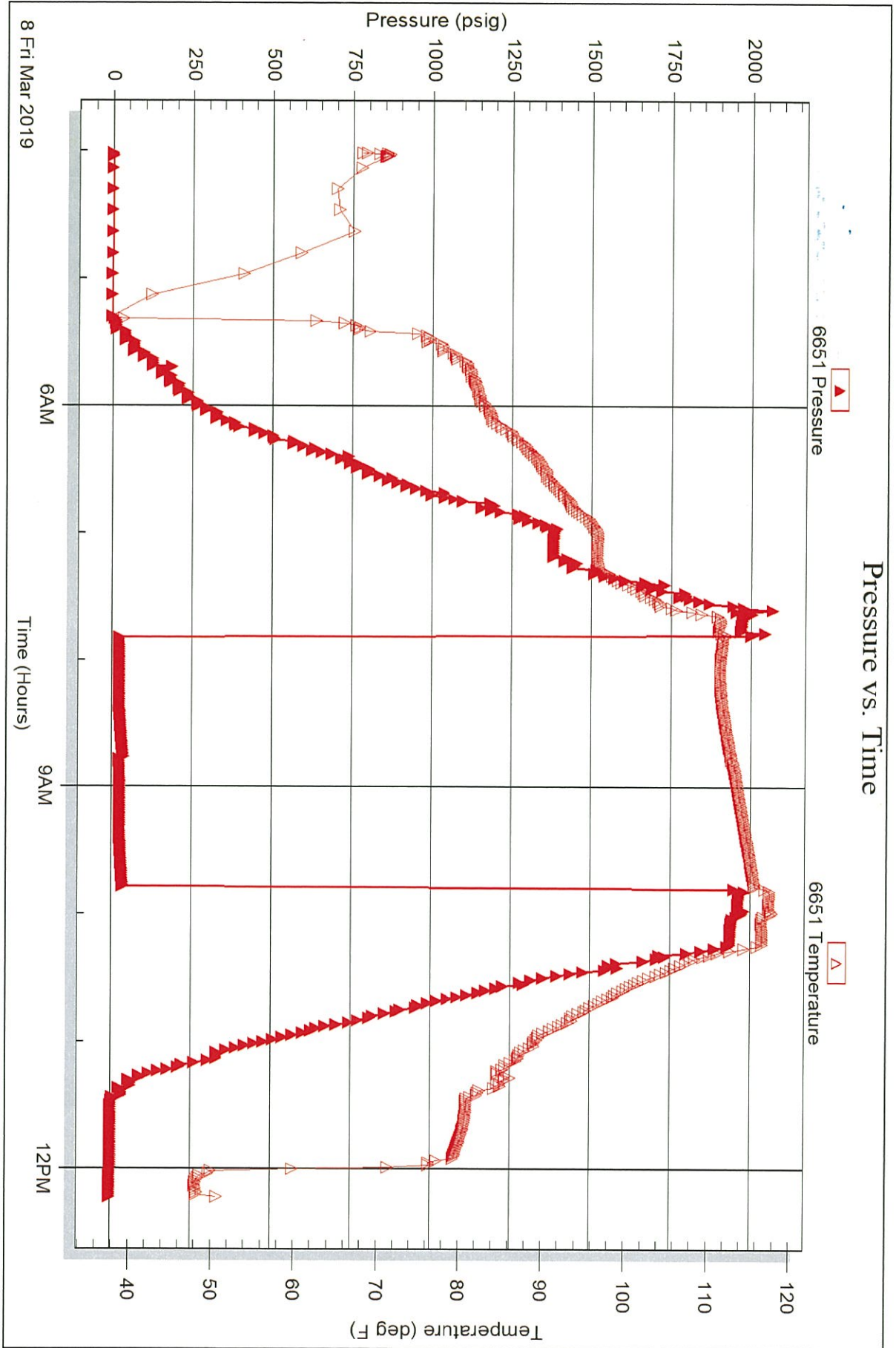
Serial #: 6651

Inside

Palomino Petroleum, Inc

Coberly-Hearn #1

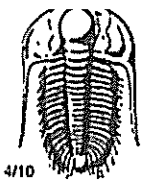
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 65157

Printed: 2019.03.11 @ 10:55:04



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65195

Well Name & No. Coberly Hearn #1 Test No. 1 Date 3/06/2019
 Company Cober Palomino Petroleum Inc Elevation 2521 KB 2511 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Jerry Smith Rig WW #24
 Location: Sec. 31 Twp N4S Rge. 27W Co. Coxe State KS

Interval Tested 3869-3930 Zone Tested LAC H-I
 Anchor Length 61 Drill Pipe Run 3400 Mud Wt. 8.9
 Top Packer Depth 3864 Drill Collars Run 470 Vls 55
 Bottom Packer Depth 3869 Wt. Pipe Run 0 WL 7.2
 Total Depth 3930 Chlorides 4000 ppm System LCM 1#

Blow Description IF 5" blow
IST No return
FF 3 1/2" blow
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>WCM</u>			<u>35</u>	<u>65</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

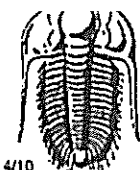
Rec Total 150 BHT 116 Gravity — API RW 321 @ 46 °F Chlorides 33,000 ppm

(A) Initial Hydrostatic 1898 Test 1200 T-On Location 1900
 (B) First Initial Flow 21 Jars 250 T-Started 2203
 (C) First Final Flow 58 Safety Joint 75 T-Open 0328
 (D) Initial Shut-In 956 Circ Sub _____ T-Pulled 0526
 (E) Second Initial Flow 63 Hourly Standby _____ T-Out 0826
 (F) Second Final Flow 93 Mileage 110 RT 110 Comments _____
 (G) Final Shut-In 939 Sampler _____
 (H) Final Hydrostatic 1858 Straddle _____

