

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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)</i> <i>(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	18-3 1
Doc ID	1424683

All Electric Logs Run

Dual Induction
Micro
Borehole Compensated Sonic
Litho Density
Radiation Guard
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	18-3 1
Doc ID	1424683

Tops

Name	Top	Datum
Anhy.	1850	(+ 554)
Base Anhy.	1894	(+ 518)
Heebner	3679	(-1275)
Toronto	3700	(-1296)
LKC	3720	(-1316)
Stark	3950	(-1546)
BKC	4008	(-1604)
Pawnee	4149	(-1745)
Ft. Scott	4212	(-1808)
Cherokee Sh.	4237	(-1833)
Miss.	4310	(-1906)
LTD	4438	(-2034)



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



Invoice

DATE	INVOICE #
7/13/2018	31660

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	18-3	Trego	H-D Oilfield	Oil	Development	Cement 5 1/2 Por...	David K.

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	40	Miles	5.00	200.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars	1	Job	1,300.00	1,300.00
330	Swift Multi-Density Standard (MIDCON II)	175	Sacks	16.25	2,843.75T
276	Flocele	50	Lb(s)	2.50	125.00T
290	D-Air	2	Gallon(s)	42.00	84.00T
105	Port Collar Tool Rental With Man	1	Each	275.00	275.00T
581D	Service Charge Cement	200	Sacks	1.75	350.00
583D	Drayage	399	Ton Miles	0.85	339.15
	Subtotal				5,516.90
	Sales Tax Trego County			8.00%	266.22

We Appreciate Your Business!	Total	\$5,783.12
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Services, Inc.

CHARGE TO: Palomino Phoblem

ADDRESS

CITY, STATE, ZIP CODE

TICKET **031660**

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City 155</u>	WELL/PROJECT NO. <u>#1</u>	LEASE <u>18-3</u>	COUNTY/PARISH <u>Trego</u>	STATE <u>KS</u>	CITY <u>Whica</u>	DATE <u>7-13-18</u>	OWNER <u>Seune</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>H-D Oilfield Service</u>	RIG NAME/NO. <u>#2</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2" Port Collar</u>	WELL LOCATION <u>Whica - 8 1/2" Bay Ench</u>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE			40	mi	5.00	200.00
576 D		1			Trk #115			1	job	1300.00	1300.00
330		1			Pump Charge - Port Collar			175	skts	16.25	2843.75
276		1			SMD Cement			1/4	1lb	2.50	125.00
290		1			Fleecle			2	gal	42.00	84.00
105		1			D-Air			1	job	275.00	275.00
					Port Collar Tool Rental			5 1/2	in		
581		1			Service Charge Cement			200	skts	1.75	350.00
583		1			Drayage			399	TM	00.85	339.15

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED 7-13-18 TIME SIGNED 12:30

A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.

P.O. BOX 466

NESS CITY, KS 67560

785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	5516	90
TOTAL	5783.12	

SWIFT OPERATOR David Kudva APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 7-13-18 PAGE NO. 1

CUSTOMER Palomino Petroleum WELL NO. #1 LEASE 18-3 JOB TYPE Post Collar TICKET NO. # 31660

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							on location 2 7/8" = 5 1/2"
								PL - 1826'
	1050	0	0	✓		1000		Pressure Test *Hold*
								open P.C.
	1055	3	4	✓		200		Injection Rate
	1100	4 1/2	97	✓		150		mix 175 sks SMD 1/4" Flo @ 11.2 ppg circulate cement to surface - *25 sks*
	1120	4	10	✓		400		Displace Cement
	1130	0	0	✓		1000		Close P.C. / Test *Hold*
								Run HJs
	1145	3 1/2	25	✓		300		Reverse clean
								wash up truck
	1230							Job Complete
								Thank You Dave Preston Gideon Isaac

RECEIVED

JUL 16 2018

Invoice



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



DATE	INVOICE #
7/6/2018	31654

BILL TO

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	18-3	Trego	W&W Drilling Ri...	Oil	Development	Cement 5 1/2 Lo...	David K.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	5.00	200.00
578D-L	Pump Charge - Long String				1	Job	1,300.00	1,300.00
409-5	5 1/2" Turbolizer				12	Each	85.00	1,020.00T
403-5	5 1/2" Cement Basket				1	Each	275.00	275.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
325	Standard Cement				100	Sacks	13.00	1,300.00T
284	Calseal				5	Sack(s)	35.00	175.00T
283	Salt				500	Lb(s)	0.20	100.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				50	Lb(s)	2.50	125.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	16.25	2,031.25T
290	D-Air				2	Gallon(s)	42.00	84.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				457	Ton Miles	0.85	388.45
	Subtotal							11,542.45
	Sales Tax Trego County						8.00%	740.82
We Appreciate Your Business!						Total		\$12,283.27



CHARGE TO: Palomine Petroleum
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 031654

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Ness City 115</u>	<u>#1</u>	<u>18-3</u>	<u>Wingo</u>	<u>KS</u>	<u>Urbica</u>	<u>7-6-18</u>	<u>Scime</u>
	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
		<u>W+L Drilling</u>	<u>#12</u>	<u>AT</u>	<u>Location</u>		
	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.			
	<u>0-1</u>	<u>Development</u>	<u>Cement 5 1/2" Longstring</u>				
REFERRAL LOCATION	INVOICE INSTRUCTIONS						
	<u>Urbica - 8 1/2 by 5 inch</u>						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>575</u>								<u>40</u>	<u>mi'</u>	<u>5.00</u>	<u>2000.00</u>
<u>578</u>								<u>1</u>	<u>job</u>	<u>1300.00</u>	<u>1300.00</u>
<u>409</u>								<u>12</u>	<u>ea</u>	<u>85.00</u>	<u>1020.00</u>
<u>403</u>								<u>1</u>	<u>ea</u>	<u>275.00</u>	<u>275.00</u>
<u>406</u>								<u>1</u>	<u>ea</u>	<u>250.00</u>	<u>250.00</u>
<u>407</u>								<u>1</u>	<u>ea</u>	<u>325.00</u>	<u>325.00</u>
<u>404</u>								<u>1</u>	<u>ea</u>	<u>2500.00</u>	<u>2500.00</u>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X Heaven Vandenhoff
 DATE SIGNED 7-6-18 TIME SIGNED 1400
 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

TAX
Tugo
 TOTAL
12283.97

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR David Kuehn APPROVAL

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. P 316521

CUSTOMER Palomino Petroleum

WELL 18-3 A1

DATE 7-6-18

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M		
325		1				Standard Cement (EA-2)			13.00	1300.00
284		1				Calseal	5	%	5.00	175.00
283		1				S&F	10	%	00.20	100.00
285		1				CFR-1	1/2	%	4.50	225.00
276		1				Fluocel	1/4	lb	2.50	125.00
336		1				SMD Cement			16.25	2031.25
290		1				D-Air	2	gal	42.00	84.00
281		1				Mud Flush	500	gal	1.50	750.00
221		1				Liquid KCL	4	gal	25.00	100.00
581		1				SERVICE CHARGE			1.75	393.75
583		1				MILEAGE CHARGE			00.85	388.45

TOTAL WEIGHT 22850
LOADED MILES 40

CUBIC FEET 457

CONTINUATION TOTAL

5672.45

JOB LOG

SWIFT Services, Inc.

DATE 7-6-18 PAGE NO. 1

CUSTOMER Palomino Petroleum WELL NO. #1 LEASE 18-3 JOB TYPE 5 1/2" Longstring TICKET NO. #31654

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							on location 5 1/2" 14"
								RTD - 4440' LTD - 4438'
								TP - 4441 SS - #1 43, 42'
								P.C. - #63 1830' out #32 #102 #106
								Jarbs - #1 #2 #3 #5 #7 #9 #11 #13 #15 #17 #19 #62
								Basket - #63
	0940							Start 5 1/2" 14" casing in well
	1145							Drop Ball Circulate
	1255	6 1/2	12		✓	300		Pump 500 gal Mud Flush
		6 1/2	20		✓	300		Pump 20 bbl KCL Flush
			11					Plug RH (30 stks)
	1310	4 1/2	36		✓	200		mix 95 stks SMD @ 12.5 ppb
		4 1/2	24		✓	100		mix 100 stks EA-2 @ 15.5 ppb
								wash out Pump + Lines
								Release Latch Down Plug
	1325	6 1/2	0		✓	100		Start Displacement
		6 1/2	85		✓	300		Lift Pressure
		6 1/2	106		✓	800		max lift Pressure
	1350	6 1/2	107.3		✓	1800		Land Latch Down Plug
								Release Pressure * Plug Hold *
								wash up truck
	1430							Job Complete
								Thank You
								Dave Preston Gideon

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

RECEIVED

JUL 11 2018

Invoice

Date	Invoice #
7/5/2018	3375

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

P.O. No.	Terms	Project
18-13-1	Due on receipt	

Quantity	Description	Rate	Amount
150	COMMON CEMENT	16.50	2,475.00
5	CALCIUM-CHLORIDE	80.00	400.00
3	BENTONITE GEL	30.00	90.00
158	HANDLING	1.90	300.20
	BULK MILEAGE	550.00	550.00
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
	20% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		
	TREGO CO SALES TAX	8.00%	0.00

Thank you for your business.

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

Total	\$4,988.95
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GLOBAL OIL FIELD SERVICES, LLC

3375

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>6-28-18</u>	SEC. <u>18</u>	TWP. <u>15</u>	RANGE <u>25 W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>7:45 AM</u>	
LEASE <u>18-3</u>	WELL #. <u>1</u>	LOCATION <u>1/2 mile S of Hwy 7 North</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>		
OLD OR NEW (CIRCLE ONE) <u>(N)</u>				East Into				

CONTRACTOR WW Drilling Rig #12

TYPE OF JOB 2nd fair

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 1/2 DEPTH 220'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 23'

PERFS

DISPLACEMENT

OWNER Palom Petroleum

CEMENT AMOUNT ORDERED 150 sl con 3600 2660

COMMON @ _____

POZMIX @ _____

GEL @ _____

CHLORIDE @ _____

ASC @ _____

HANDLING @ _____

MILEAGE @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER COO 11

409 HELPER Brad

BULK TRUCK DRIVER Tom

411

BULK TRUCK DRIVER

REMARKS:

Run 5jt of 6 3/4 casing + Lit
Break circulation Holed to pump truck
pumped 15.05x of con + displaced 12.2 bbls
out of H2O and shut.

