

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](mailto: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	BONDURANT UNIT 1
Doc ID	1427935

All Electric Logs Run

Micro
Dual Induction
Litho Density Neutron
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BONDURANT UNIT 1
Doc ID	1427935

Tops

Name	Top	Datum
Anhy.	1650	(+ 733)
Base Anhy.	1690	(+ 693)
Topeka	3452	(-1069)
Heebner	3760	(-1377)
Lansing	3804	(-1421)
BKC	4130	(-1747)
Marmaton	4172	(-1789)
Pawnee	4248	(-1865)
Ft. Scott	4323	(-1940)
Cherokee Sh.	4348	(-1965)
Miss.	4420	(-2037)
LTD	4561	(-2178)







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



# Invoice

DATE	INVOICE #
9/11/2018	31773

**RECEIVED**  
**SEP 15 2018**

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	Bondurant	Ness	Express Well	Oil	Development	Perf Squeeze	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				25	Miles	5.00	125.00
578D-D	Pump Charge - Deep Squeeze (> 1500 Ft.)				1	Job	1,300.00	1,300.00
300 - 15%	Regular Acid				250	Gallons	1.90	475.00
230	Surf-3 ESA-N35 (Losurf 300)				1	Gallon(s)	25.00	25.00
235	INH.1 ESA-28				1	Gallon(s)	40.00	40.00
325	Standard Cement				75	Sacks	13.00	975.00T
286	Halad-1 (Halad 9)				25	Lb(s)	8.00	200.00T
290	D-Air				1	Gallon(s)	42.00	42.00T
581D	Service Charge Cement				75	Sacks	1.75	131.25
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							3,563.25
	Sales Tax Ness County						6.50%	79.11

**We Appreciate Your Business!**

**Total**

\$3,642.36



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

TICKET 031773

PAGE 1 OF

1. <u>Ness City, KS</u>	WELL/PROJECT NO. <u>1</u>	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER	
	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Express Well Service</u>	<u>Ness</u>	<u>KS</u>		<u>9-11-2018</u>		
	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.		
	INVOICE INSTRUCTIONS		JOB PURPOSE <u>Perf Squeeze</u>	WELL PERMIT NO.		WELL LOCATION <u>Ness City, 8w, 55</u>		
4.	REFERRAL LOCATION						<u>E/N into</u>	

PRICE FERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT								
<u>575</u>				<u>TRK #112</u>				<u>25</u>	<u>M</u>	<u>5</u>	<u>125</u>
<u>578</u>				<u>Pump Charge - Deep Squeeze</u>						<u>1300</u>	<u>1300</u>
<u>300</u>				<u>Regular Acid</u>		<u>15%</u>		<u>250</u>	<u>gal</u>	<u>1</u>	<u>415</u>
<u>230</u>				<u>Surf-3</u>				<u>1</u>	<u>gal</u>	<u>25</u>	<u>25</u>
<u>235</u>				<u>Inhib-1</u>				<u>1</u>	<u>gal</u>	<u>40</u>	<u>40</u>
<u>325</u>				<u>Standard Cement</u>				<u>75</u>	<u>sk</u>	<u>13</u>	<u>975</u>
<u>286</u>				<u>Halal-1</u>				<u>25</u>	<u>lb</u>	<u>8</u>	<u>200</u>
<u>290</u>				<u>D-Air</u>				<u>1</u>	<u>gal</u>	<u>42</u>	<u>42</u>
<u>581</u>				<u>Service Charge Cement</u>				<u>75</u>	<u>sk</u>	<u>1</u>	<u>131</u>
<u>582</u>				<u>Minimum Drayage Charge</u>				<u>1</u>	<u>each</u>	<u>250</u>	<u>250</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

DATE SIGNED 9-11-2018 TIME SIGNED 17:00

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

6510

TOTAL

3042.30

SWIFT OPERATOR Richard Tuck 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 9-11-2018 PAGE NO. 1

CUSTOMER Palomino Petroleum WELL NO. 1 LEASE Bondurant unit JOB TYPE Perf squeeze TICKET NO. 031773

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:00							On Location 2 7/8" by 5 1/2"
								Perfs 4454-56 Pkr 4351 4462-64 Spot 4464
	12:00	0	0	✓		3,000		Test tools *Hold*
	12:35	3	26	✓		300		Spot Acid Circulate to Bottom
	13:00	1/2	1	✓		1,100		Set PKR Break down Perfs
		2	2	✓		1,200		
		3	4	✓		900		
	13:05	0	8	✓		500		ISIP 500 lbs.
	13:15							Swab back load
	14:25	0	17		✓	500		Load BS *Hold*
	14:30	3	<del>10</del>	✓		750		Injection Rate
	14:45	2	15	✓		400		Mixed 75 sks STD w/ Haled in first 25 Wash out pump & lines
	15:00	2	0	✓		0		Displace Cement
		2	12	✓		200		Load
		2	25 1/2	✓		2200		Clear PKR
	15:15	0	27	✓		2500		Kickout Pump PKR clear 1 3/4 bbls Shut-in Wash up truck *70 sks in Perfs*
	15:35	0	27	✓		1,100		Open Valve
		0	27	✓		1500		Stage
		0	27	✓		2,000		
		0	27	✓		2,500		
	15:45	0	27	✓		0		Release *Squeezed Hole*
	15:55	2	40	✓		300		Wash through Squeeze / Reverse Clean
	16:20	0	0	✓		1000		Re-Pressure Squeeze
	16:30	0	0	✓		0		Release Pressure *Squeezed Hole*
	16:45							Job Complete Thank you. Gideon Dave, Preston, Kirby

# SWIFT



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



## Invoice

DATE	INVOICE #
9/10/2018	31772

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	Bondurant	Ness	Express Well	Oil	Development	Cement 5 1/2 Por...	David K

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	15	Miles	5.00	75.00
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)	160	Sacks	16.25	2,600.00T
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
582D	Minimum Drayage Charge	1	Each	250.00	250.00
	Subtotal				5,059.00
	Sales Tax Ness County			6.50%	200.46

**We Appreciate Your Business!**

**Total**

\$5,259.46





JOB LOG

SWIFT Services, Inc.

DATE 9-10-18 PAGE NO. 1

CUSTOMER Petroleum Petroleum WELL NO. A1 LEASE Reddant Unit JOB TYPE 5 1/2" Post Cellar TICKET NO. #31772

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							on location 27 3/8 x 5 1/2"
								P.C. - 1649'
	1310	∅	∅		✓		1000	Pressure Test *Hold*
								Open P.C.
	1315	3	4		✓		300	Injection Rate
	1320	4	85		✓		200	mix 160 sks SMD 1/4" Flo @ 11.2 ppq circulate cement to surface *25 sks*
	1350	4	9		✓		300	Displace Cement
	1355	∅	∅		✓		1000	Close P.C. Test *Hold*
								Run 4 Jts
	1410	3 1/2	25		✓		250	Reverse Clean
								Wash up truck
								*160 sks SMD 1/4" Flo Total* *25 sks to Pit*
	1445							Job Complete
								Thank You Dave Preston Gideon



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

# Invoice

DATE	INVOICE #
9/2/2018	27372

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	Bondurant	Ness	WW Drilling Rig #8	Oil	Development	Cement Long Str...	Jonathan
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				10	Miles	5.00	50.00
578D-D	Pump Charge - Deep Squeeze (> 1500 Ft.)				1	Job	1,300.00	1,300.00
290	D-Air				3	Gallon(s)	42.00	126.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
403-5	5 1/2" Cement Basket				1	Each	275.00	275.00T
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
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
409-5	5 1/2" Turbolizer				11	Each	85.00	935.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	16.25	2,031.25T
325	Standard Cement				100	Sacks	13.00	1,300.00T
284	Calseal				5	Sack(s)	35.00	175.00T
283	Salt				550	Lb(s)	0.20	110.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				50	Lb(s)	2.50	125.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							11,371.00
	Sales Tax Ness County						6.50%	609.52

**We Appreciate Your Business!**

**Total**

\$11,980.52





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

TICKET 27372

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Hays, KS</u> 2. <u>Ness City, KS</u> 3. 4.	WELL/PROJECT NO. <u>#1</u>	LEASE <u>Bandurant</u>	COUNTY/PARISH <u>Ness</u>	STATE <u>KS</u>	CITY	DATE <u>09/02/18</u>	OWNER
	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>WW Drilling</u>	RIG NAME/NO. <u>Rig 8</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement Long String</u>	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	10	mi			5.00	50.00
578		1			Pump Charge - Long String	1	EA			1300.00	1300.00
290		1			D-Air	3	gal			42.00	126.00
281		1			Mud Flush	500	gal			1.50	750.00
221		1			Liquid KCL	2	gal			25.00	50.00
403		1			Cement Basket	1	EA	5 1/2"		275.00	275.00
404		1			Port Collar	1	EA			2500.00	2500.00
406		1			Latch Down Plug Baffle	1	EA			250.00	250.00
407		1			Insert Float Shoe w/Auto fill	1	EA			325.00	325.00
409		1			Turbolizer	11	EA			85.00	935.00
419		1			Rotating Head Rental	1	EA			200.00	200.00

**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 [Signature]  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 A.M.  
 P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				Page 1	6761.00
WE UNDERSTOOD AND MET YOUR NEEDS?				PAGE TOTAL	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Page 2	4610.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					11371.00
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			Ness	
				TAX	6510
					609.52
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	11980.52

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

SWIFT OPERATOR [Signature]

APPROVAL \_\_\_\_\_ Thank You!