Initial Open 30 Shale Packer 250 EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 30 Day Standby _____ Extra Copies _____
 Sub Total 1885 Accessibility _____ Sub Total 1885 MP/DST Disc'l _____

Approved By _____ Our Representative [Signature]

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



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65196

Well Name & No. Coberly-Hearn #1 Test No. 2 Date 3/07/2019
 Company Palomino Petroleum, Inc Elevation 2521 KB 2511 GL
 Address 4974 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Jerry Smolt Rig _____
 Location: Sec. 31 Twp 14S Rge. 27W Co. Gove State KS

Interval Tested 3932-4015 Zone Tested LKC J, K & L
 Anchor Length 83 Drill Pipe Run 3460 Mud Wt. 9.2
 Top Packer Depth 3927 Drill Collars Run 470 Vis 60
 Bottom Packer Depth 3932 Wt. Pipe Run 0 WL 8.0
 Total Depth 4015 Chlorides 4400 ppm System LCM 1#
 Blow Description IF 1' blow
ISI No return.
EF 1' blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>05m</u>		<u>1</u>		<u>99</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 30 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1937</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>2100</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2134</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0100</u>
(D) Initial Shut-In <u>938</u>	<input checked="" type="checkbox"/> Circ Sub _____	T-Pulled <u>0300</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0548</u>
(F) Second Final Flow <u>42</u>	<input checked="" type="checkbox"/> Mileage <u>110 RT 110</u>	Comments _____
(G) Final Shut-In <u>338</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1887</u>	<input type="checkbox"/> Straddle _____	_____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Ruined Packer _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Accessibility _____	Sub Total <u>0</u>
	Sub Total <u>1885</u>	Total <u>1885</u>

MP/DST Dist [Signature]

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65157

Well Name & No. Coberly - Herrin #1 Test No. 3 Date 3-8-19
 Company Palomino Petroleum Inc Elevation 2521 KB 2511 GL
 Address _____
 Co. Rep / Geo. Jerry Smith Rig WW #24
 Location: Sec. 31 Twp 14 Rge. 27W Co. Gove State KS

Interval Tested 4188 4238 Zone Tested Ft. Scott
 Anchor Length 50 Drill Pipe Run 3711 Mud Wt. 9.2
 Top Packer Depth 4183 Drill Collars Run 470 Vis 56
 Bottom Packer Depth 4188 Wt. Pipe Run _____ WL 8.8
 Total Depth 4238 Chlorides 4000 ppm System LCM 1

Blow Description IF: 1/2 blow built to 1 1/2,
IS: No return,
FF: No blow,
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</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 5 BHT 117 Gravity _____ API RW _____ @ _____ Chlorides _____ ppm
 (A) Initial Hydrostatic 2040 Test 1300 T-On Location 3:05
 (B) First Initial Flow 16 Jars 250 T-Started 4:00
 (C) First Final Flow 18 Safety Joint 75 T-Open 7:47
 (D) Initial Shut-In 30 Circ Sub NIC T-Pulled 9:47
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 12:14
 (F) Second Final Flow 20 Mileage 110-X2 220 Comments _____
 (G) Final Shut-In 29 Sampler _____ loaded tools 3/9 13:09
 (H) Final Hydrostatic 1976 Straddle _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 30 Accessibility _____
 Sub Total 2095 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged or destroyed 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.