Cement did circulate to surface.

CHARGE TO: Palom Petroleum

STREET Back

CITY _____ STATE _____ ZIP _____

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 Calvin Howard

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE @ _____

MILEAGE @ _____

MANIFOLD @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

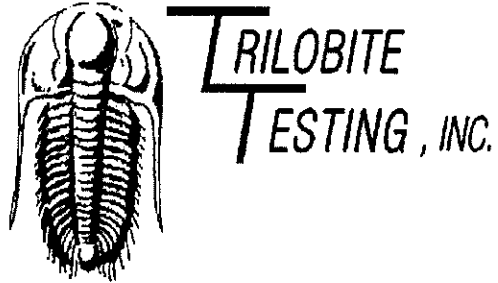
@ _____

TOTAL _____

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 67114-8827

ATTN: Klee Watchous, Jerry

18-3 #1

18-15s-25w Trego,KS

Start Date: 2018.07.03 @ 14:40:59

End Date: 2018.07.03 @ 20:51:08

Job Ticket #: 64231 DST #: 1

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

Printed: 2018.07.10 @ 11:00:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 New ton KS 67114-8827
 ATTN: Klee Watchous, Jerry

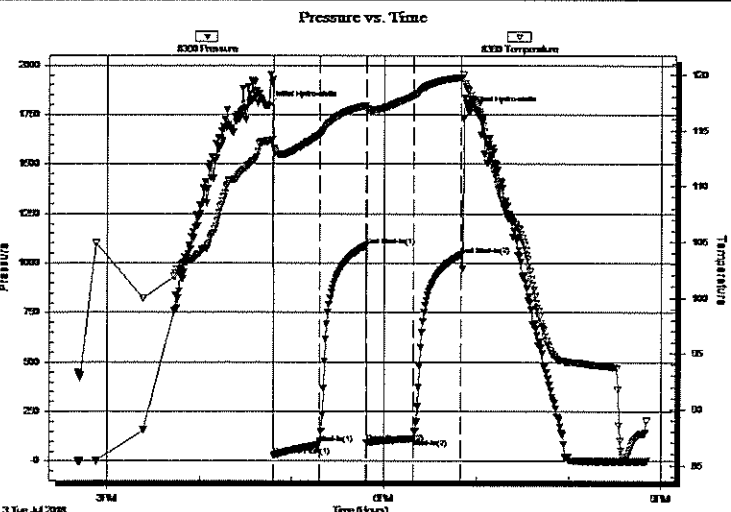
18-15s-25w Trego,KS
18-3 #1
 Job Ticket: 64231 **DST#: 1**
 Test Start: 2018.07.03 @ 14:40:59

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:48:09
 Time Test Ended: 20:51:08
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 77
 Interval: **3868.00 ft (KB) To 3984.00 ft (KB) (TVD)**
 Total Depth: 3984.00 ft (KB) (TVD)
 Reference Elevations: 2407.00 ft (KB)
 2399.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8360 **Inside**
 Press@RunDepth: 113.13 psig @ 3870.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.03 End Date: 2018.07.03 Last Calib.: 2018.07.03
 Start Time: 14:40:59 End Time: 20:51:08 Time On Btm: 2018.07.03 @ 16:45:09
 Time Off Btm: 2018.07.03 @ 18:54:54

TEST COMMENT: 30-IFP-w k to a fr blow 1" to 4 1/2" blow
 30-ISIP-no blow back
 30-FFP-w k bl thru-out surface to 2 1/4" blow
 30-FSIP-no blow back



PRESSURE SUMMARY

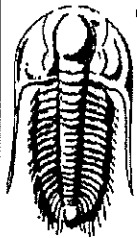
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.97	114.04	Initial Hydro-static
3	26.31	113.42	Open To Flow (1)
33	89.09	114.63	Shut-In(1)
64	1088.79	117.23	End Shut-In(1)
64	92.60	116.73	Open To Flow (2)
94	113.13	118.08	Shut-In(2)
125	1043.06	119.74	End Shut-In(2)
130	1771.80	118.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	0.59
80.00	SOCMW 1%O25%M74%W	0.58
10.00	CO	0.14

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous, Jerry

18-15s-25w Trego, KS

18-3 #1

Job Ticket: 64231

DST#: 1

Test Start: 2018.07.03 @ 14:40:59

GENERAL INFORMATION:

Formation: LKC H-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:48:09

Time Test Ended: 20:51:08

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: 3868.00 ft (KB) To 3984.00 ft (KB) (TVD)

Total Depth: 3984.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2407.00 ft (KB)

2399.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8673

Outside

Press@RunDepth: psig @ 3870.00 ft (KB)

Start Date: 2018.07.03 End Date: 2018.07.03

Start Time: 14:40:14 End Time: 20:50:08

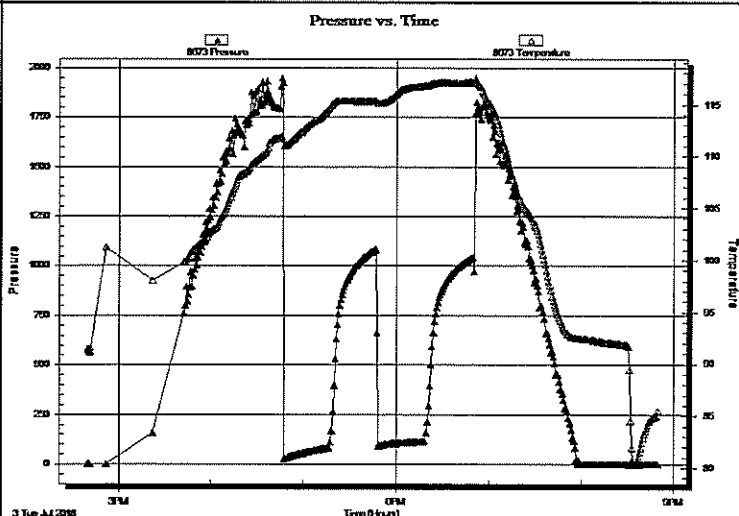
Capacity: 8000.00 psig

Last Calib.: 2018.07.03

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k to a fr blow 1" to 4 1/2" blow
30-ISIP-no blow back
30-FFP-w k bl thru-out surface to 2 1/4" blow
30-FSIP-no blow back



PRESSURE SUMMARY

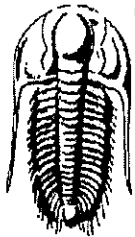
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	0.59
80.00	SOCMW 1%O25%M74%W	0.58
10.00	CO	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

18-15s-25w Trego,KS

18-3 #1

Job Ticket: 64231

DST#: 1

ATTN: Klee Watchous, Jerry

Test Start: 2018.07.03 @ 14:40:59

Tool Information

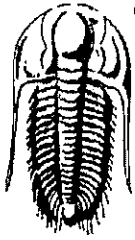
Drill Pipe:	Length: 3664.00 ft	Diameter: 3.80 inches	Volume: 51.40 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3868.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	116.00 ft			
Tool Length:	145.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3840.00	
Shut In Tool	5.00			3845.00	
Hydraulic tool	5.00			3850.00	
Jars	5.00			3855.00	
Safety Joint	3.00			3858.00	
Packer	5.00			3863.00	29.00 Bottom Of Top Packer
Packer	5.00			3868.00	
Stubb	1.00			3869.00	
Perforations	1.00			3870.00	
Recorder	0.00	8360	Inside	3870.00	
Recorder	0.00	8673	Outside	3870.00	
Blank Spacing	96.00			3966.00	
Perforations	15.00			3981.00	
Bullnose	3.00			3984.00	116.00 Bottom Packers & Anchor

Total Tool Length: 145.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

18-15s-25w Trego,KS

18-3 #1

Job Ticket: 64231

DST#: 1

ATTN: Klee Watchous, Jerry

Test Start: 2018.07.03 @ 14:40:59

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 5.98 in³
Resistivity: ohm.m
Salinity: 3200.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 36 deg API
Water Salinity: 90000 ppm