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

TICKET CONTINUATION

TICKET No. 27372

CUSTOMER *Palomino Petroleum* WELL *Bondurant #1* DATE *09/02/18* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
330		2				<i>Swift Multi Density Std</i>	125	SKS			16 <sup>25</sup>	2831	25
325		2				<i>Standard Cement</i>	100	SKS			13 <sup>00</sup>	1300	00
284		2				<i>Calseal</i>	5	SKS			35 <sup>00</sup>	175	00
283		2				<i>Salt</i>	550	lbs			0 <sup>20</sup>	110	00
285		2				<i>CFR-1</i>	50	lbs			4 <sup>50</sup>	225	00
276		2				<i>Flocele</i>	50	lbs			2 <sup>50</sup>	125	00
581		2				SERVICE CHARGE <i>Cement</i>					1 <sup>25</sup>	393	25
582		2				MILEAGE CHARGE	TOTAL WEIGHT <i>22923</i>	LOADED MILES <i>10</i>	TON MILES <i>Min Drayage IEA</i>		250 <sup>00</sup>	250	00

CONTINUATION TOTAL **4610<sup>00</sup>**

JOB LOG

SWIFT Services, Inc.

DATE 09/02/19 PAGE NO. 1

CUSTOMER *Palomino Petro* WELL NO. #1 LEASE *Bondurant* JOB TYPE *Cement Long String* TICKET NO. 27372

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							On location w/ Float Equipment
								RTD - 4560'
								LTD - 4561'
								Total Pipe Run - 4559' 5 1/2" x 14#
								Shoe Joint - 43.39'
								Insert - 4516'
								Port Collar - 1649', Top of #69
								Turbolizers - 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 468
								Basket - Bottom of #69.
	0800							Start Pipe w/ Float Equipment
	0945							Break Circulation on Bottom
	1045							Hook up to Swift
	1050	2 1/2	7					Plug Rat hole
								<del>Plug Mousehole - No Mousehole</del>
	1100	4	12			400		Start 500 gal Mud Flush
		4	20			350		Pump KCL Spacer
	1105	3				350		Start SMD cement, Mix at 12.5 ppg
		4	36					Fin SMD, start EA-2, Mix at 15.5
	1125	4	60			Vac		Fin Cmt, Shut Down.
	1130							Drop Plug, Wash out Pump + Lines
	1135	7				Vac		Start Displacement
		7	85			400		Catch Cmt
		6 1/2	95			800		Lift 800 Land 1500
	1150	6	110			1500		Land Plug
								Release, Dry
	1155							Wash up truck.
	1210							Rack up
	1215							Job Complete

Thanks  
Jon, Austin, Shane



**RECEIVED**  
**AUG 29 2018**

**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665  
 PHONE:785-324-1041 FAX:785-483-1087  
 EMAIL: cementing@ruraltel.net

**Date:** 8/26/2018  
**Invoice #** 932  
**P.O.#:**  
**Due Date:** 9/25/2018  
**Division:** Russell

# Invoice

**Contact:**  
 Palomino Petroleum Inc  
**Address/Job Location:**

4924 SE 84th  
 Newton Ks 67114

*Bondurant Unit*  
**Reference:**  
 BODURANT UNIT 1 SEC 24-19-25

**Description of Work:**  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 641.27	No				
Common-Class A	130	\$ 1,924.81	Yes				
Calcium Chloride	6	\$ 241.50	Yes				
POZ Mix-Standard	30	\$ 150.94	Yes				
Bulk Truck Matl-Material Service Charge	169	\$ 121.47	No				
Premium Gel (Bentonite)	3	\$ 62.53	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 54.98	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 42.77	No				

**Invoice Terms:**

Net 30

SubTotal: \$ 3,240.27  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (81.01)

	SubTotal for Taxable Items: \$ 2,320.29
	SubTotal for Non-Taxable Items: \$ 838.98
	Total: \$ 3,159.26
	Tax: \$ 150.82

6.50% Ness County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 3,310.08**  
**Applied Payments:**  
**Balance Due: \$ 3,310.08**

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

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

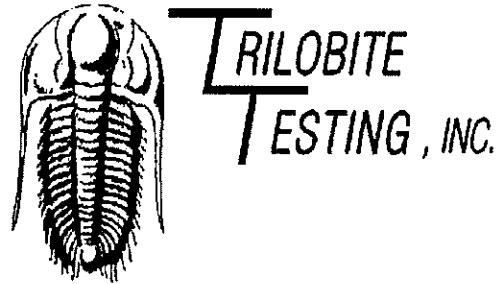
Home Office P.O. Box 32 Russell, KS 67665

No. 232

Date	8-23-18	Sec.	24	Twp.	19	Range	25	County	Ness	State	Kansas	On Location		Finish	5:30 PM		
Location												Lainel					
Lease	Bedurant Unit					Well No.	#1			Owner							
Contractor	W-W DRLLG.					Big #	8			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job	Surface																
Hole Size	12 1/4		T.D.	218		Charge To	Palomino Petroleum Inc)										
Csg.	8 5/8		Depth	218		Street											
Tbg. Size			Depth			City	State										
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.	15'		Shoe Joint			Cement Amount Ordered	160 SK 8/20 3+2										
Meas Line			Displace	12 3/4 BBL													
<b>EQUIPMENT</b>												Common				130	
Pumptrk #17	No.	Cementer	Rick		Helper		Glen		Poz. Mix		30						
Bulktrk #3	No.	Driver	Jim		Driver				Gel.		3						
Bulktrk	No.	Driver			Driver				Calcium		6						
<b>JOB SERVICES &amp; REMARKS</b>												Hulls					
Remarks:											Salt						
Rat Hole											Flowseal						
Mouse Hole											Kol-Seal						
Centralizers											Mud CLR 48						
Baskets											CFL-117 or CD110 CAF 38						
D/V or Port Collar	Slightly Sandy										Sand						
	8 5/8 Surface @ 218'										Handling				168 169		
	Revised Circ.										Mileage						
	Mixed 160 SK 8/20 2+3										<b>FLOAT EQUIPMENT</b>						
	Displaced a total of 12 3/4 BBL										Guide Shoe						
	Cement Did Circulate										Centralizer						
											Baskets						
											AFU Inserts						
											Float Shoe						
											Latch Down						
											Pumptrk Charge				Surface		
											Mileage				17		
											Tax						
											Discount						
											Total Charge						

*THANKS*

X Signature *[Signature]*



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Andrew Stenzel

### **Bondurant Unit #1**

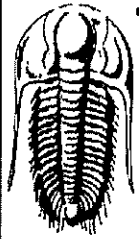
### **24-19s-25w Ness,KS**

Start Date: 2018.08.28 @ 23:59:28

End Date: 2018.08.29 @ 06:48:58

Job Ticket #: 63914                      DST #: 1

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

24-19s-25w Ness, KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63914      DST#: 1

ATTN: Andrew Stenzel

Test Start: 2018.08.28 @ 23:59:28

## GENERAL INFORMATION:

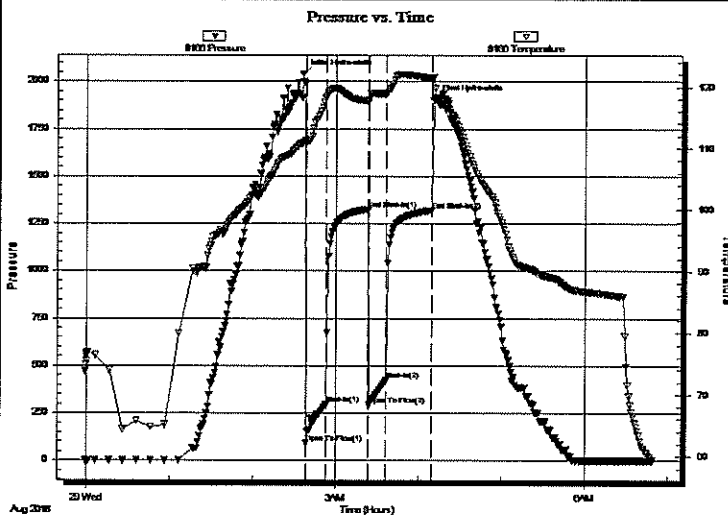
Formation: **LKC J - L**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 02:38:28  
 Time Test Ended: 06:48:58  
 Interval: **4027.00 ft (KB) To 4130.00 ft (KB) (TVD)**  
 Total Depth: 4130.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2383.00 ft (KB)  
 2378.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8166

Outside

Press@RunDepth: 422.60 psig @ 4028.00 ft (KB)  
 Start Date: 2018.08.28      End Date: 2018.08.29  
 Start Time: 23:59:33      End Time: 06:48:57  
 Capacity: 8000.00 psig  
 Last Calib.: 2018.08.29  
 Time On Btm: 2018.08.29 @ 02:35:58  
 Time Off Btm: 2018.08.29 @ 04:11:28