JERRY A. SMITH

CERTIFIED PETROLEUM GEOLOGIST

GEOLOGIST'S REPORT DRILLING TIME and SAMPLE LOG

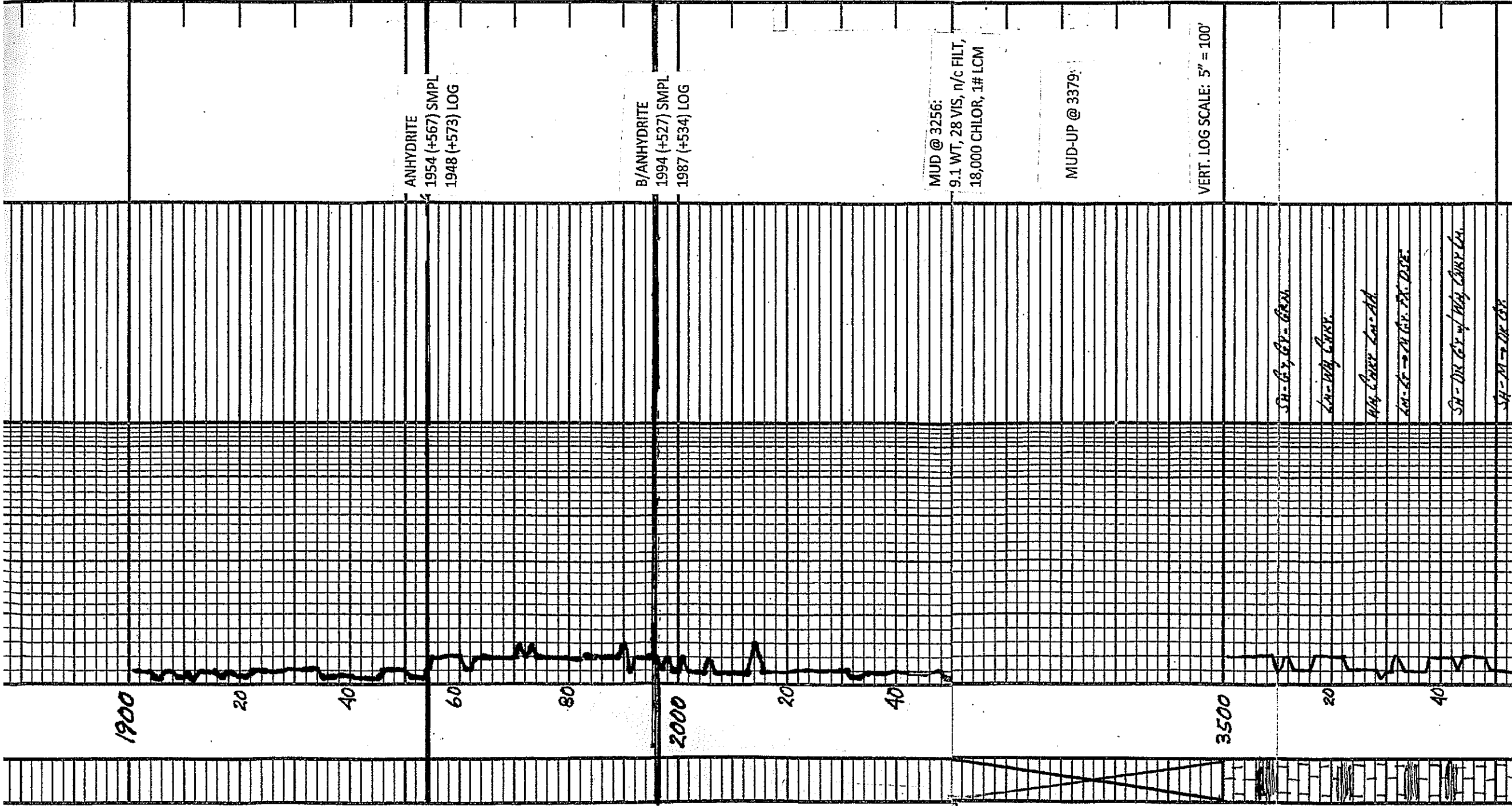
COMPANY: PALOMINO PETROLEUM, INC		ELEVATIONS
LEASE: COBERLY - HEARN #1		K.B. 2521
FIELD: LEIGHTON SOUTHEAST		D.F.
LOCATION: 147' FSL & 1729' FEL		G.L. 2511
SEC. 31	TWSP. 14	RNG.27W
COUNTY: GOVE		STATE: KANSAS
		Measurements Are All From: KB
CONTRACTOR: WW DRLG. RIG #24		CASING
SPUD: 2/27/2019	COMP. 3/09/2019	SURFACE: 8 5/8" @ 223'
RTD. 4450	LTD. 4450	PRODUCTION: P&A
MUD UP: 3379	TYPE MUD: CHEMICAL	
API No. 15-063-22349		ELECTRICAL SURVEYS ELI: CDL/CNL/PE, DIL, MEL, SONIC
SAMPLES SAVED FROM: 3500		TO: RTD
DRILLING TIME KEPT FROM: 1900/3500		TO: 2050/RTD
SAMPLES EXAMINED FROM: 3500		TO: RTD
GEOLOGICAL SUPERVISOR FROM: 3250		TO: RTD
GEOLOGIST ON WELL: JERRY A. SMITH		

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1948 (+573)	1954 (+567)
B/ANHYDRITE	1987 (+534)	1994 (+527)
HEEBNER	3672 (-1151)	3674 (-1153)
TORONTO	3695 (-1174)	3695 (-1174)
LANSING	3710 (-1189)	3710 (-1189)
STARK	3956 (-1435)	3958 (-1437)
B/KANSAS CITY	4010 (-1489)	4010 (-1489)
PAWNEE	4110 (-1589)	4118 (-1597)
FT. SCOTT	4210 (-1689)	4212 (-1691)
CHEROKEE	4236 (-1715)	4234 (-1713)
MISSISSIPPIAN	4315 (-1794)	4317 (-1796)

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Col.Lime
- Chert
- Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration increases 	SAMPLE DESCRIPTIONS 	REMARKS NO GAS DETECTOR DST's (3) BY TRILOBITE MUD BY MUD-CO S.H.T.'s: 3930' 3/4" 4238' 1"
DEPTH 5" 10" 15" 20" 25"		



ANHYDRITE
1954 (+567) SMPL
1948 (+573) LOG

B/ANHYDRITE
1994 (+527) SMPL
1987 (+534) LOG

MUD @ 3256:
9.1 WT, 28 VIS, n/c FILT,
18,000 CHLOR, 1# LCM

MUD-UP @ 3379:

VERT. LOG SCALE: 5" = 100'

SH - GR. CR. CLAY

LA - GR. CLAY

LA - GR. CLAY

LA - GR. CLAY

SH - GR. CR. CLAY

SH - GR. CR. CLAY

1900

20

40

60

80

2000

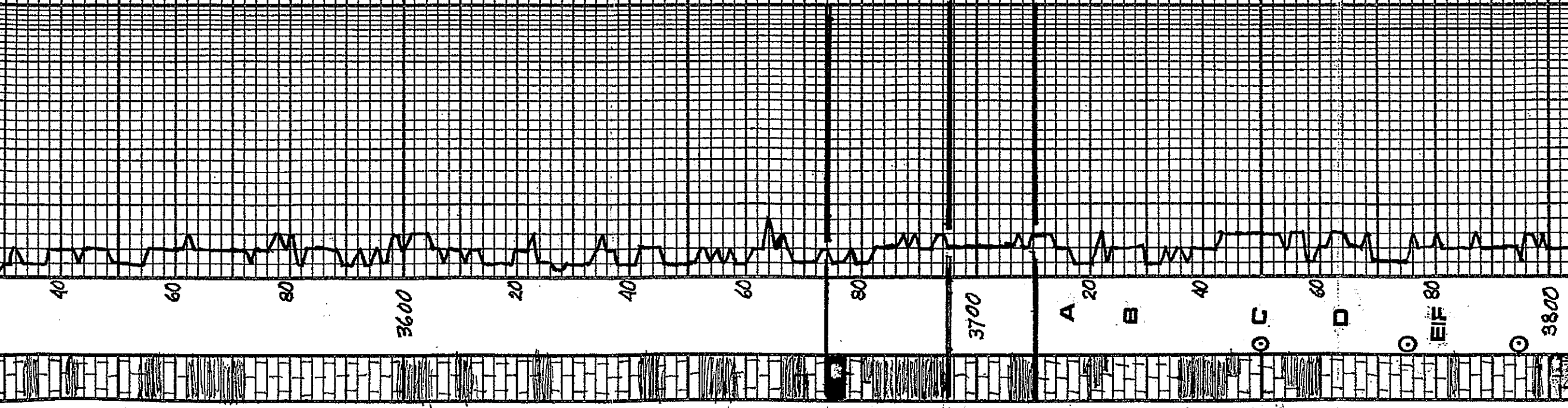
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3500

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LM-67 → DR EX. DSE

SH-DR 67 w/ May CURRY LM.