Recovery Information

Recovery Table

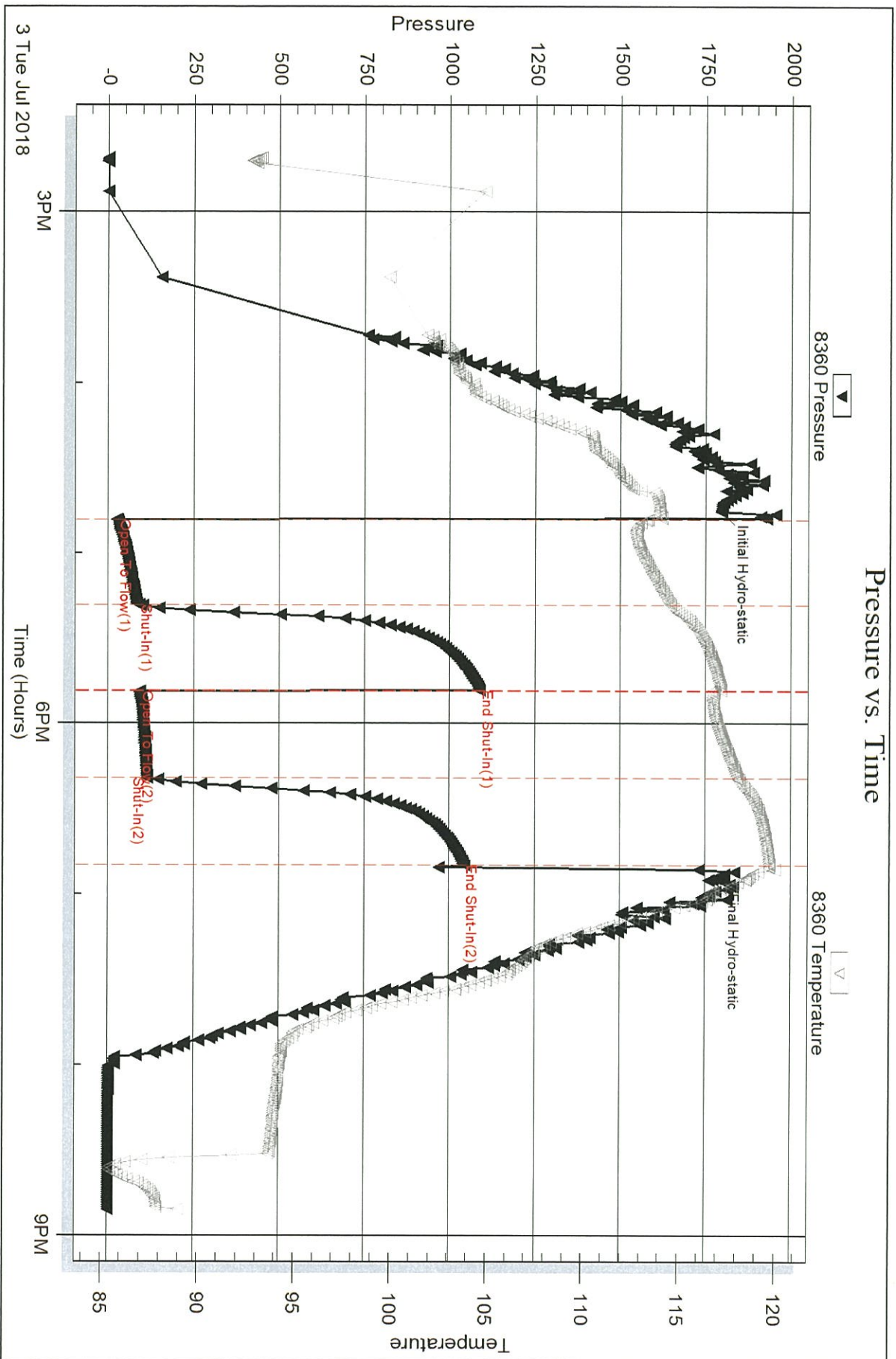
Length ft	Description	Volume bbl
120.00	Water	0.590
80.00	SOCMV 1%O25%M74%W	0.576
10.00	CO	0.140

Total Length: 210.00 ft Total Volume: 1.306 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW.08@75F



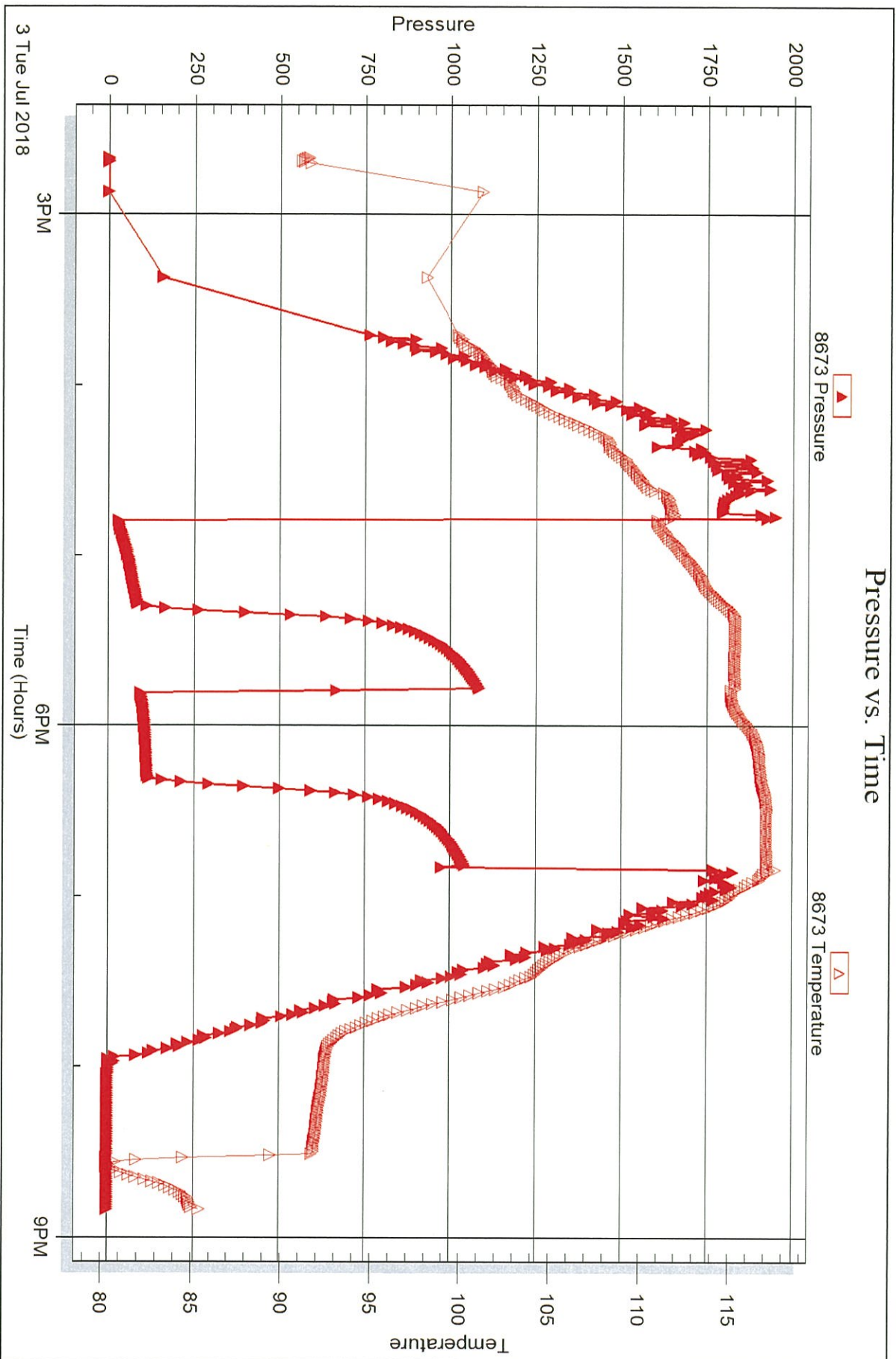
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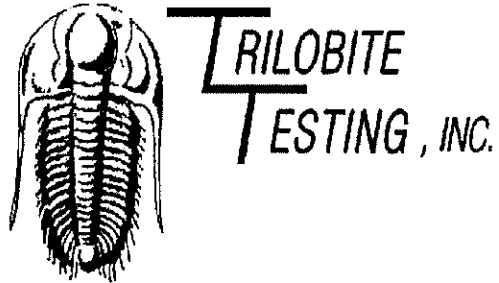
Outside

Palomino Petroleum Inc

18-3 #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton KS 67114-8827

ATTN: Klee Watchous, Jerry

18-3 #1

18-15s-25w Trego,KS

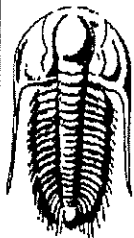
Start Date: 2018.07.05 @ 03:50:38

End Date: 2018.07.05 @ 11:34:47

Job Ticket #: 64232 DST #: 2

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

Printed: 2018.07.10 @ 10:58:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton KS 67114-8827
 ATTN: Klee Watchous, Jerry

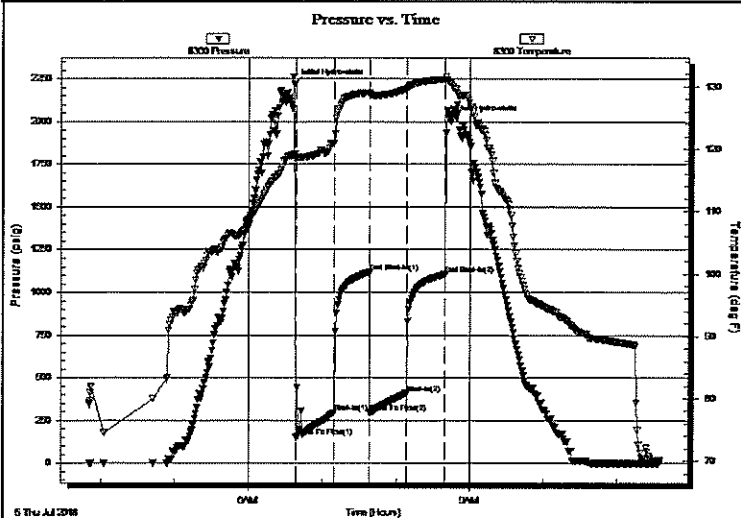
18-15s-25w Trego,KS
18-3 #1
 Job Ticket: 64232 DST#: 2
 Test Start: 2018.07.05 @ 03:50:38

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:38:03
 Time Test Ended: 11:34:47
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Interval: **4261.00 ft (KB) To 4340.00 ft (KB) (TVD)**
 Total Depth: 4340.00 ft (KB) (TVD)
 Reference Elevations: 2407.00 ft (KB)
 2399.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8360 **Inside**
 Press@RunDepth: 410.07 psig @ 4273.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.05 End Date: 2018.07.05 Last Calib.: 2018.07.05
 Start Time: 03:50:38 End Time: 11:34:47 Time On Btm: 2018.07.05 @ 06:37:03
 Time Off Btm: 2018.07.05 @ 08:43:17

TEST COMMENT: 30-IFP-w eak to BOB in 6 min
 30-ISIP-1/2" blow back
 30-FFP-w eak to BOB in 10 min
 30-FSIP-surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.09	119.17	Initial Hydro-static
1	154.48	118.66	Open To Flow (1)
33	296.94	121.07	Shut-In (1)
61	1115.46	129.00	End Shut-In (1)
62	295.65	128.75	Open To Flow (2)
92	410.07	129.55	Shut-In (2)
123	1105.61	131.13	End Shut-In (2)
127	2012.50	130.57	Final Hydro-static