TEST COMMENT: IF: BOB in 3 min. 43"  
 IS: No return.  
 FF: BOB in 4 min. 35"  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2039.97	110.90	Initial Hydro-static
3	89.86	110.82	Open To Flow (1)
17	295.65	118.47	Shut-In(1)
47	1326.14	117.69	End Shut-In(1)
48	292.02	118.00	Open To Flow (2)
61	422.60	118.87	Shut-In(2)
94	1320.00	121.41	End Shut-In(2)
96	1906.65	119.66	Final Hydro-static

## Recovery

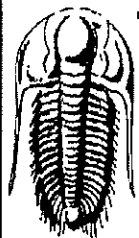
Length (ft)	Description	Volume (bbl)
189.00	mcw 80%w 20%m	1.60
189.00	ocmw 2%o 58%w 40%m	2.65
189.00	ocw m 2%o 48%w 50%m	2.65
272.00	mud 100%m	3.82

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

24-19s-25w Ness,KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63914

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2018.08.28 @ 23:59:28

### Tool Information

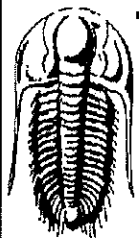
Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 55.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4027.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.00 ft			
Tool Length:	130.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4001.00	
Shut In Tool	5.00			4006.00	
Hydraulic tool	5.00			4011.00	
Jars	5.00			4016.00	
Safety Joint	2.00			4018.00	
Packer	5.00			4023.00	27.00 Bottom Of Top Packer
Packer	4.00			4027.00	
Stubb	1.00			4028.00	
Recorder	0.00	6651	Inside	4028.00	
Recorder	0.00	8166	Outside	4028.00	
Perforations	1.00			4029.00	
Change Over Sub	1.00			4030.00	
Drill Pipe	94.00			4124.00	
Change Over Sub	1.00			4125.00	
Bullnose	5.00			4130.00	103.00 Bottom Packers & Anchor

**Total Tool Length: 130.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc

**24-19s-25w Ness,KS**

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63914

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2018.08.28 @ 23:59:28

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 11.19 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 6000.00 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: 44000 ppm

## Recovery Information

Recovery Table

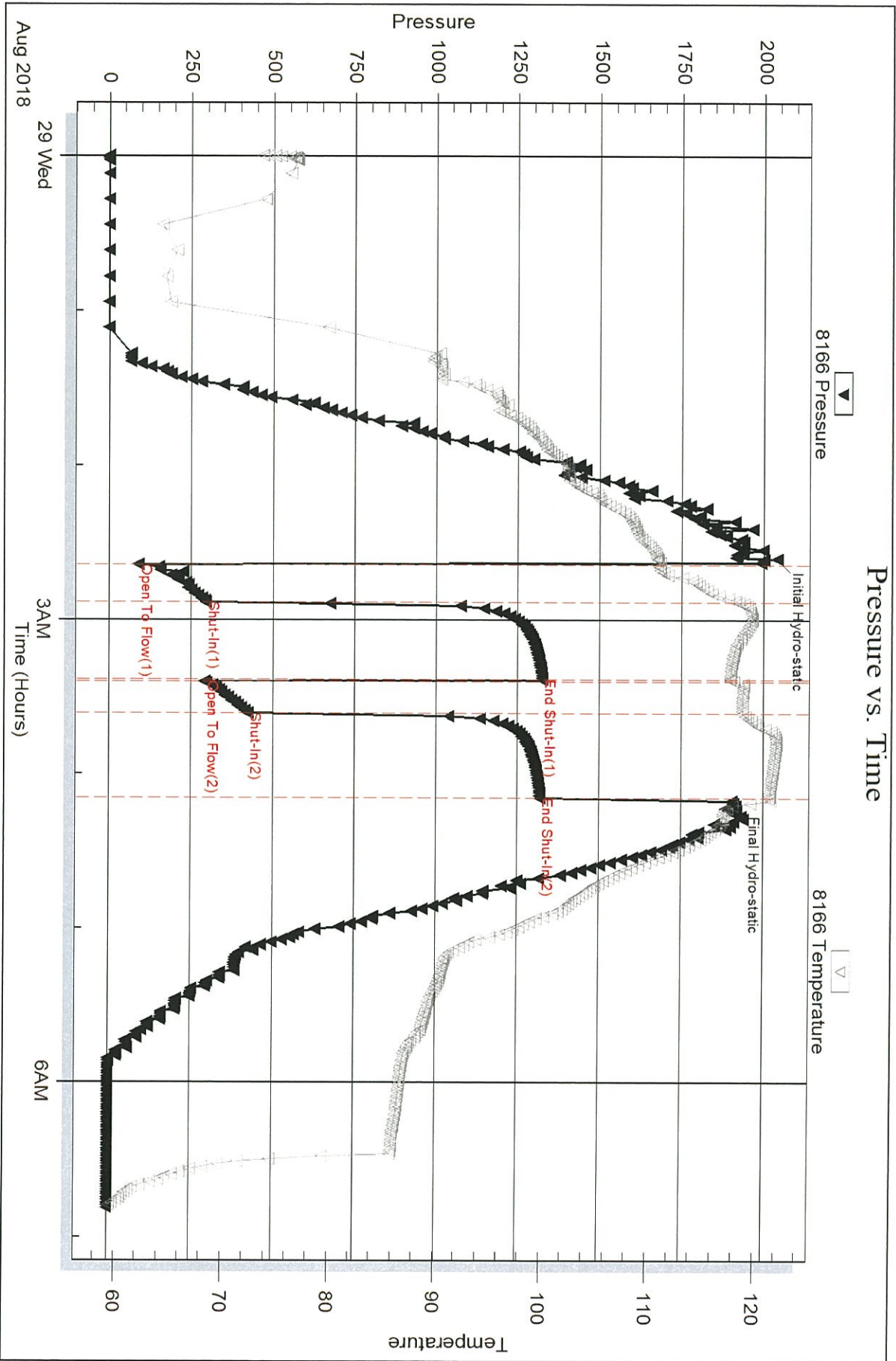
Length ft	Description	Volume bbl
189.00	mcw 80%w 20%m	1.604
189.00	ocmw 2%o 58%w 40%m	2.651
189.00	ocw m 2%o 48%w 50%m	2.651
272.00	mud 100%m	3.815

Total Length: 839.00 ft      Total Volume: 10.721 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: .20@58=440000