SH-M → DR EX.

LM-67 → M EX. DSE
SCAFFOLD CUR.

Log of MR CUR-AA.

ARR M → DR EX. SH.

LM-67 EX. DSE →
CURRY

LM-67 AA- V CURRY, ARR
M → DR EX. SH.

LM-67 EX. V CURRY

LM-67 AA. V CURRY

LM-67 AA. V CURRY w/ ARR
M → DR EX. SH.

LM-67 EX. V CURRY

LM-67 EX. EX. DSE.

SH-67-ARR. M.G. LM-67 AA.
SH-BLK. CURR.

LM-67 EX. EX. DSE.

LM-67 AA.

SH-DR 67 EX. ARR.

SAMPLES PAIR- VARIOUS
SH-67, DSE 67.

SAMP- AA.

SAMP. V. TINY PEG.

SAMP. V. TINY PEG- VARIOUS
SH-67, DSE 67.

VARIOUS SH.

LM-67 EX. EX. DSE → CURRY

LM-67 AA.

LM-67 → M EX. EX.
DSE w/ ARR. CURRY.

LM-67 EX. EX. DSE. No Vis. φ
w/ ARR. CURRY. SH. CURR.

LM-67 EX. EX. DSE. No Vis. φ
w/ ARR. CURRY. SH. CURR.

LM-67 AA. No Vis. φ. AS.

LM-67 EX. EX. DSE →

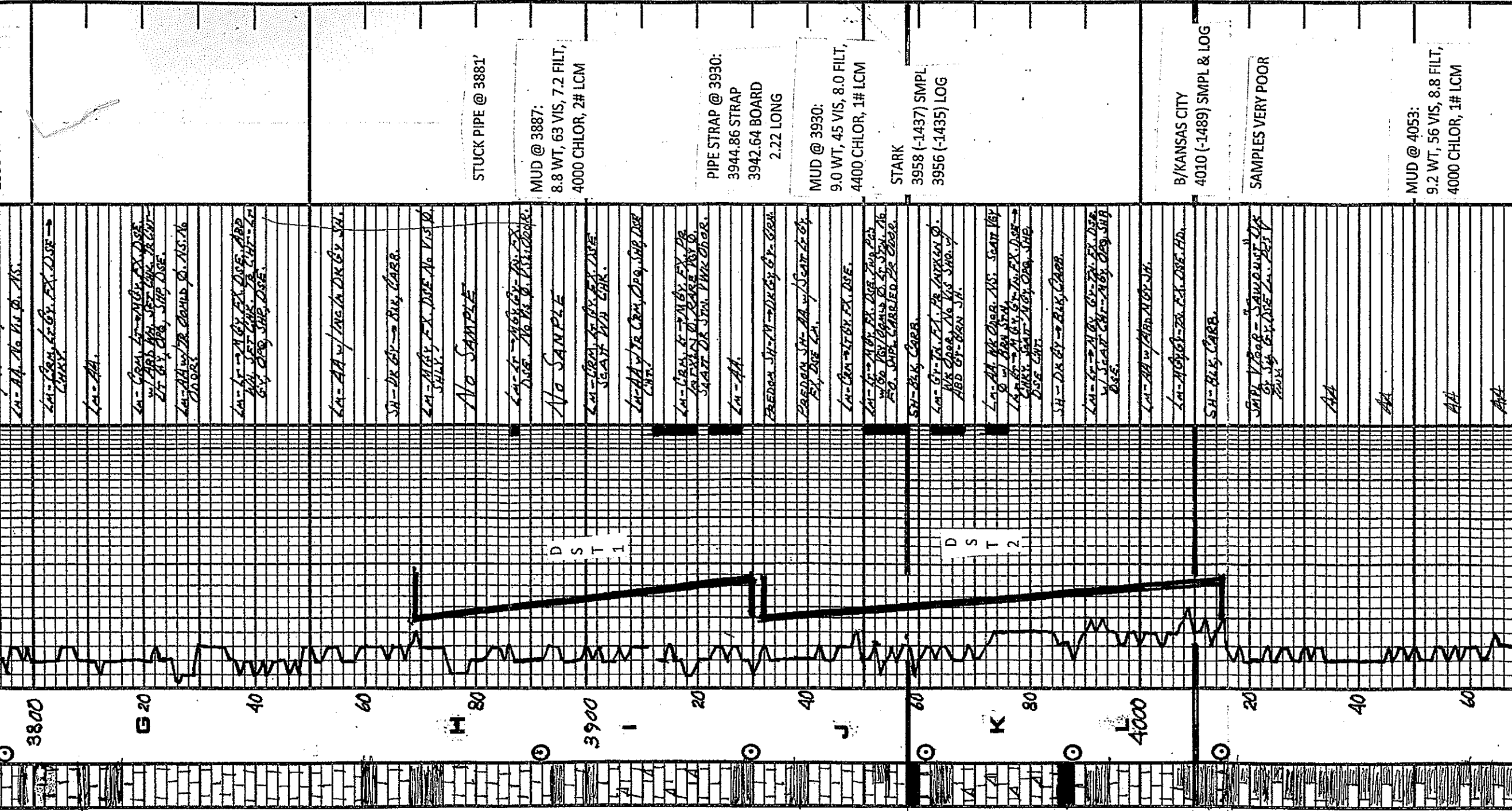
HEEBNER
3674 (-1153) SMPL
3672 (-1151) LOG