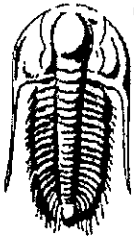
Recovery

Length (ft)	Description	Volume (bbt)
60.00	O&MCW 5%O5%M90%W	0.30
435.00	GM&WCO 20%G3%M30W47%O	5.01
186.00	GM&WCO 20%G10%M20%W50%O	2.61
186.00	MGO 10%G40%M50%O	2.61
40.00	HO&GCM 5%G40%O55%M	0.56
0.00	20' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

18-15s-25w Trego,KS

18-3 #1

Job Ticket: 64232

DST#: 2

ATTN: Klee Watchous, Jerry

Test Start: 2018.07.05 @ 03:50:38

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:38:03

Time Test Ended: 11:34:47

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 4261.00 ft (KB) To 4340.00 ft (KB) (TVD)

Total Depth: 4340.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2407.00 ft (KB)

2399.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8673

Outside

Press@RunDepth: psig @ 4273.00 ft (KB)

Start Date: 2018.07.05 End Date: 2018.07.05

Start Time: 03:50:11 End Time: 11:34:20

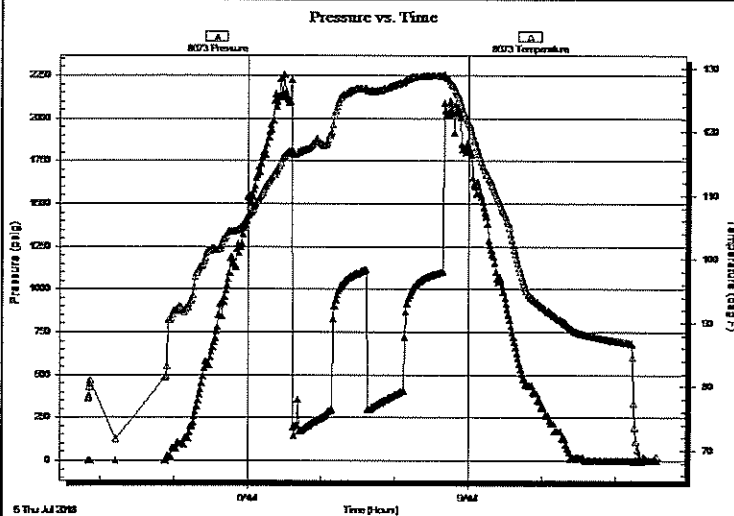
Capacity: 8000.00 psig

Last Calib.: 2018.07.05

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w eak to BOB in 6 min
30-ISIP-1/2" blow back
30-FFP-w eak to BOB in 10 min
30-FSIP-surface blow back



PRESSURE SUMMARY

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

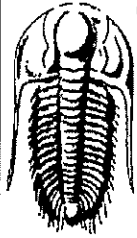
Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&MCW 5%O5%M90%W	0.30
435.00	GM&WCO 20%G3%M30W47%O	5.01
186.00	GM&WCO 20%G10%M20%W50%O	2.61
186.00	MGO 10%G40%M50%O	2.61
40.00	HO&GCM 5%G40%O55%M	0.56
0.00	20' GIP	0.00

* 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
4924 SE 84th St
New ton KS 67114-8827
ATTN: Klee Watchous, Jerry

18-15s-25w Trego,KS
18-3 #1
Job Ticket: 64232 DST#: 2
Test Start: 2018.07.05 @ 03:50:38

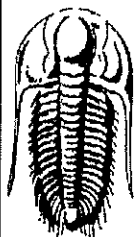
Tool Information

Drill Pipe:	Length: 4075.00 ft	Diameter: 3.80 inches	Volume: 57.16 bbl	Tool Weight:	2200.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 58.05 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4261.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	79.00 ft				
Tool Length:	108.00 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			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	3.00			4251.00	
Packer	5.00			4256.00	29.00 Bottom Of Top Packer
Packer	5.00			4261.00	
Stubb	1.00			4262.00	
Perforations	11.00			4273.00	
Recorder	0.00	8360	Inside	4273.00	
Recorder	0.00	8673	Outside	4273.00	
Blank Spacing	64.00			4337.00	
Bullnose	3.00			4340.00	79.00 Bottom Packers & Anchor

Total Tool Length: 108.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

18-15s-25w Trego,KS

18-3 #1

Job Ticket: 64232

DST#: 2

ATTN: Klee Watchous, Jerry

Test Start: 2018.07.05 @ 03:50:38

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 63.00 sec/qt
Water Loss: 6.19 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 26000 ppm

Recovery Information

Recovery Table

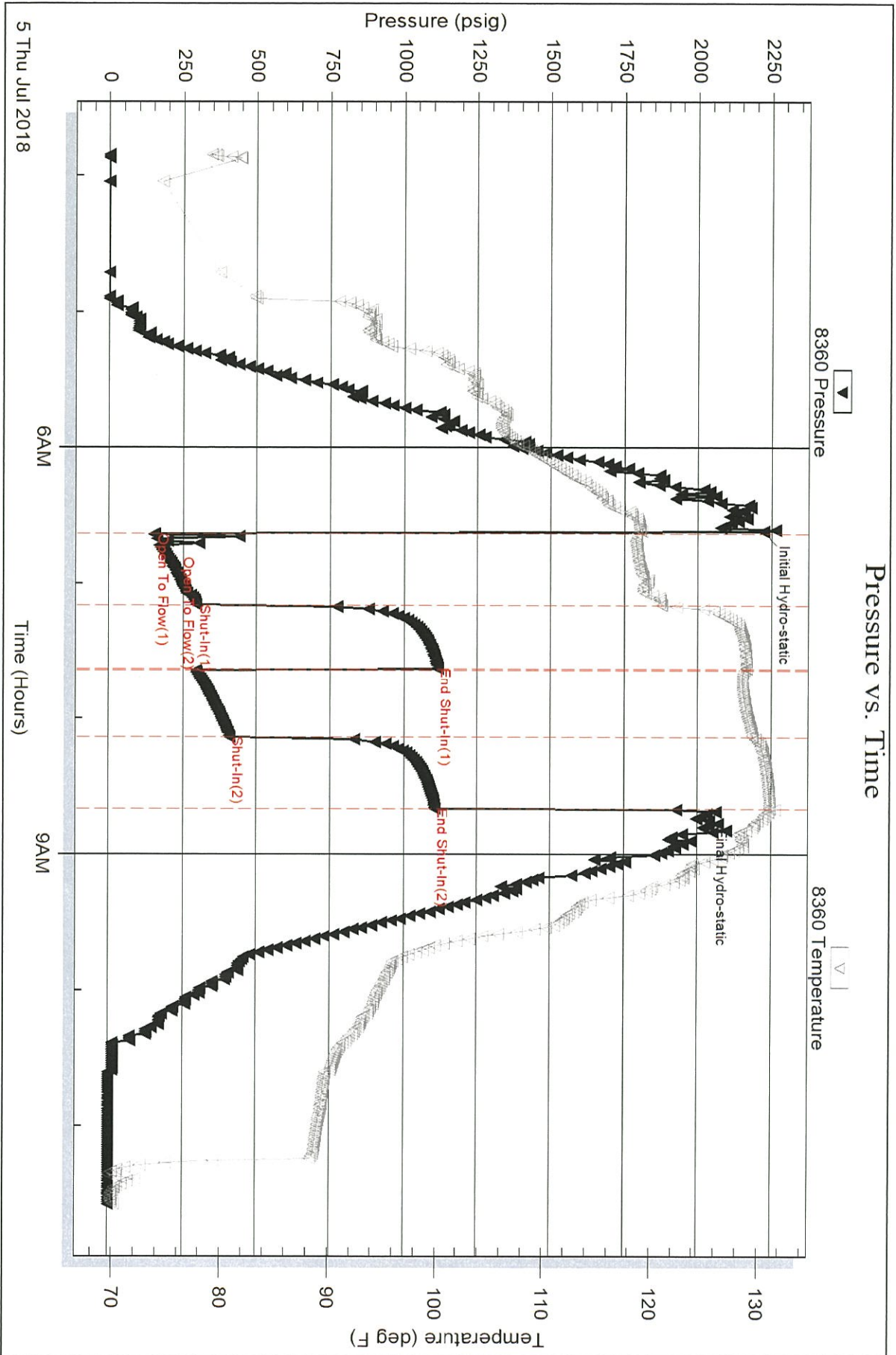
Length ft	Description	Volume bbl
60.00	O&MCW 5%O5%M90%W	0.295
435.00	GM&WCO 20%G3%M30W47%O	5.009
186.00	GM&WCO 20%G10%M20%W50%O	2.609
186.00	MGO 10%G40%M50%O	2.609
40.00	HO&GCM 5%G40%O55%M	0.561
0.00	20' GIP	0.000