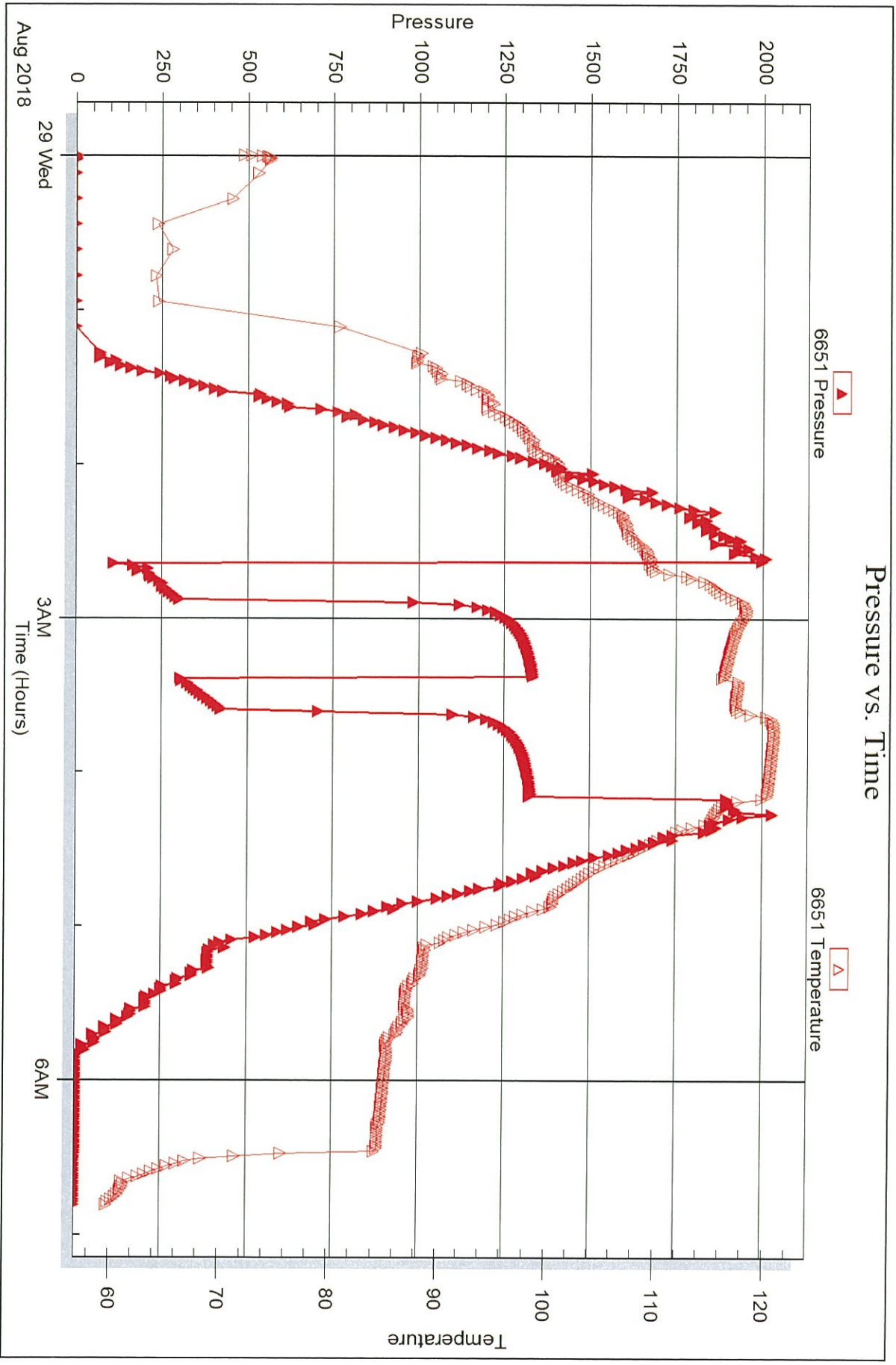
Serial #: 6651

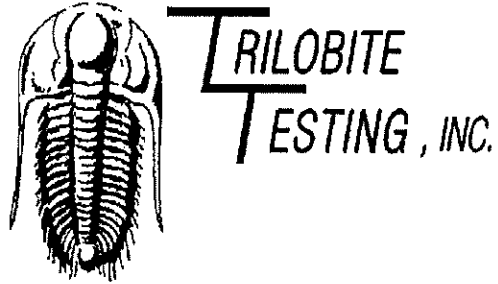
Inside

Palomino Petroleum Inc

Bondurant Unit #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Andrew Stenzel

### **Bondurant Unit #1**

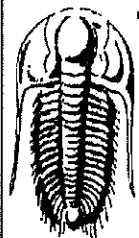
### **24-19s-25w Ness,KS**

Start Date: 2018.08.29 @ 21:33:08

End Date: 2018.08.30 @ 03:14:38

Job Ticket #: 63915                      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  
 4924 SE 84th St  
 New ton, KS 67114  
 ATTN: Andrew Stenzel

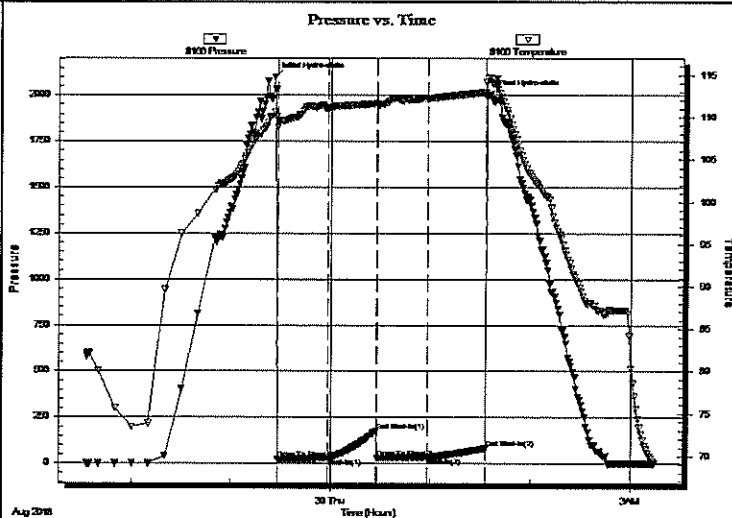
**24-19s-25w Ness,KS**  
**Bondurant Unit #1**  
 Job Ticket: 63915      DST#: 2  
 Test Start: 2018.08.29 @ 21:33:08

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:28:08  
 Time Test Ended: 03:14:38  
 Interval: **4126.00 ft (KB) To 4247.00 ft (KB) (TVD)**  
 Total Depth: 4247.00 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: 2383.00 ft (KB)  
 2378.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: **8166**      Outside  
 Press@RunDepth: 32.33 psig @ 4127.00 ft (KB)  
 Start Date: 2018.08.29      End Date: 2018.08.30  
 Start Time: 21:33:13      End Time: 03:14:37  
 Capacity: 8000.00 psig  
 Last Calib.: 2018.08.30  
 Time On Btm: 2018.08.29 @ 23:26:08  
 Time Off Btm: 2018.08.30 @ 01:35:38

TEST COMMENT: IF: 1" 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	2100.36	110.60	Initial Hydro-static
2	22.17	108.84	Open To Flow (1)
32	27.25	110.96	Shut-In(1)
61	176.79	111.60	End Shut-In(1)
62	28.87	111.50	Open To Flow (2)
92	32.33	112.19	Shut-In(2)
127	81.26	112.96	End Shut-In(2)
130	2007.63	114.15	Final Hydro-static

## Recovery

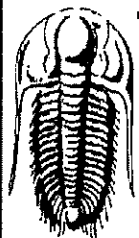
Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

24-19s-25w Ness,KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63915

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2018.08.29 @ 21:33:08

### Tool Information

Drill Pipe:	Length: 3991.00 ft	Diameter: 3.80 inches	Volume: 55.98 bbl	Tool Weight: 2000.00 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: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4126.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	121.00 ft			
Tool Length:	148.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

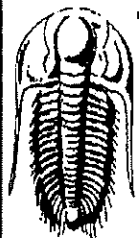
### Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4100.00	
Shut In Tool	5.00			4105.00	
Hydraulic tool	5.00			4110.00	
Jars	5.00			4115.00	
Safety Joint	2.00			4117.00	
Packer	5.00			4122.00	27.00 Bottom Of Top Packer
Packer	4.00			4126.00	
Stubb	1.00			4127.00	
Recorder	0.00	6651	Inside	4127.00	
Recorder	0.00	8166	Outside	4127.00	
Perforations	19.00			4146.00	
Change Over Sub	1.00			4147.00	
Drill Pipe	94.00			4241.00	
Change Over Sub	1.00			4242.00	
Bullnose	5.00			4247.00	121.00 Bottom Packers & Anchor

**Total Tool Length: 148.00**





**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

24-19s-25w Ness,KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63915      DST#: 2

ATTN: Andrew Stenzel

Test Start: 2018.08.29 @ 21:33:08

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 7000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100% <sub>m</sub>	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

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

Laboratory Name:      Laboratory Location:

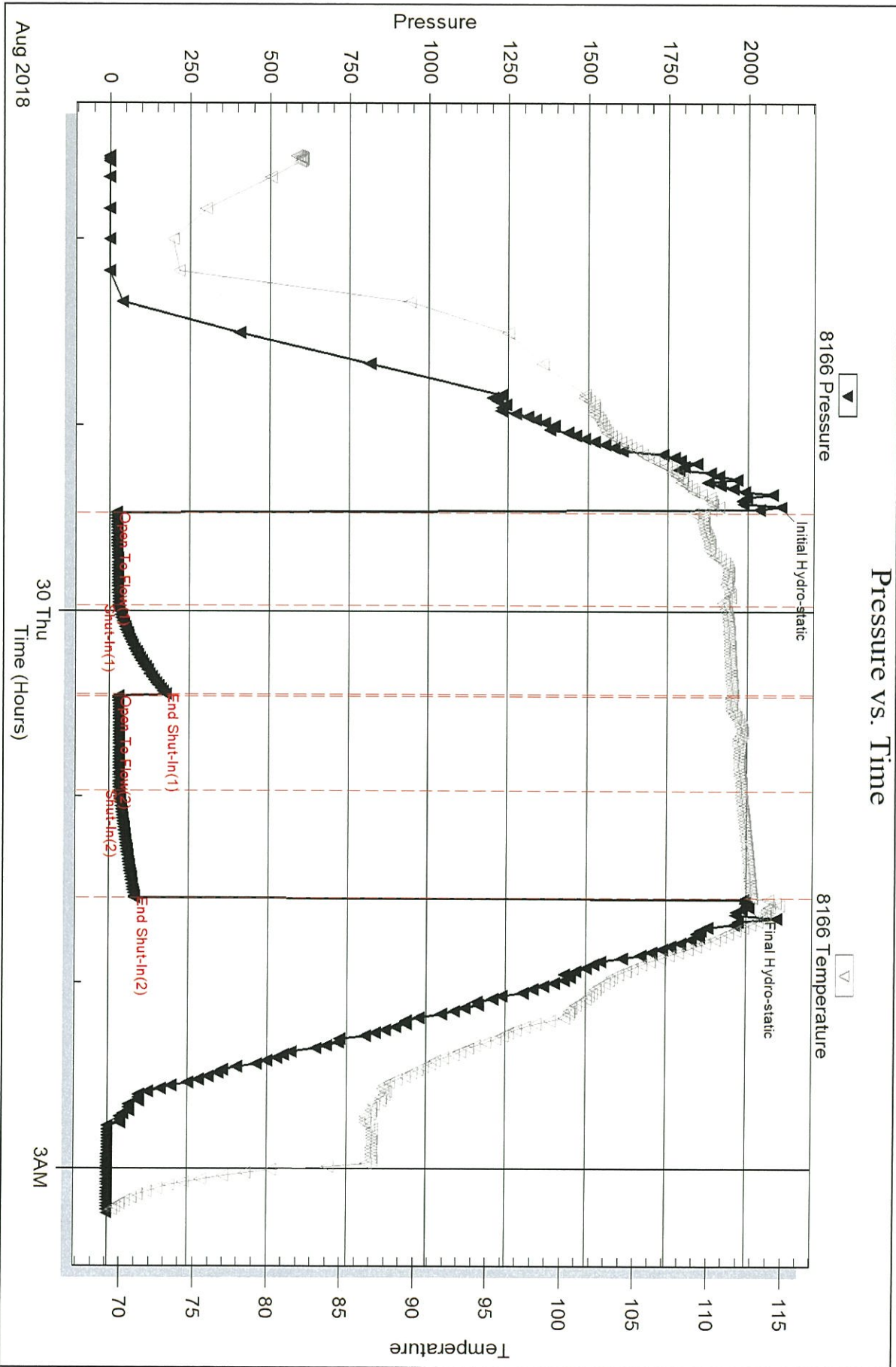
Recovery Comments:

Serial #: 8166

Outside Palomino Petroleum Inc

Bondurant Unit #1

DST Test Number: 2



Tribolite Testing, Inc

Ref. No: 63915

Printed: 2018.09.04 @ 10:42:07

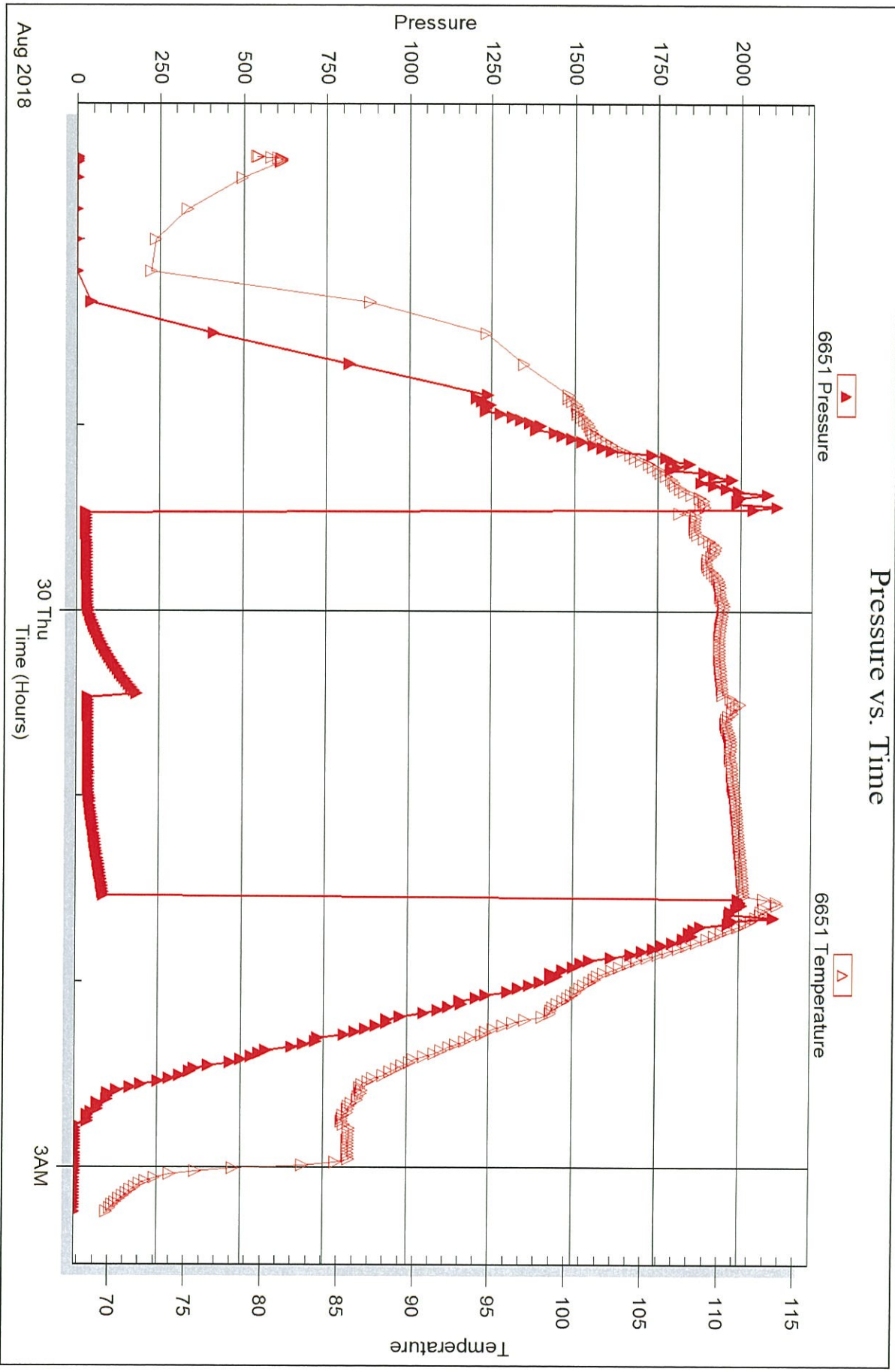
Serial #: 6651

Inside

Palomino Petroleum Inc

Bondurant Unit #1

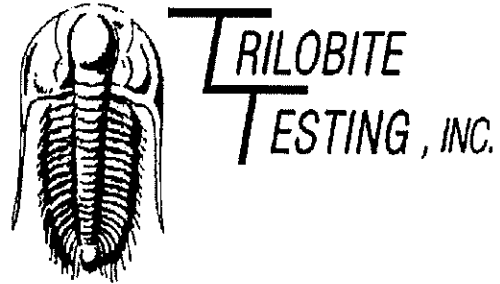
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63915

Printed: 2018.09.04 @ 10:42:07



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Andrew Stenzel

### **Bondurant Unit #1**

### **24-19s-25w Ness,KS**

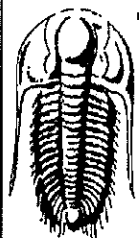
Start Date: 2018.08.30 @ 22:55:05

End Date: 2018.08.31 @ 04:38:35

Job Ticket #: 63916                      DST #: 3

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

Printed: 2018.09.04 @ 10:41:30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

24-19s-25w Ness, KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63916

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2018.08.30 @ 22:55:05

## GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:51:05

Time Test Ended: 04:38:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4301.00 ft (KB) To 4356.00 ft (KB) (TVD)

Total Depth: 4356.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2383.00 ft (KB)

2378.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 43.69 psig @ 4302.00 ft (KB)

Start Date: 2018.08.30

End Date:

2018.08.31

Capacity: 8000.00 psig

Last Calib.:

2018.08.31

Start Time: 22:55:10

End Time:

04:38:34

Time On Btm:

2018.08.31 @ 00:50:05

Time Off Btm:

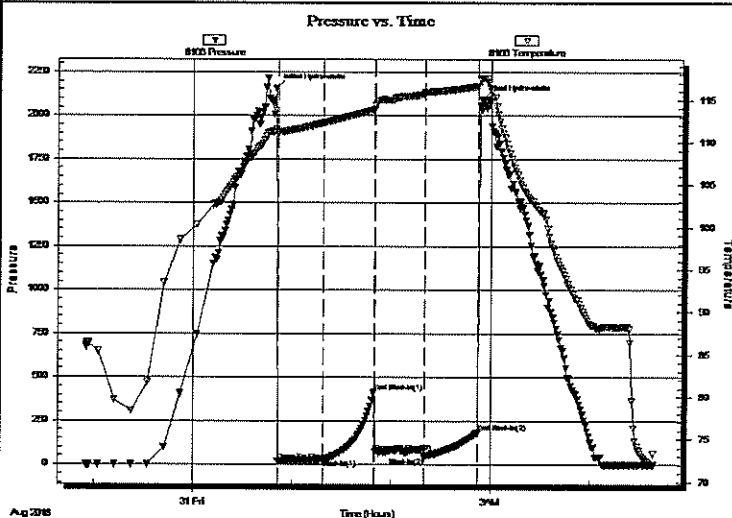
2018.08.31 @ 02:54:35

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

IS: No return.