TORONTO
3695 (-1174) SMPL & LOG

LANSING
3710 (-1189) SMPL & LOG

3700: SAMPLES VERY POOR
3750: CUT PUMP PRESS.
BACK TO 550#
3760: SAMPLES CLEANED UP

MUD @ 3789:
9.1 WT, 56 VIS, 7.2 FILT,
2300 CHLOR, 2# LCM



LA-AA No Vis. S.
 LA-CRM, L-GRY, EX. DSE → CHRY.
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 LA-CRM, L-GRY, EX. DSE. / CR. M. SET FOR R. L. W. / ST. GY. CR. SUB. DSE.
 LA-AA w/ 2R. DOWNS. Q. N.S. 16 DORS.
 LA-L- → A-GY, EX. DSE. / ABB. / M. SET FOR R. L. W. / ST. GY. CR. SUB. DSE.
 LA-AA w/ ING. LA. DR. GY. SH.
 SH-DR. GY. → BIL. CARR.
 LA-AA w/ EX. DSE. 16 VIS. Q. SHAY.
 No SAMPLE
 LA-L- → M. GY. → BIL. CARR. / DSE. No Vis. Q. / No Sample.
 No SAMPLE
 LA-CRM, L-GRY, EX. DSE. / SEAT. W. CR.
 LA-AA w/ CR. DSE. SUB. DSE. / CHRY.
 LA-CRM, L-GRY, EX. DSE. / CR. M. SET FOR R. L. W. / ST. GY. CR. SUB. DSE. / SEAT. DR. STAN. YNR. CR. OR.
 LA-AA.
 BREDON SH-M → DR. GY. GY. GRN.
 BREDON SH-AA w/ SEAT. GY. / EX. DSE. LA.
 LA-CRM → L-GRY, EX. DSE.
 LA-L- → A-GY, EX. DSE. / CR. M. SET FOR R. L. W. / ST. GY. CR. SUB. DSE. / SEAT. DR. STAN. YNR. CR. OR. / 50. SHIP. CARRIED. CR. OR.
 SH-BIL. CARR.
 LA-GY → J. LA. EX. DSE. / CR. M. SET FOR R. L. W. / ST. GY. CR. SUB. DSE. / ABB. GY. GRN. SH.
 LA-AA. BIL. CARR. N.S. SEAT. KEY / Q. W. CR. M. SET FOR R. L. W. / ST. GY. CR. SUB. DSE. / CR. M. SET FOR R. L. W. / ST. GY. CR. SUB. DSE. / SEAT. DR. STAN. YNR. CR. OR. / DSE. CHRY.
 SH-DR. GY. → BIL. CARR.
 LA-L- → A-GY, EX. DSE. / CR. M. SET FOR R. L. W. / ST. GY. CR. SUB. DSE. / SEAT. DR. STAN. YNR. CR. OR. / DSE. CHRY.
 LA-AA w/ CR. DSE. SUB. DSE. / CHRY.
 LA-AA w/ CR. DSE. SUB. DSE. / CHRY.
 SH-BIL. CARR.
 SHAY. V. CR. → SAWH. CR. / GY. CR. EX. DSE. LA. / BIL. CARR.

STUCK PIPE @ 3881'

MUD @ 3887:
8.8 WT, 63 VIS, 7.2 FILT,
4000 CHLOR, 2# LCM

PIPE STRAP @ 3930:
3944.86 STRAP
3942.64 BOARD
2.22 LONG

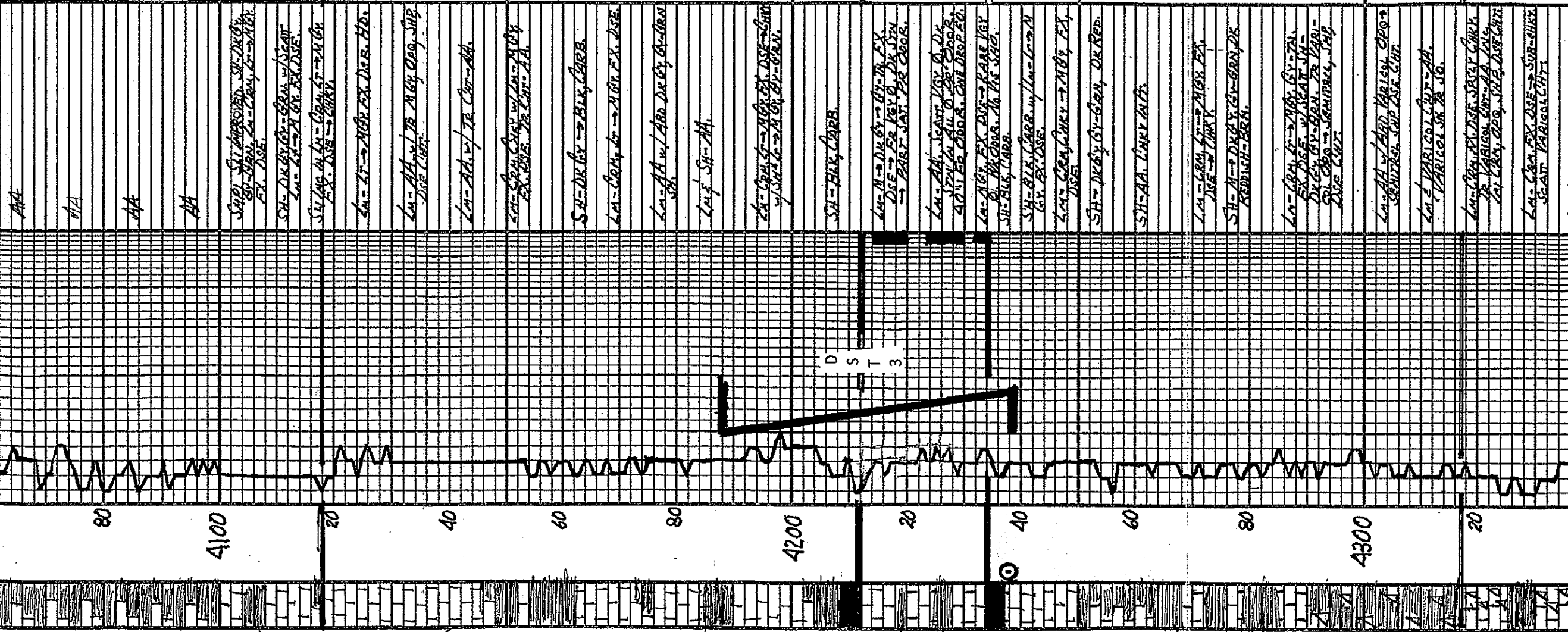
MUD @ 3930:
9.0 WT, 45 VIS, 8.0 FILT,
4400 CHLOR, 1# LCM