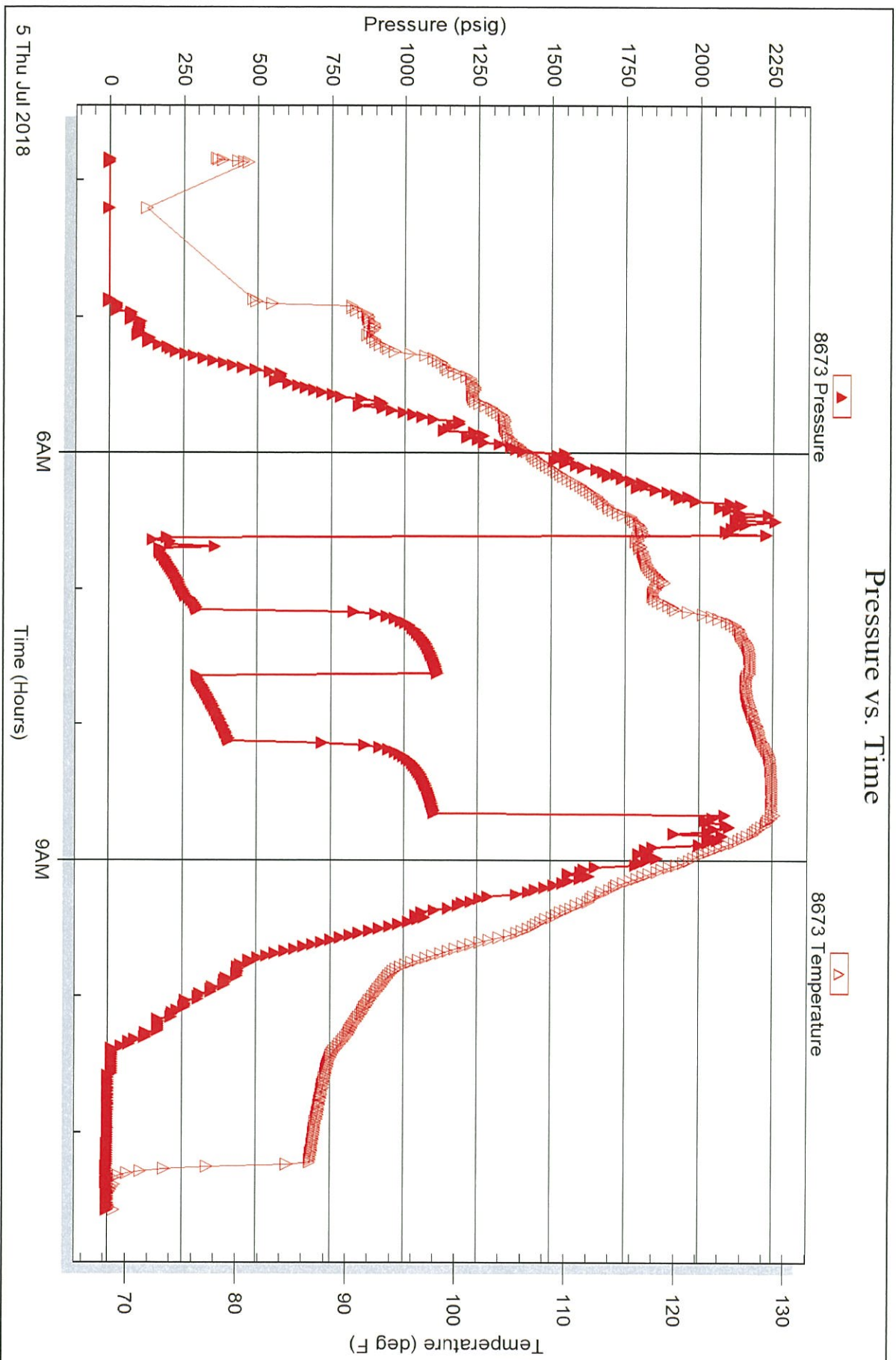
Total Length: 907.00 ft Total Volume: 11.083 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .26@70F







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64231

Well Name & No. 18-3 #1 Test No. 1 Date 7-3-18
 Company Palomino Petroleum Inc Elevation 2407 KB 2399 GL
 Address 4924 SE 84th ST. Newton, KS 67114-8827
 Co. Rep / Geo. JERRY SMITH Rig WW rig 12
 Location: Sec. 18 Twp 15^s Rge. 25^w Co. Trego State Ks

Interval Tested 3868-3984 Zone Tested LKC H-K
 Anchor Length 116 Drill Pipe Run 3664 Mud Wt. 8.9
 Top Packer Depth 3863 Drill Collars Run 180 Vis 60
 Bottom Packer Depth 3868 Wt. Pipe Run - WL 6
 Total Depth 3984 Chlorides 3200 ppm System LCM 4#

Blow Description I FP - Weak To A Fair Blow 1" To 4 1/2" Blow
I STP - NO Blow Back
F FP - Weak Blow thru out surface to 2 1/4" Blow
F STP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>CO</u>				
<u>80</u>	<u>SOCMW</u>		<u>1</u>	<u>74</u>	<u>25</u>
<u>120</u>	<u>WATER</u>				

Rec Total 210 BHT 119 Gravity 36 API RW .08 @ 75 ° F Chlorides 90000 ppm
 (A) Initial Hydrostatic 1794 Test 1050 T-On Location 1200
 (B) First Initial Flow 26 Jars 250 T-Started 1440
 (C) First Final Flow 89 Safety Joint 75 T-Open 1645
 (D) Initial Shut-In 1088 Circ Sub _____ T-Pulled 1845
 (E) Second Initial Flow 92 Hourly Standby _____ T-Out 2051
 (F) Second Final Flow 113 Mileage 140 RT 140 Comments Motel stay
 (G) Final Shut-In 1043 Sampler _____
 (H) Final Hydrostatic 1771 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 0
 Total 1515
 MP/DST Disc't _____
 Sub Total 1515

Approved By _____ Our Representative RAY SCHWAGER *THANK YOU*

Trilobite Testing Inc. shall not be liable for damaged or 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. 64232

Well Name & No. 18-3 #1 Test No. 2 Date 7-5-18
 Company Palomino Petroleum Inc Elevation 2407 KB 2399 GL
 Address 4924 SE 84th ST. Newton, Ks 67114-8827
 Co. Rep / Geo. JERRY SMITH Rig WW rig 12
 Location: Sec. 18 Twp 15^s Rge. 25^w Co. Trego State Ko

Interval Tested 4261-4340 Zone Tested MISS
 Anchor Length 79 Drill Pipe Run 4075 Mud Wt. 9
 Top Packer Depth 4256 Drill Collars Run 180 Vis 63
 Bottom Packer Depth 4261 Wt. Pipe Run - WL 6.2
 Total Depth 4340 Chlorides 3000 ppm System LCM 2 1/2 #

Blow Description TFP - WEAK TO BOBIN 6min
TSTP - 1/2" Blow Back
FFP - WEAK TO BOBIN 10min
FSTP - SURFACE Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>H04 GCM</u>	<u>5</u>	<u>40</u>	<u>55</u>	
<u>186</u>	<u>M60</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>186</u>	<u>GM+W COIL</u>	<u>20</u>	<u>50</u>	<u>20</u>	<u>10</u>
<u>434</u>	<u>GMW COIL</u>	<u>20</u>	<u>47</u>	<u>30</u>	<u>3</u>
<u>60</u>	<u>O4 MCW</u>		<u>5</u>	<u>90</u>	<u>5</u>

Rec Total 906 BHT 131 Gravity - API RW .26 @ 70 °F Chlorides 26000 ppm

(A) Initial Hydrostatic 2223 Test 1150 T-On Location 0230
 (B) First Initial Flow 154 Jars 250 T-Started 0350
 (C) First Final Flow 296 Safety Joint 75 T-Open 0640
 (D) Initial Shut-In 1115 Circ Sub T-Pulled 0840
 (E) Second Initial Flow 295 Hourly Standby T-Out 1134
 (F) Second Final Flow 410 Mileage 140 RT 140 Comments 20' GIP
 (G) Final Shut-In 1105 Sampler
 (H) Final Hydrostatic 2012 Straddle
 Shale Packer 250 Ruined Shale Packer
 Ruined Packer

Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 30 Extra Recorder Sub Total 0
 Final Flow 30 Day Standby Total 1765
 Final Shut-In 30 Accessibility MP/DST Disc't
 Sub Total 1765

Approved By _____ Our Representative Ray Schwager Thank you

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or 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

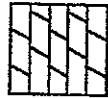


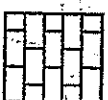
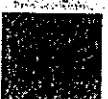


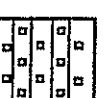

COMPANY: PALOMINO PETROLEUM, INC.			ELEVATIONS
LEASE: #1 18-3			K.B. 2407
FIELD: REVILO			D.F. 2406
LOCATION: 2281' FNL & 1802' FWL			G.L. 2399
SEC. 18	TWSP. 15	RNG. 25W	Measurements Are All From: KB
COUNTY: TREGO		STATE: KANSAS	

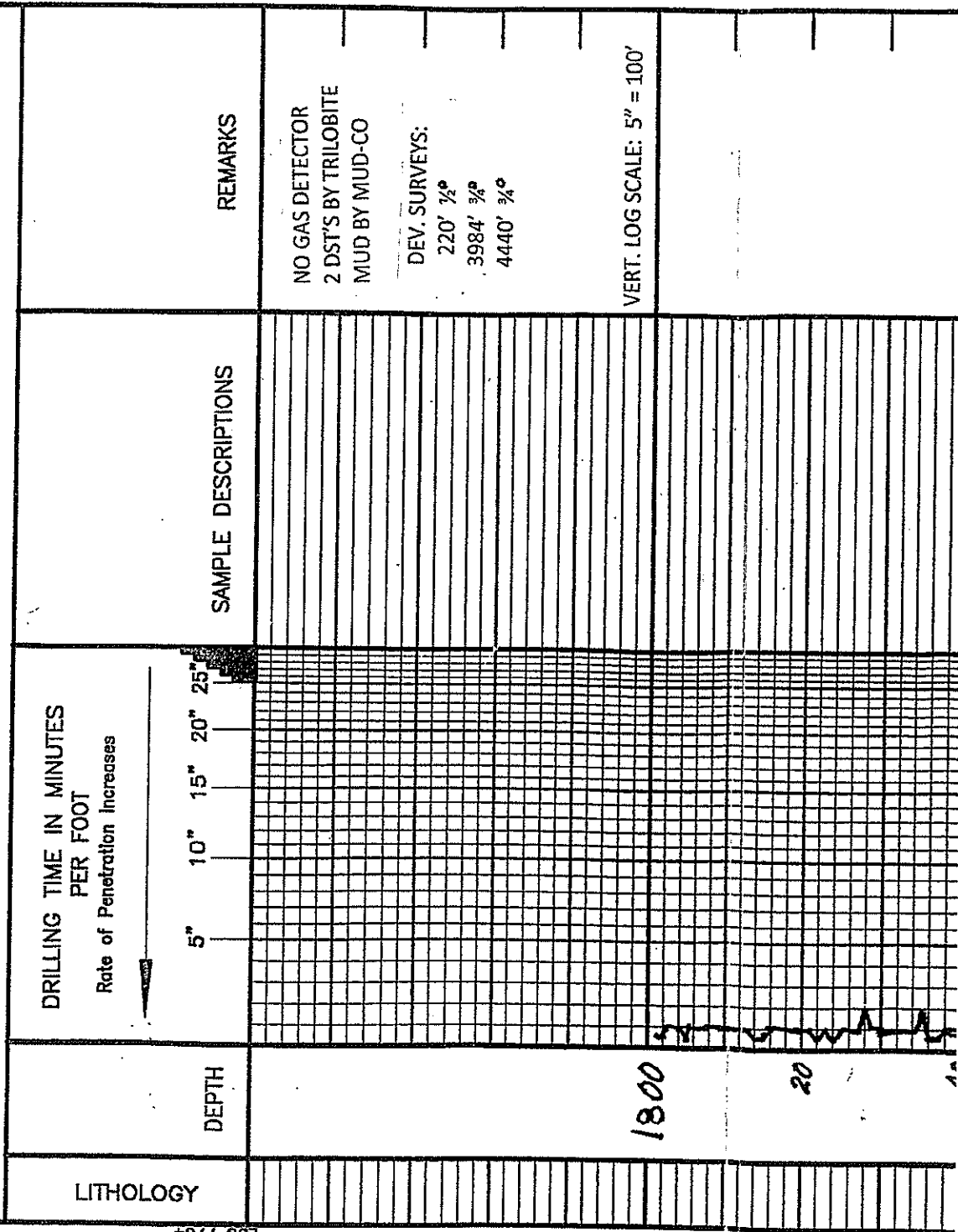
CONTRACTOR: WW DRILLING RIG #12			CASING
SPUD: 6/28/2018	COMP. 7/06/18	SURFACE: 8 5/8" @ 219'	
RTD. 4440	LTD. 4438	PRODUCTION: 5 1/2" @ 4435'	
MUD UP: 3436	TYPE MUD: CHEMICAL		ELECTRICAL SURVEYS