FF: Surface blow built to 1"

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2158.72	111.58	Initial Hydro-static
1	17.50	111.15	Open To Flow (1)
29	29.30	112.27	Shut-In(1)
60	414.69	113.85	End Shut-In(1)
60	72.51	114.37	Open To Flow (2)
90	43.69	115.78	Shut-In(2)
122	186.50	116.62	End Shut-In(2)
125	2093.92	117.59	Final Hydro-static

## Recovery

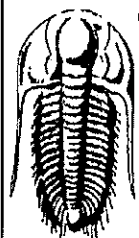
Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 1%o 89%m	0.30

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

24-19s-25w Ness,KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63916

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2018.08.30 @ 22:55:05

### Tool Information

Drill Pipe:	Length: 4176.00 ft	Diameter: 3.80 inches	Volume: 58.58 bbl	Tool Weight:	2000.00 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: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 59.15 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4301.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	82.00 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			4275.00	
Shut In Tool	5.00			4280.00	
Hydraulic tool	5.00			4285.00	
Jars	5.00			4290.00	
Safety Joint	2.00			4292.00	
Packer	5.00			4297.00	27.00 Bottom Of Top Packer
Packer	4.00			4301.00	
Stubb	1.00			4302.00	
Recorder	0.00	6651	Inside	4302.00	
Recorder	0.00	8166	Outside	4302.00	
Perforations	15.00			4317.00	
Change Over Sub	1.00			4318.00	
Drill Pipe	32.00			4350.00	
Change Over Sub	1.00			4351.00	
Bullnose	5.00			4356.00	55.00 Bottom Packers & Anchor

**Total Tool Length: 82.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

24-19s-25w Ness,KS

4924 SE 84th St  
New ton, KS 67114

Bondurant Unit #1

Job Ticket: 63916

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2018.08.30 @ 22:55:05

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 11.99 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 7000.00 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
60.00	gocm 10%g 1%o 89%m	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



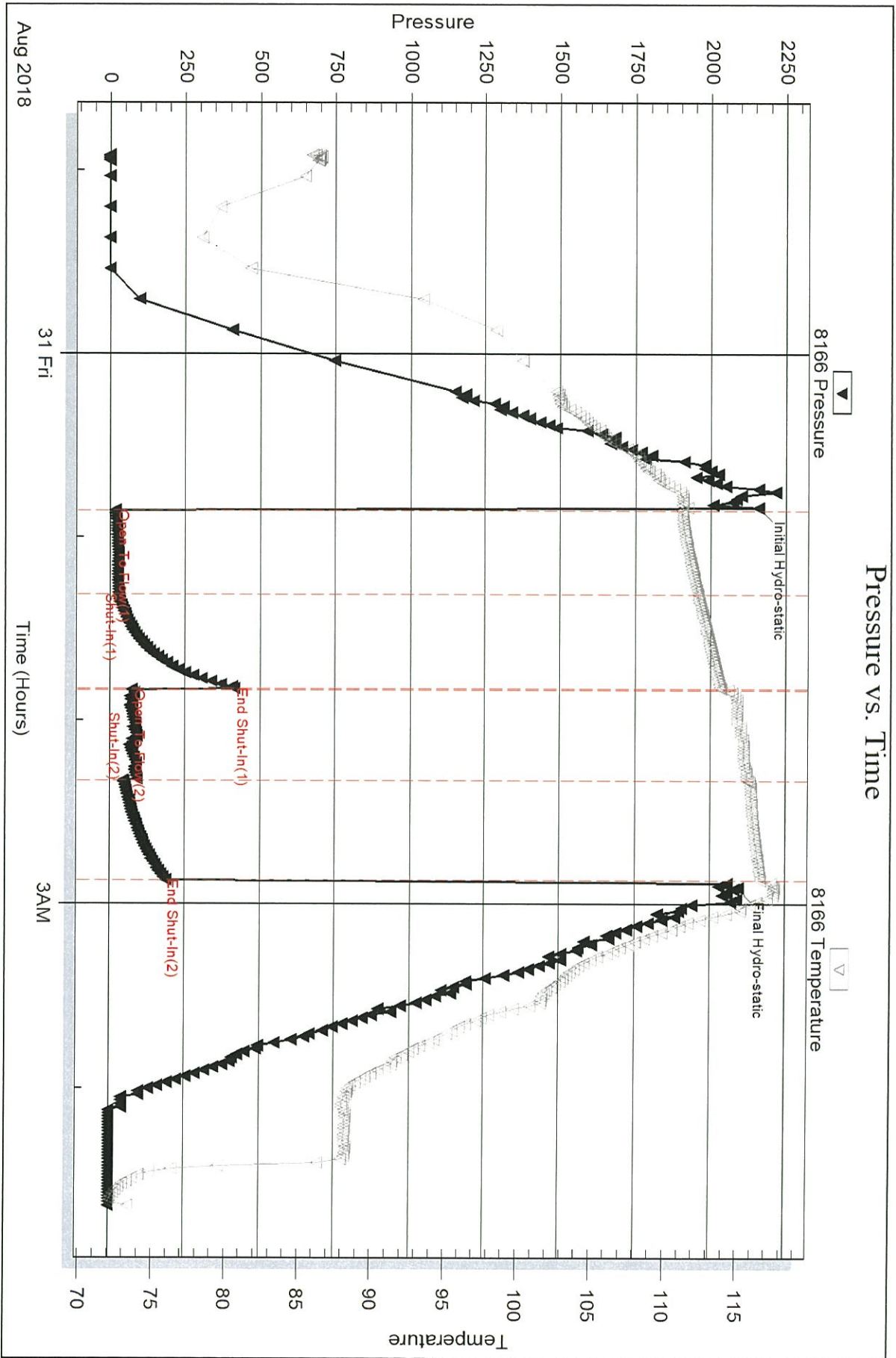
Serial #: 8166

Outside

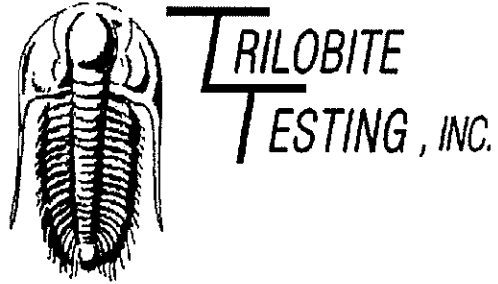
Palomino Petroleum Inc

Bondurant Unit #1

DST Test Number: 3







## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Andrew Stenzel

### **Bondurant Unit #1**

### **24-19s-25w Ness,KS**

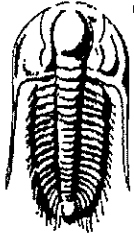
Start Date: 2018.08.31 @ 20:06:38

End Date: 2018.09.01 @ 03:09:38

Job Ticket #: 63917                      DST #: 4

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

Printed: 2018.09.04 @ 10:41:06



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

24-19s-25w Ness, KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63917

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2018.08.31 @ 20:06:38

## GENERAL INFORMATION:

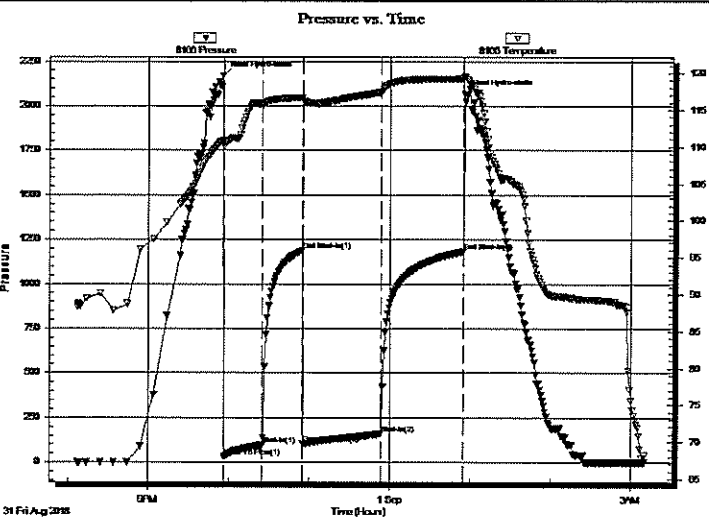
Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:56:38  
 Time Test Ended: 03:09:38  
 Interval: **4346.00 ft (KB) To 4451.00 ft (KB) (TVD)**  
 Total Depth: 4451.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2383.00 ft (KB)  
 2378.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8166

## Outside

Press@RunDepth: 159.06 psig @ 4347.00 ft (KB)  
 Start Date: 2018.08.31 End Date: 2018.09.01  
 Start Time: 20:06:43 End Time: 03:09:37  
 Capacity: 8000.00 psig  
 Last Calib.: 2018.09.01  
 Time On Btm: 2018.08.31 @ 21:55:38  
 Time Off Btm: 2018.09.01 @ 00:55:38

TEST COMMENT: IF: BOB in 24 min. 11 3/4"  
 IS: Surface blow built to 1/4"  
 FF: BOB in 26 min. 23 3/4"  
 FS: Surface blow built to 3/4" died to 1/2"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.54	110.86	Initial Hydro-static
1	28.46	110.11	Open To Flow (1)
30	95.10	115.67	Shut-In(1)
59	1188.39	116.66	End Shut-In(1)
60	102.44	116.26	Open To Flow (2)
118	159.06	117.41	Shut-In(2)
180	1182.50	119.27	End Shut-In(2)
180	2067.68	119.64	Final Hydro-static

## Recovery

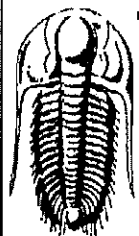
Length (ft)	Description	Volume (bbl)
126.00	gocm 20%g 30%o 50%m	0.72
126.00	mcgo 20%g 40%o 40%m	1.77
126.00	go 10%g 90%o	1.77
0.00	189 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum Inc

**24-19s-25w Ness,KS**

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63917

**DST#: 4**

ATTN: Andrew Stenzel

Test Start: 2018.08.31 @ 20:06:38

### Tool Information

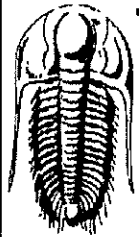
Drill Pipe:	Length: 4235.00 ft	Diameter: 3.80 inches	Volume: 59.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4346.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	132.00 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			4320.00	
Shut In Tool	5.00			4325.00	
Hydraulic tool	5.00			4330.00	
Jars	5.00			4335.00	
Safety Joint	2.00			4337.00	
Packer	5.00			4342.00	27.00 Bottom Of Top Packer
Packer	4.00			4346.00	
Stubb	1.00			4347.00	
Recorder	0.00	6651	Inside	4347.00	
Recorder	0.00	8166	Outside	4347.00	
Perforations	3.00			4350.00	
Change Over Sub	1.00			4351.00	
Drill Pipe	94.00			4445.00	
Change Over Sub	1.00			4446.00	
Bullnose	5.00			4451.00	105.00 Bottom Packers & Anchor