STARK
3958 (-1437) SMPL
3956 (-1435) LOG

B/KANSAS CITY
4010 (-1489) SMPL & LOG

SAMPLES VERY POOR

MUD @ 4053:
9.2 WT, 56 VIS, 8.8 FILT,
4000 CHLOR, 1# LCM



CUT PUMP PRESS.
BACK TO 700#

PAWNEE
4118 (-1597) SMPL
4110 (-1589) LOG

FT. SCOTT
4212 (-1691) SMPL
4210 (-1689) LOG

CHEROKEE
4234 (-1713) SMPL
4236 (-1715) LOG

MUD @ 4238:
9.0 WT, 45 VIS, 7.2 FILT,
3500 CHLOR, 2# LCM

MISSISSIPPIAN
4317 (-1796) SMPL
4315 (-1794) LOG

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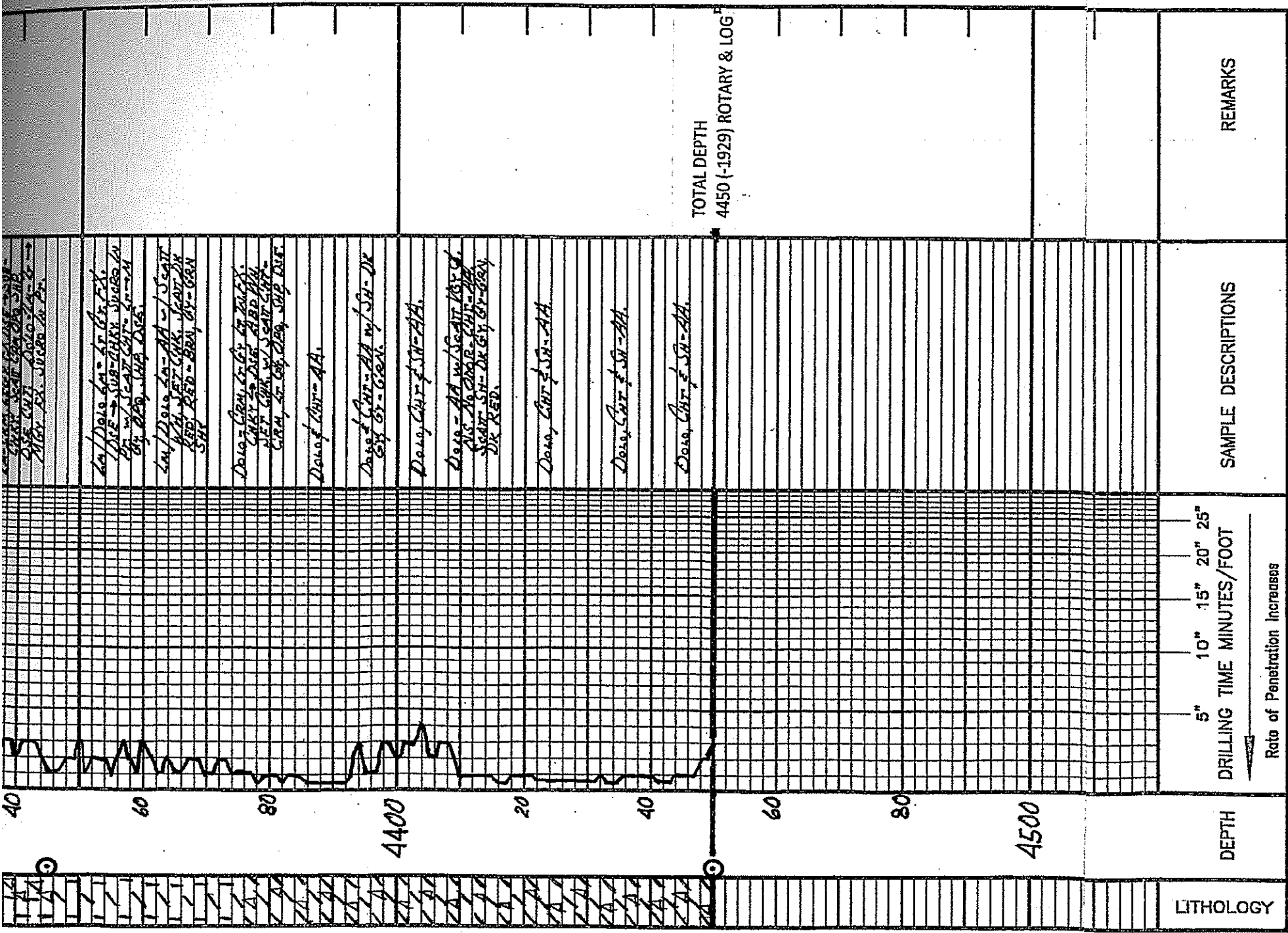
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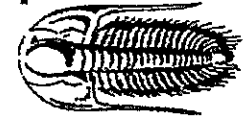
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COMPANY: PALOMINO PETROLEUM, INC.		ELEVATION: 2521 KB	
LEASE: COBERLY-HEARN #1			
LOCATION: 147' FSL & 1729' FEL	SEC 31	TWP 14	RGE 27W
COUNTY: GOVE	STATE: KS		