API No. 15-195-23059		GEMINI: CDNL, DIL, ML, BCS
SAMPLES SAVED FROM: 3500		TO: RTD
DRILLING TIME KEPT FROM: 1800/3500		TO: 1900/RTD
SAMPLES EXAMINED FROM: 3500		TO: RTD
GEOLOGICAL SUPERVISOR FROM: 3305		TO: RTD
GEOLOGIST ON WELL: JERRY A. SMITH		

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1850 (+557)	1855 (+552)
HEEBNER	3679 (-1272)	3678 (-1271)
LANSING	3720 (-1313)	3718 (-1311)
STARK	3950 (-1543)	3952 (-1545)
PAWNEE	4149 (-1742)	4151 (-1744)
FT. SCOTT	4212 (-1805)	4216 (-1809)
CHEROKEE	4237 (-1830)	4242 (-1835)
MISSISSIPPIAN	4310 (-1903)	4315 (-1908)
MISS. ø	4318 (-1911)	4324 (-1917)

LEGEND

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



ANHYDRITE

1855 (+552) SMPL

1850 (+557) LOG

B/ANHYDRITE

1894 (+513) SMPL & LOG

MUD @ 3507:

8.6 WT% 60 VIS, 6.0 FILT

3400 CHLOR, 4# LCM

LA-LF → M.G.Y. GY → M. EX.
DSE. TO 100 SP. CHK.
ABO GY TO 100 SP. CHK.

LA-LF SA-AA.

LA-LF → M.G.Y. EX. DSE →
CHK. ABO GY TO 100 SP. CHK.

LA-LF SA-AA.

LA-AA. V. CHK. w/ SA-AA.

LA-LF → M.G.Y. → GY TO 100 SP. CHK.
DSE. TO 100 SP. CHK. → SA-AA.
BOG. CHK.

LA-AA. CHK. w/ SA-AA.

LA-LF SA-AA. DEC. IN
CHK.

LA-LF → M.G.Y. EX. DSE.
DSE. TO 100 SP. CHK. → SA-AA.
BOG. CHK.

LA-LF → M.G.Y. EX. DSE.
DSE. TO 100 SP. CHK. → SA-AA.
BOG. CHK.

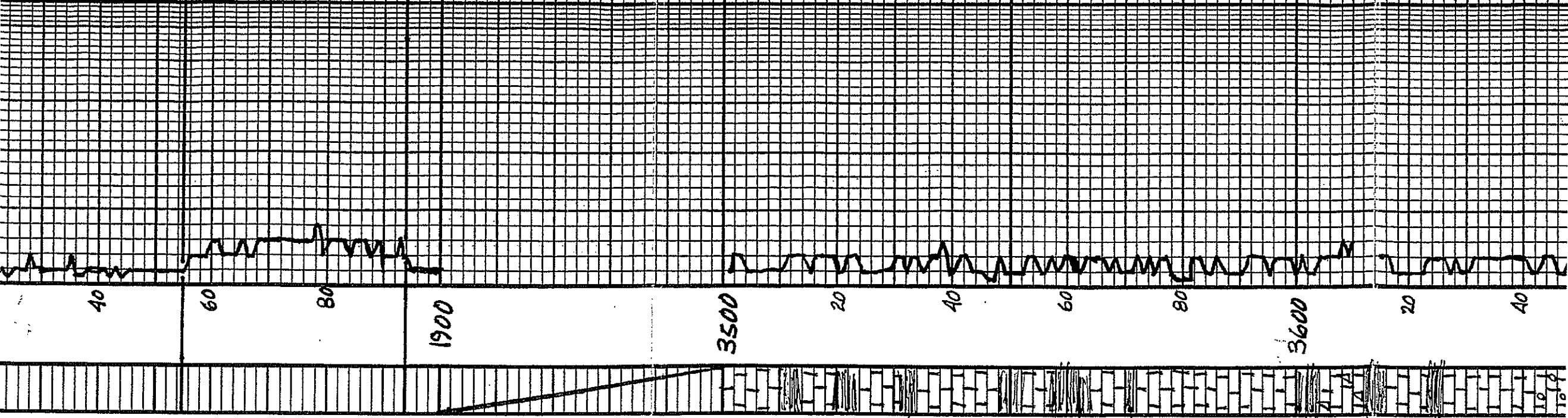
LA-LF → M.G.Y. EX. DSE. TO VIS
DSE. TO 100 SP. CHK. → SA-AA.
BOG. CHK.

LA-LF → M.G.Y. GY → M. EX.
DSE. TO 100 SP. CHK.

LA-LF → M.G.Y. EX. DSE.

LA-AA. SEAT. M → DSE. SA.

LA-LF → M.G.Y. EX. DSE. TO 100
SP. CHK. → SA-AA. BOG. CHK.



LA-AA. SCAT M → DEBY. SH.

LA-G → M BY. EX. DISE → PR. SCAT VBY. DAMID. ANT → DR. A. AS.

LA-G → M BY. EX. DISE. W/ APD M → DR BY. BY → GRAN SH.

LA-G SH → AA.

LA-G → M → DR BY. EX. DISE. W/ SCAT VBY. EX. W/ DR BY. SH. SN → BULK. CARR.

LA → BK. CARR. W/ DR BY. BY → GRAN SH.

LA → M → DR BY. EX. DISE.

SH → M → DR BY. BY → GRAN.

LA → GRAN. W/ → EX. DISE. W/ SCAT VBY. EX. DISE. SCAT VBY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → AA. W/ SN → M BY. BY → GRAN. RED.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. AS.

LA → AA.

LA → GRAN. W/ BY. EX. DISE. SCAT VBY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → AA. W/ SN → M BY. BY → GRAN. SH.

LA → AA. W/ DR BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → AA. W/ DR BY. EX. DISE.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → AA. W/ DR BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → GRAN. W/ BY. EX. DISE.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → GRAN. W/ BY. EX. DISE. W/ DR BY. EX. W/ DR BY. SH. SN → BULK. CARR. W/ DR BY. SH.

LA → AA.