**Total Tool Length: 132.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

24-19s-25w Ness, KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63917

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2018.08.31 @ 20:06:38

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 11.59 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 8200.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 38 deg API  
Water Salinity: 0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	gocm 20%g 30%o 50%m	0.720
126.00	mcgo 20%g 40%o 40%m	1.767
126.00	go 10%g 90%o	1.767
0.00	189 GIP	0.000

Total Length: 378.00 ft      Total Volume: 4.254 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: 38@60=38

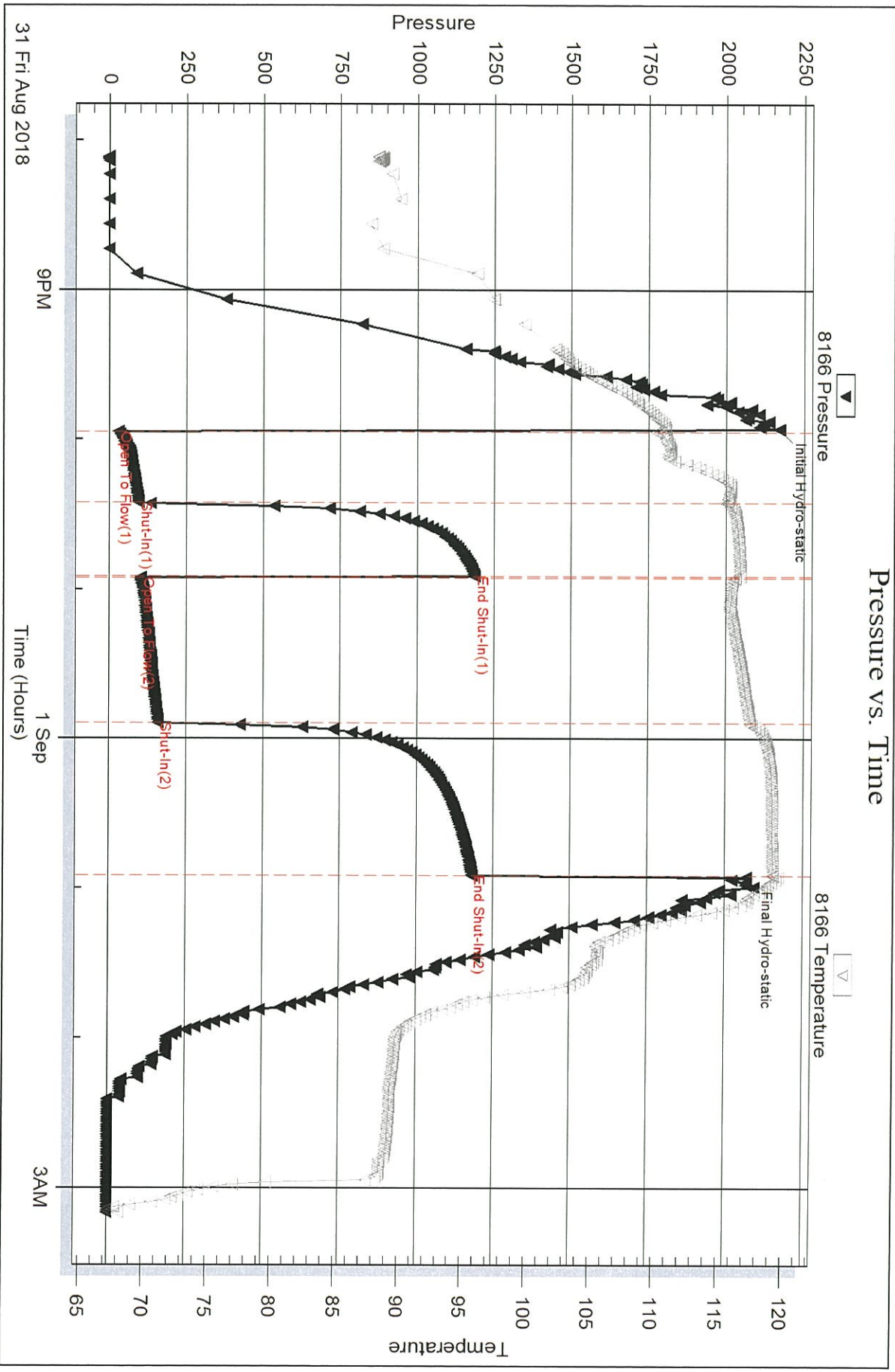
Serial #: 8166

Outside

Palomino Petroleum Inc

Bondurant Unit #1

DST Test Number: 4





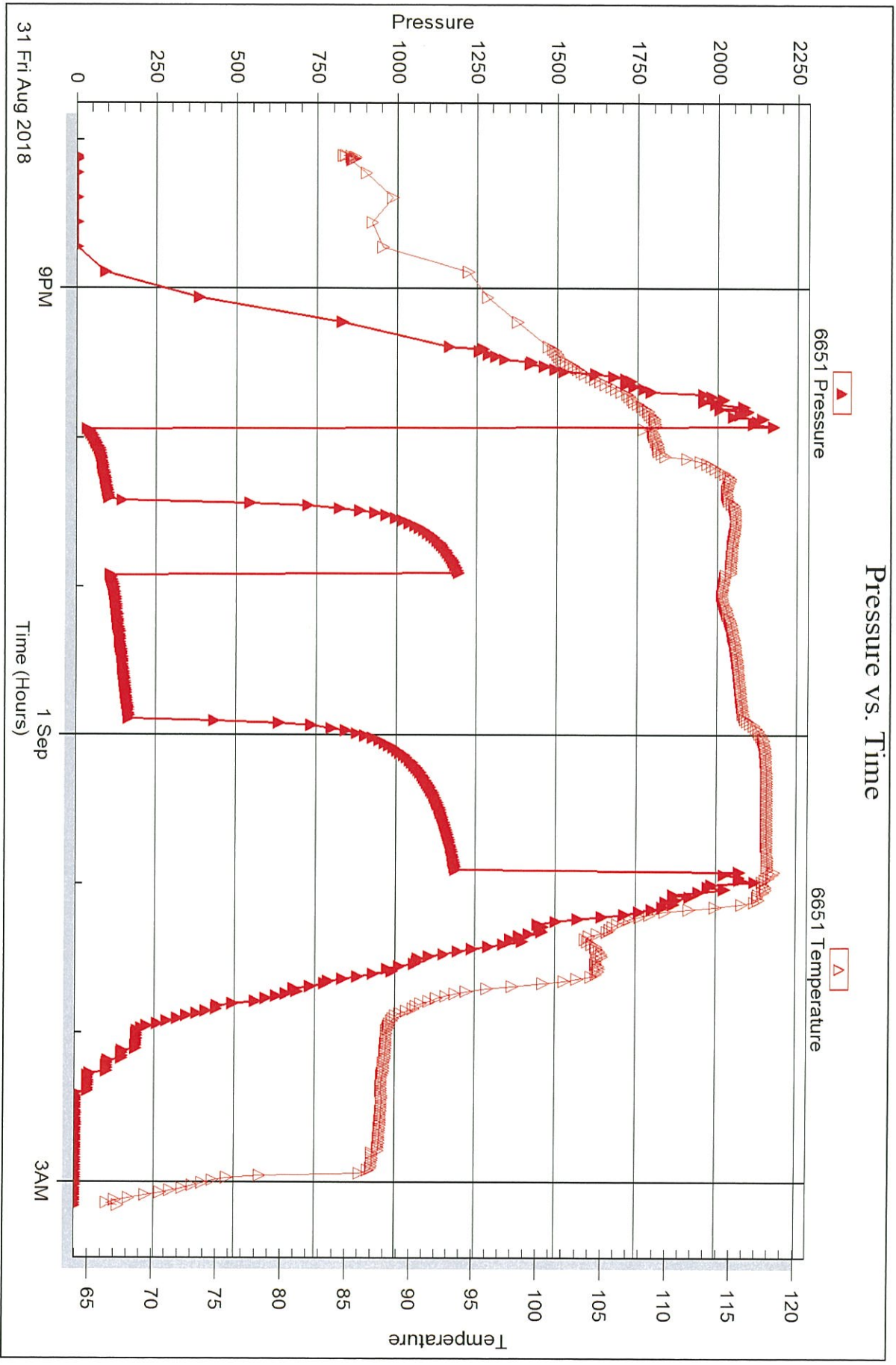
Serial #: 6651

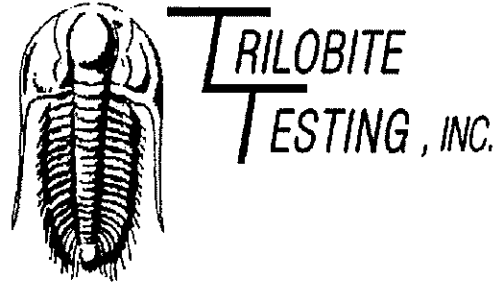
Inside

Palomino Petroleum Inc

Bondurant Unit #1

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Andrew Stenzel

### **Bondurant Unit #1**

### **24-19s-25w Ness,KS**

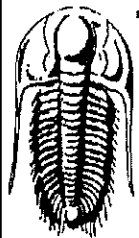
Start Date: 2018.09.01 @ 18:04:58

End Date: 2018.09.01 @ 23:52:58

Job Ticket #: 63918                      DST #: 5

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

Printed: 2018.09.04 @ 10:40:09



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

24-19s-25w Ness, KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63918

DST#: 5

ATTN: Andrew Stenzel

Test Start: 2018.09.01 @ 18:04:58

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:51:58

Time Test Ended: 23:52:58

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4453.00 ft (KB) To 4469.00 ft (KB) (TVD)**