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc
 4924 SE 84th St
 Newton, KS 67114
 ATTN: Jerry Smith

31 14s 27w Gove, Ks
 Coberly-Hearn #1
 Job Ticket: 65195
 Test Start: 2019.03.05 @ 22:03:00
 DST#: 1

Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Waller
 Unit No: 78

Reference Elevations:
 2521.00 ft (KB)
 2511.00 ft (CF)
 10.00 ft
 KB to GR/CF:

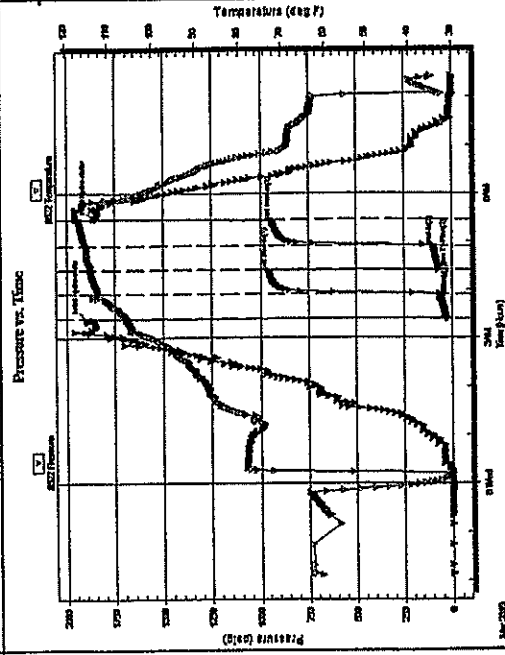
Deviated: No Whipstock
 Time Tool Opened: 03:19:30
 Time Test Ended: 08:20:45

Interval: 3869.00 ft (KB) To 3930.00 ft (KB) (TVD)
 Total Depth: 3930.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Capacity: 8000.00 psig
 Last Calib.: 2019.03.06
 Time On Blirt: 2019.03.06 @ 03:23:45
 Time Off Blirt: 2019.03.06 @ 05:29:00

Serial #: 8522 Inside
 Press@RunDepth: 92.97 psig @ 3870.00 ft (KB)
 Start Date: 2019.03.05 End Date:
 Start Time: 22:08:05 End Time:

TEST COMMENT: F: 5" blow.
 IS: No return.
 FF: 3 1/2" blow.
 FSt: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.01	105.80	Initial Hydro-static
1	20.62	105.47	Open To Flow (1)
32	57.81	111.99	Shut-In(1)
61	956.19	114.02	End Shut-In(1)
62	63.05	113.85	Open To Flow (2)
92	92.97	114.90	Shut-In(2)
124	939.02	116.84	End Shut-In(2)
126	1858.24	117.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 35w 65m	0.74

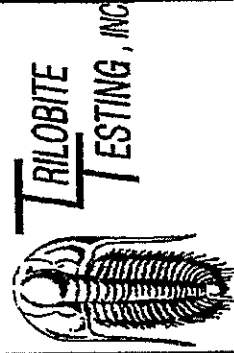
Gas Rates

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

Triobite Testing, Inc

Ref. No: 65195

Printed: 2019.03.06 @ 10:03:45



DRILL STEM TEST REPORT

Palomino Petroleum, Inc
 4924 SE 84th St
 Newton, Ks 67114
 ATTN: Jerry Smith

31 14s 27w Gove, Ks
 Coberly-Hearn #1
 Job Ticket: 65196 DST#: 2
 Test Start: 2019.03.06 @ 21:34:00

GENERAL INFORMATION:

Formation: LKG J,K,L
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 00:57:45
 Time Test Ended: 05:47:45

Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Waller
 Unit No: 78

Interval: 3832.00 ft (KB) To 4015.00 ft (KB) (TVD)
 Total Depth: 4015.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

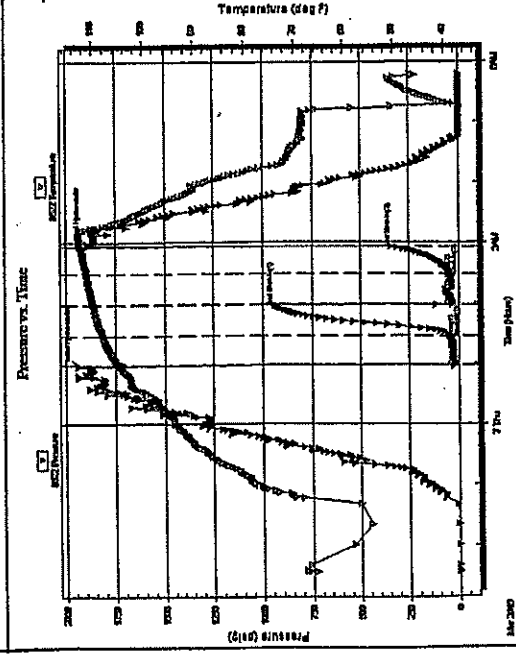
Reference Elevations:
 2521.00 ft (KB)
 2511.00 ft (CF)
 10.00 ft
 KB to GR/CF:

Serial #: 8522 Inside
 Press@RunDepth: 41.67 psig @ 3933.00 ft (KB)
 Start Date: 2019.03.06 End Date:
 Start Time: 21:34:05 End Time:

Capacity: 8000.00 psig
 Last Calib.: 2019.03.07
 Time On Blirt: 2019.03.07 @ 00:57:30
 Time Off Blirt: 2019.03.07 @ 02:57:45