HIEBNER

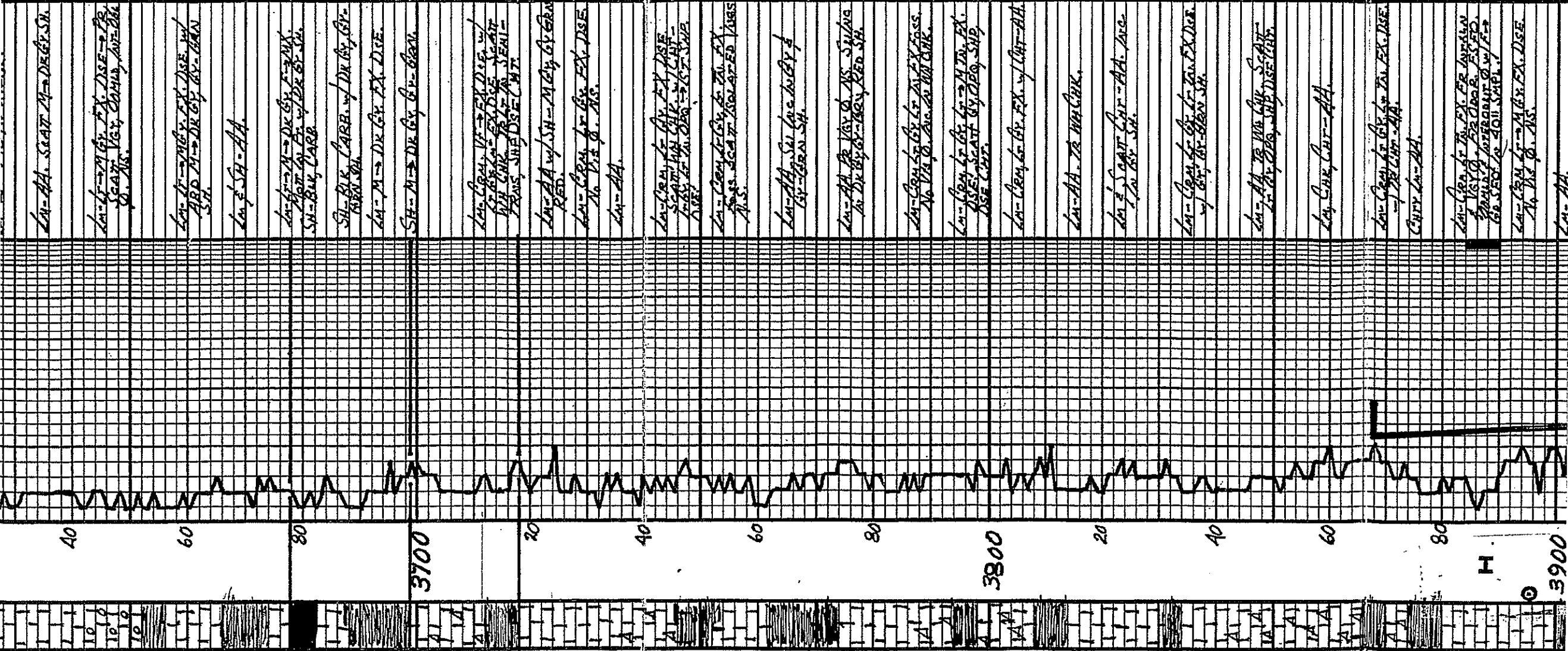
3678 (-1274) SMPPL
3679 (-1272) LOG

TORONTO

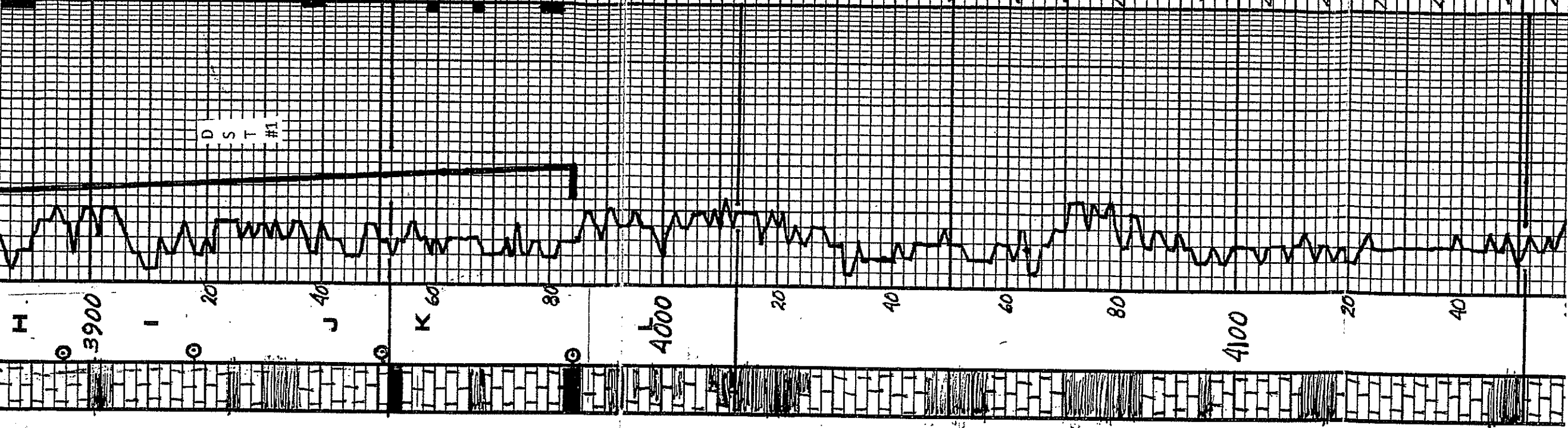
3699 (-1292) SMPPL
3700 (-1293) LOG

LANSING

3718 (-1311) SMPPL
3720 (-1313) LOG



1. VISCO. 52 DOOR. ESTD.
 2. BRAD. A. PERDENT. 0.1 W/ 1.5
 3. BR. 0.01. 4011. MAR. 11
 4. LA-CRM. 1.5. M. BY. FX. DISE.
 5. No. Vis. 0. NIS.
 6. LA-AA.
 7. LA-CRM. 1.5. BY. 2.0. FX. DISE. →
 8. VIS. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 9. VIS. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 10. LA-AA. No. Vis. 0. No. Ch. 0.0. 0.0.
 11. NIS.
 12. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 13. No. Vis. 0. NIS.
 14. LA-AA. No. Vis. 0. NIS.
 15. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 16. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 17. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 18. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 19. LA-AA. No. Vis. 0. NIS.
 20. LA-CRM. 1.5. BY. 2.0. FX. DISE.
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 22. LA-AA. No. Vis. 0. NIS.
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 25. LA-AA. No. Vis. 0. NIS.
 26. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 27. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 28. LA-AA. No. Vis. 0. NIS.
 29. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 30. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 31. LA-AA. No. Vis. 0. NIS.
 32. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 33. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 34. LA-AA. No. Vis. 0. NIS.
 35. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 36. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 37. LA-AA. No. Vis. 0. NIS.
 38. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 39. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 40. LA-AA. No. Vis. 0. NIS.
 41. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 42. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 43. LA-AA. No. Vis. 0. NIS.
 44. LA-CRM. 1.5. BY. 2.0. FX. DISE.
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 46. LA-AA. No. Vis. 0. NIS.
 47. LA-CRM. 1.5. BY. 2.0. FX. DISE.
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 50. LA-CRM. 1.5. BY. 2.0. FX. DISE.
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 77. LA-CRM. 1.5. BY. 2.0. FX. DISE.
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 80. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 81. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 82. LA-AA. No. Vis. 0. NIS.
 83. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 84. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
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 86. LA-CRM. 1.5. BY. 2.0. FX. DISE.
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 88. LA-AA. No. Vis. 0. NIS.
 89. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 90. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 91. LA-AA. No. Vis. 0. NIS.
 92. LA-CRM. 1.5. BY. 2.0. FX. DISE.
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 94. LA-AA. No. Vis. 0. NIS.
 95. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 96. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 97. LA-AA. No. Vis. 0. NIS.
 98. LA-CRM. 1.5. BY. 2.0. FX. DISE.
 99. No. Vis. 0. NIS. 1.0. 1.0. 1.0. 1.0. 1.0.
 100. LA-AA. No. Vis. 0. NIS.



STARK
 3952 (-1545) SMPL
 3950 (-1543) LOG
 MUD @ 3970':
 8.9 WT, 60+ VIS, 6.0 FILT,
 3200 CHLOR, 4# LCM
 SHORT TRIP @ 3984'
 PIPE STRAP @ 3984':
 3999.93 BOARD
 3997.08 STRAP
 2.85 SHORT
 B/KANSAS CITY
 4013 (-1606) SMPL
 4008 (-1601) LOG

MUD @ 4085':
 9.0 WT, 60 VIS, 6.2 FILT,
 3000 CHLOR, 4# LCM

PAWNEE
 4151 (-1744) SMPL
 4149 (-1742) LOG

SU. GARY. 4/17/58 SH-44.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

ADD. GY-GRAN. SH.
LA-M. A.

LA-M. G. EX. DISE.

LA-M. → D. K. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-M. → D. K. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-M. A. RESOLVING SHLY. A. I. E. D. GY. GRAN. SH.

SH-M. → D. K. G. → TR. B. I. E. C. H. A. R.

ADD. B. K. C. A. R. B. SH.

LA-M. G. EX. DISE. No. Vis. G. I. N. G. P. A. R. T. C. H. O. R.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

LA-CRA. G. → M. G. → N. G. → EX. DISE. w/ TR. W. L. C. H. K.

PAWNEE
4151 (-1744) SMPL
4149 (-1742) LOG

FT. SCOTT
4216 (-1809) SMPL
4212 (-1805) LOG

CHEROKEE
4242 (-1835) SMPL
4237 (-1830) LOG

SHORT TRIP @ 4300'