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

30- FF: 1" blow.
30- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.59	104.68	Initial Hydro-static
1	21.24	103.70	Open To Flow (1)
29	34.87	107.87	Shut-in(1)
60	938.14	109.79	End Shut-in(1)
61	34.83	109.67	Open To Flow (2)
91	41.67	111.24	Shut-in(2)
119	338.02	112.41	End Shut-in(2)
121	1886.74	112.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
30.00	osm 1o 89fm	0.15

* Recovery from multiple tests

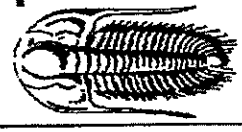
Ref. No: 65196

Trilobite Testing, Inc

Printed: 2019.03.07 @ 07:13:37

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc
4924 SE 84th St
Newton, KS 67114
ATTN: Jerry Smith

31 14s 27w Gove, Ks
Coberly-Hearn #1
Job Ticket: 65157 DST#:3
Test Start: 2019.03.08 @ 04:00:16

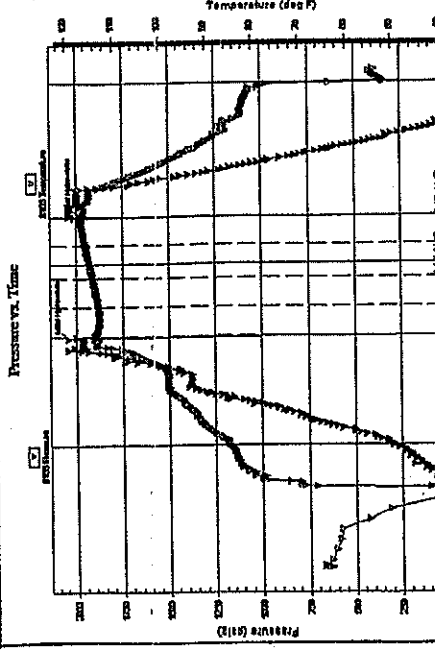
GENERAL INFORMATION:

Formation: Ft Scott
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:47:46
Time Test Ended: 12:12:46
Interval: 4188.00 ft (KB) To 4238.00 ft (KB) (TVD)
Total Depth: 4238.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchestHole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 2521.00 ft (KB)
2511.00 ft (CF)
10.00 ft
KB to GR/CF:

Serial #: 8166
Press@RunDepth: 20.22 psig @ 4193.00 ft (KB)
Start Date: 2019.03.08 End Date:
Start Time: 04:00:21 End Time:

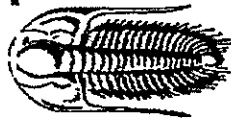
Capacity: 8000.00 psig
Last Calib.: 2019.03.08
Time On Blirt: 2019.03.08 @ 07:46:16
Time Off Blirt: 2019.03.08 @ 09:47:46

TEST COMMENT: IF: 1/2 blow built to 1 1/2.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.71	113.84	Initial Hydro-static
2	16.63	113.56	Open To Flow (1)
32	18.16	113.13	Shut-in(1)
60	30.91	114.30	End Shut-in(1)
60	18.04	114.31	Open To Flow (2)
93	20.22	115.81	Shut-in(2)
121	29.24	117.01	End Shut-in(2)
122	1976.94	119.11	Final Hydro-static



TRIOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc
4924 SE 84th St
Newton, Ks 67114
ATTN: Jerry Smith

31 14s 27w Gove, Ks
Coberly-Hearn #1
Job Ticket: 65157 DST#:3
Test Start: 2019.03.08 @ 04:00:16

GENERAL INFORMATION:

Formation: Ft Scott
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:47:46
Time Test Ended: 12:12:46
Interval: 4188.00 ft (KB) To 4238.00 ft (KB) (TVD)
Total Depth: 4238.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

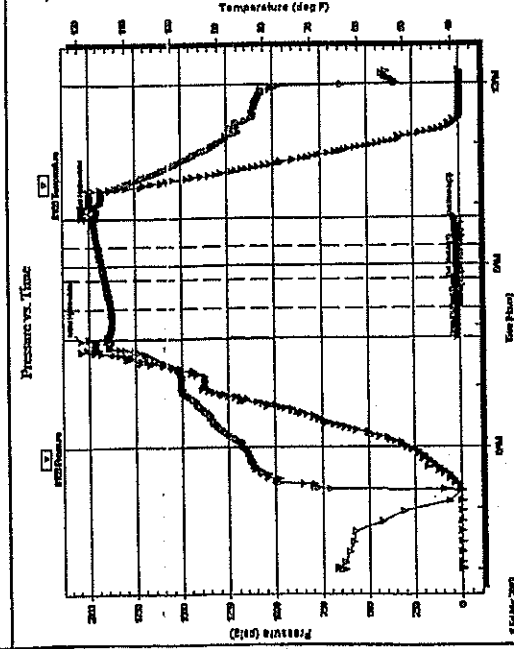
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 2521.00 ft (KB)
2511.00 ft (OF)
10.00 ft
KB to GRCF:

Serial #: 8166 Outside
Press@RunDepth: 20.22 psig @ 4193.00 ft (KB)
Start Date: 2019.03.08 End Date:
Start Time: 04:00:21 End Time:

Capacity: 8000.00 psig
Last Calib.: 2019.03.08
Time On Bltnc: 2019.03.08 @ 07:46:16
Time Off Bltnc: 2019.03.08 @ 09:47:46

TEST COMMENT: IF: 1/2 blow built to 1 1/2.

IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.71	113.84	Initial Hydro-static
2	16.63	113.56	Open To Flow (1)
32	18.16	113.13	Shut-in(1)
60	30.91	114.30	End Shut-in(1)
60	18.04	114.31	Open To Flow (2)
93	20.22	115.81	Shut-in(2)
121	29.24	117.01	End Shut-in(2)
122	1976.94	119.11	Final Hydro-static

Recovery

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

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mscf/D)

* Recovery from multiple tests