MISSISSIPPIAN
4315 (-1908) SMPL
4310 (-1903) LOG

MISS. POROSITY
4324 (-1917) SMPL
4318 (-1911) LOG

MUD @ 4340':
9.0 WT, 57 VIS, 6.4 FILT,
3000 CHLOR, 3#LCM

40

60

80

4200

20

40

60

80

4300

20

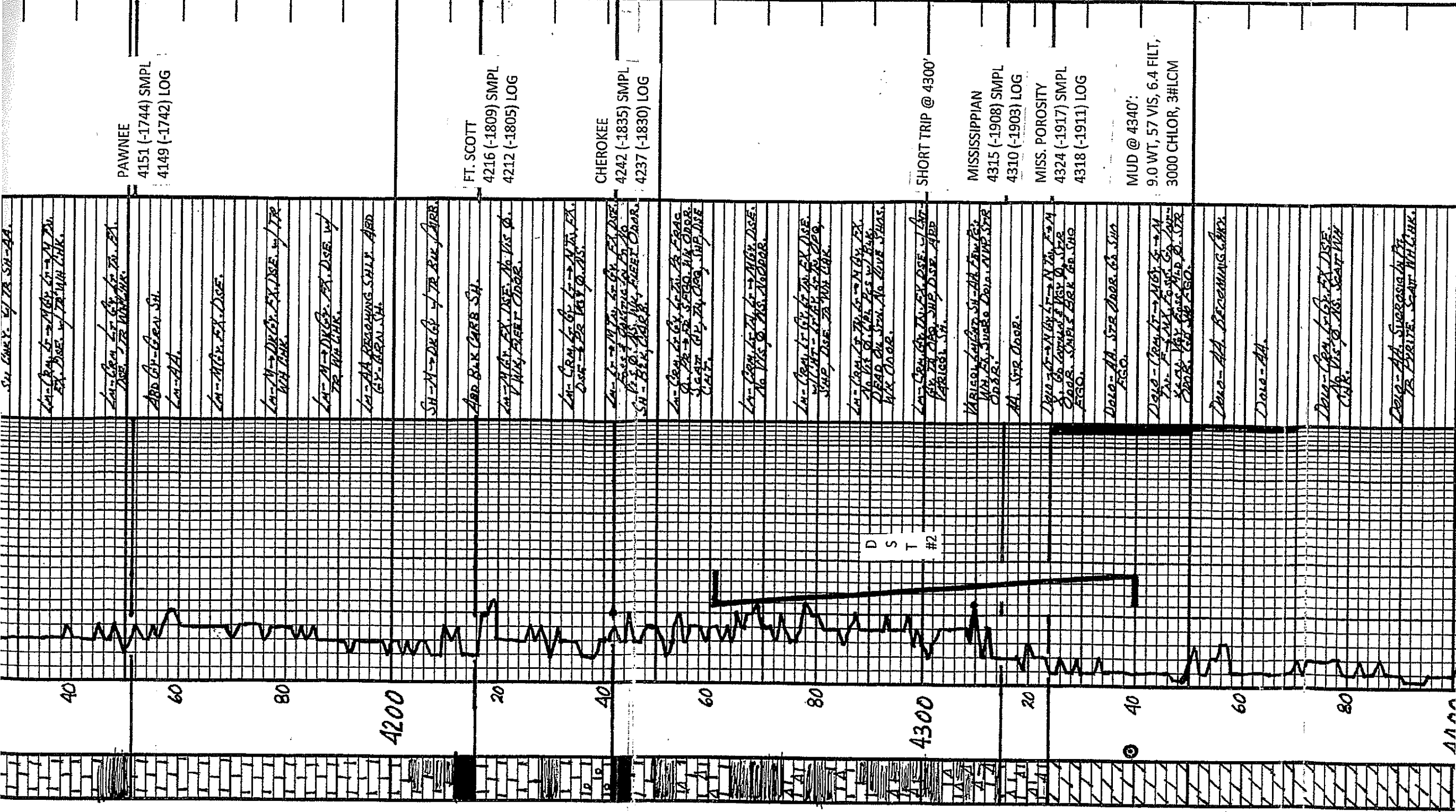
40

60

80

1100

D S T #2



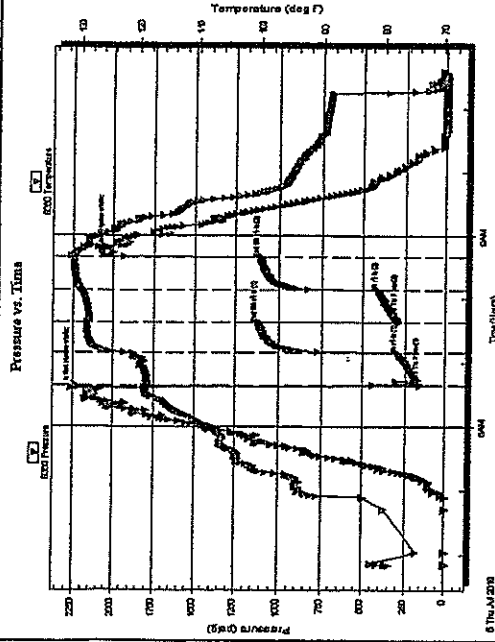
Serial #: 8360

Inside

Press@RunDepth: 410.07 psig @ 4273.00 ft (KB)
Start Date: 2018.07.05 End Date:
Start Time: 03:50:38 End Time:

Capacity: 8000.00 psig
Last Calib.: 2018.07.05
Time On Blmt: 2018.07.05 @ 06:37:03
Time Off Blmt: 2018.07.05 @ 08:43:17

TEST COMMENT: 30-IFP-weak to BOB in 6min
30-ISIP-1/2" blow back
30-FPP-weak to BOB in 10 min
30-FSIP-surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.09	119.17	Initial Hydro-static
1	154.48	118.66	Open To Flow (1)
33	296.94	121.07	Shut-in(1)
61	1115.46	129.00	End Shut-in(1)
62	295.65	128.75	Open To Flow (2)
92	410.07	129.55	Shut-in(2)
123	1105.61	131.13	End Shut-in(2)
127	2012.50	130.57	Final Hydro-static

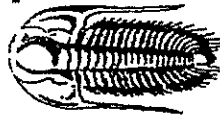
Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&MCW 5%O5%MSD9%W	0.30
435.00	GM&WCO 20%G3%M30W47%O	5.01
186.00	GM&WCO 20%G10%M20%W50%O	2.61
186.00	MGO 10%G40%M50%O	2.61
40.00	HO&GCM 5%G40%O55%M	0.56
0.00	20' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
Newton, Ks 67114-8827

18-15s-25w Trego

18-3 #1
Job Ticket: 64231 DST#:1
Test Start: 2018.07.03 @ 14:40:59

ATTN: Klee Watchous, Jerry

GENERAL INFORMATION:

Formation: LKC H-K
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:48:09
Time Test Ended: 20:51:08

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 77

Interval: 3868.00 ft (KB) To 3984.00 ft (KB) (TVD)
Total Depth: 3984.00 ft (KB) (TVD)
Hole Diameter: 7.85 inchesHole Condition: Fair

Reference Elevations: 2407.00 ft (KB)
2399.00 ft (CF)
8.00 ft
KB to GRFC:

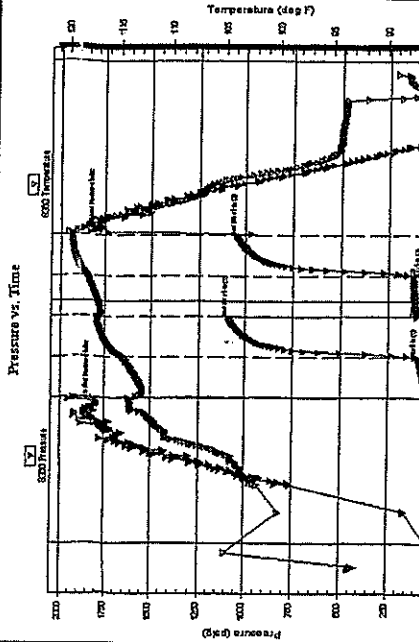
Serial #: 8360

Inside

Press@RunDepth: 113.13 psig @ 3870.00 ft (KB)
Start Date: 2018.07.03 End Date:
Start Time: 14:40:59 End Time:

Capacity: 8000.00 psig
Last Calib.: 2018.07.03
Time On Blmt: 2018.07.03 @ 16:45:09
Time Off Blmt: 2018.07.03 @ 18:54:54

TEST COMMENT: 30-IFP-wk to a fr blow 1" to 4 1/2" blow
30-ISIP-no blow back
30-FPP-wk bl thru-out surface to 2 1/4" blow
30-FSIP-no blow back



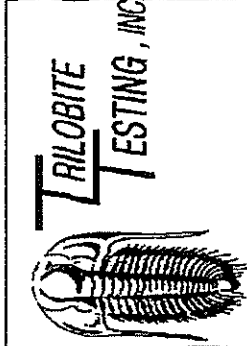
PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.97	114.04	Initial Hydro-static
3	26.31	113.42	Open To Flow (1)
33	89.09	114.63	Shut-in(1)
64	1088.79	117.23	End Shut-in(1)
64	92.60	116.73	Open To Flow (2)
94	113.13	118.08	Shut-in(2)
125	1043.06	119.74	End Shut-in(2)
130	1771.80	118.56	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	O&MCW 5%O5%M0%W	0.30
435.00	GM&WCO 20%G3%M30W47%O	5.01
186.00	GM&WCO 20%G10%M20%W50%O	2.61
186.00	MGO 10%G40%M50%O	2.61
40.00	HO&GOM 5%G40%O55%M	0.56
0.00	20' GP	0.00

* Recovery from multiple tests

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



DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton Ks 67114-8827
 ATTN: Klee Watchous, Jemy

18-15s-25w Trego
 18-3 #1
 Job Ticket: 64231
 DST#: 1
 Test Start: 2018.07.03 @ 14:40:59

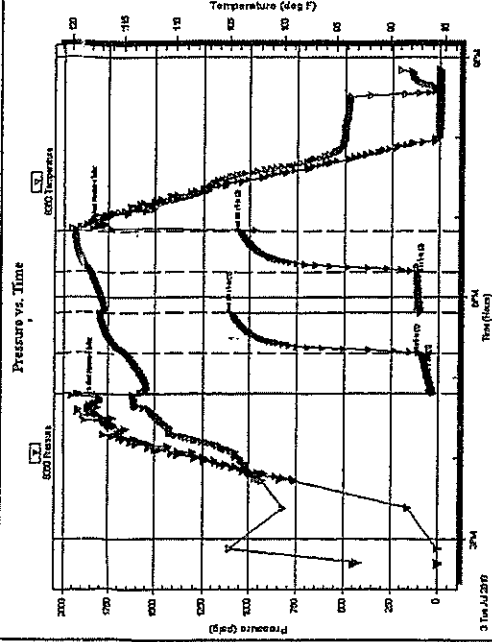
GENERAL INFORMATION:

Formation: LKC H-K
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:48:09
 Time Test Ended: 20:51:08
 Interval: 3868.00 ft (KB) To 3984.00 ft (KB) (TVD)
 Total Depth: 3984.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inchesHole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2407.00 ft (KB)
 2399.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8360 Inside
 Press@RunDepth: 113.13 psig @ 3870.00 ft (KB)
 Start Date: 2018.07.03 End Date:
 Start Time: 14:40:59 End Time:

Capacity: 8000.00 psig
 Last Calib.: 2018.07.03
 Time On Btm: 2018.07.03 @ 16:45:09
 Time Off Btm: 2018.07.03 @ 18:54:54

TEST COMMENT: 30-IFP-wk to a fr blow 1" to 4 1/2" blow
 30-ISIP-no blow back
 30-FFP-wk bl thru-out surface to 2 1/4" blow
 30-FSIP-no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.97	114.04	Initial Hydro-static
3	26.31	113.42	Open To Flow (1)
33	89.09	114.63	Shut-In(1)
64	1088.79	117.23	End Shut-In(1)
64	92.80	116.73	Open To Flow (2)
94	113.13	118.08	Shut-In(2)
125	1043.06	119.74	End Shut-In(2)
130	1771.80	118.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	0.59
80.00	SOCCMW 1%O25%M74%W	0.58
10.00	CO	0.14

Gas Rates

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