Total Depth: 4561.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2383.00 ft (KB)

2378.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8166**

Outside

Press@RunDepth: 216.90 psig @ 4454.00 ft (KB)

Start Date: 2018.09.01

End Date:

2018.09.01

Capacity: 8000.00 psig

Last Calib.: 2018.09.01

Start Time: 18:05:03

End Time:

23:52:57

Time On Btm: 2018.09.01 @ 19:50:58

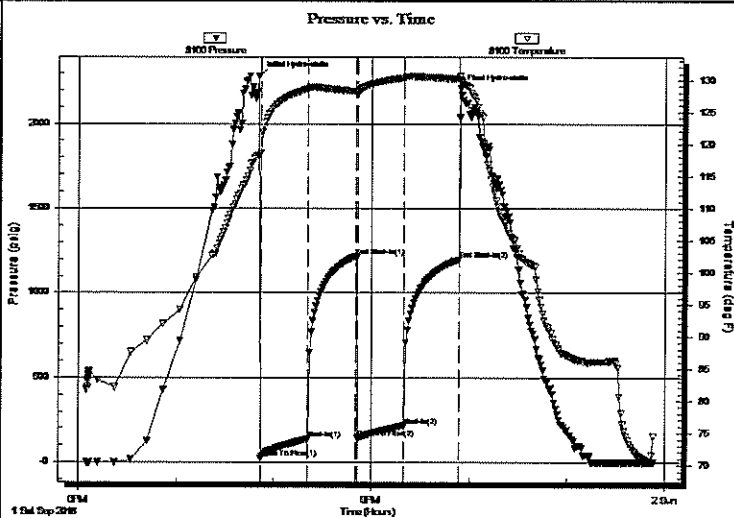
Time Off Btm: 2018.09.01 @ 21:54:28

TEST COMMENT: IF: BOB in 15 min. 16 1/2"

IS: No return.

FF: BOB in 19 min. 14"

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2282.89	118.30	Initial Hydro-static
1	27.12	118.58	Open To Flow (1)
30	137.28	128.62	Shut-In(1)
60	1217.45	128.24	End Shut-In(1)
61	143.51	127.85	Open To Flow (2)
89	216.90	130.33	Shut-In(2)
123	1198.24	130.12	End Shut-In(2)
124	2207.17	129.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
378.00	mcw 95%w 5%m	4.25
94.00	mcw 60%w 40%m	1.32

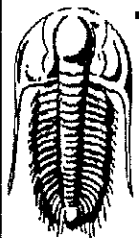
## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

24-19s-25w Ness,KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63918

DST#: 5

ATTN: Andrew Stenzel

Test Start: 2018.09.01 @ 18:04:58

### Tool Information

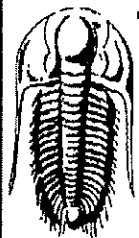
Drill Pipe:	Length: 4339.00 ft	Diameter: 3.80 inches	Volume: 60.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4453.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	134.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4432.00	
Shut In Tool	5.00			4437.00	
Hydraulic tool	5.00			4442.00	
Safety Joint	2.00			4444.00	
Packer	5.00			4449.00	22.00 Bottom Of Top Packer
Packer	4.00			4453.00	
Stubb	1.00			4454.00	
Recorder	0.00	6651	Inside	4454.00	
Recorder	0.00	8166	Outside	4454.00	
Perforations	9.00			4463.00	
Blank Off Sub	1.00			4464.00	
Packer - Shale	5.00			4469.00	
Packer - Shale	4.00			4473.00	
Stubb	1.00			4474.00	
Perforations	21.00			4495.00	
Change Over Sub	1.00			4496.00	
Drill Pipe	63.00			4559.00	
Recorder	0.00	8650	Below	4559.00	
Change Over Sub	1.00			4560.00	
Bullnose	5.00			4565.00	112.00 Bottom Packers & Anchor

**Total Tool Length: 134.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc

24-19s-25w Ness,KS

4924 SE 84th St  
New ton, KS 67114

**Bondurant Unit #1**

Job Ticket: 63918

DST#: 5

ATTN: Andrew Stenzel

Test Start: 2018.09.01 @ 18:04:58

## 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:

17000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
378.00	mcw 95%w 5%m	4.255
94.00	mcw 60%w 40%m	1.319

Total Length: 472.00 ft

Total Volume: 5.574 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .38@74=17000

Serial #: 8166

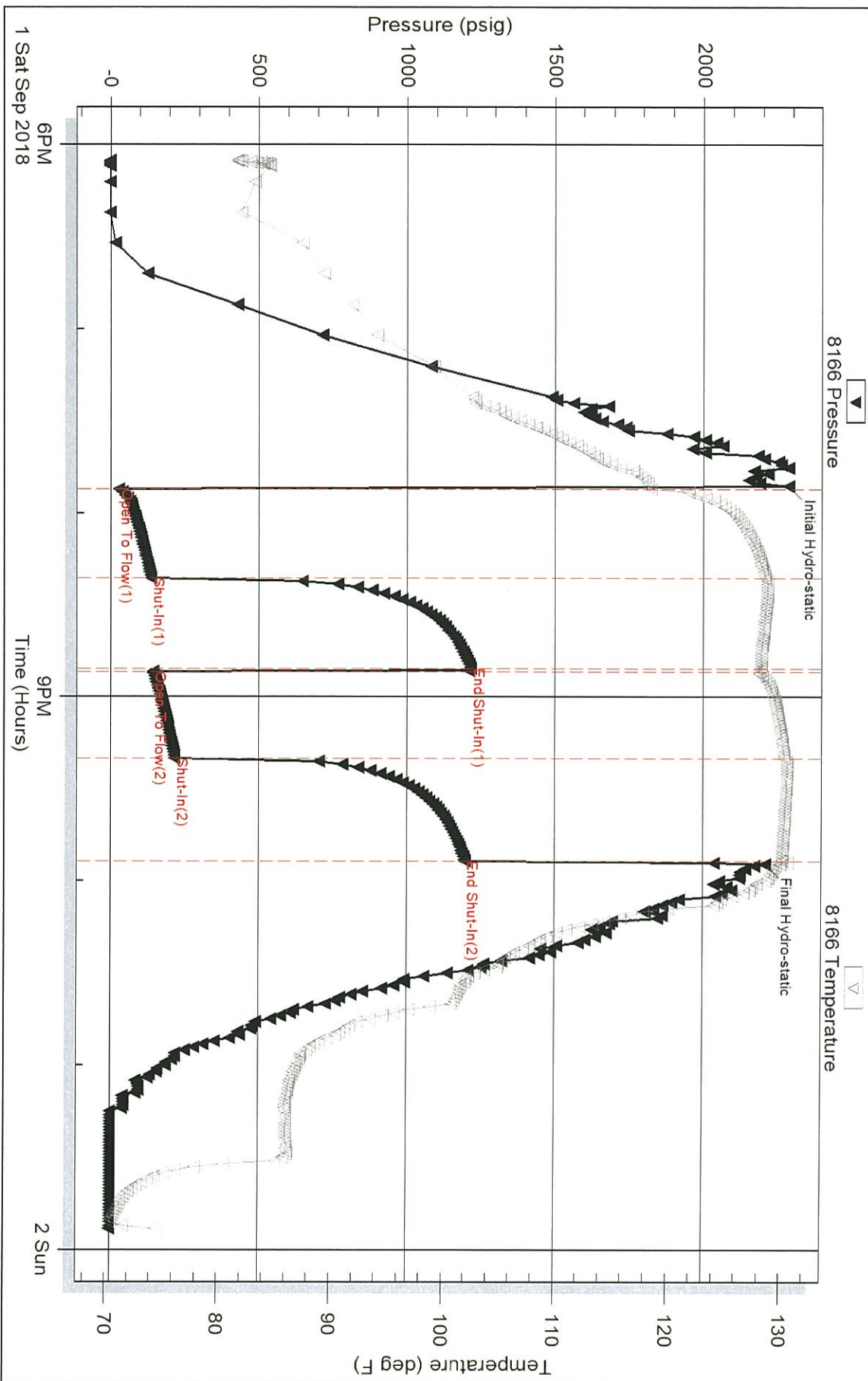
Outside

Palomino Petroleum Inc

Bondurant Unit #1

DST Test Number: 5

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63918

Printed: 2018.09.04 @ 10:40:10



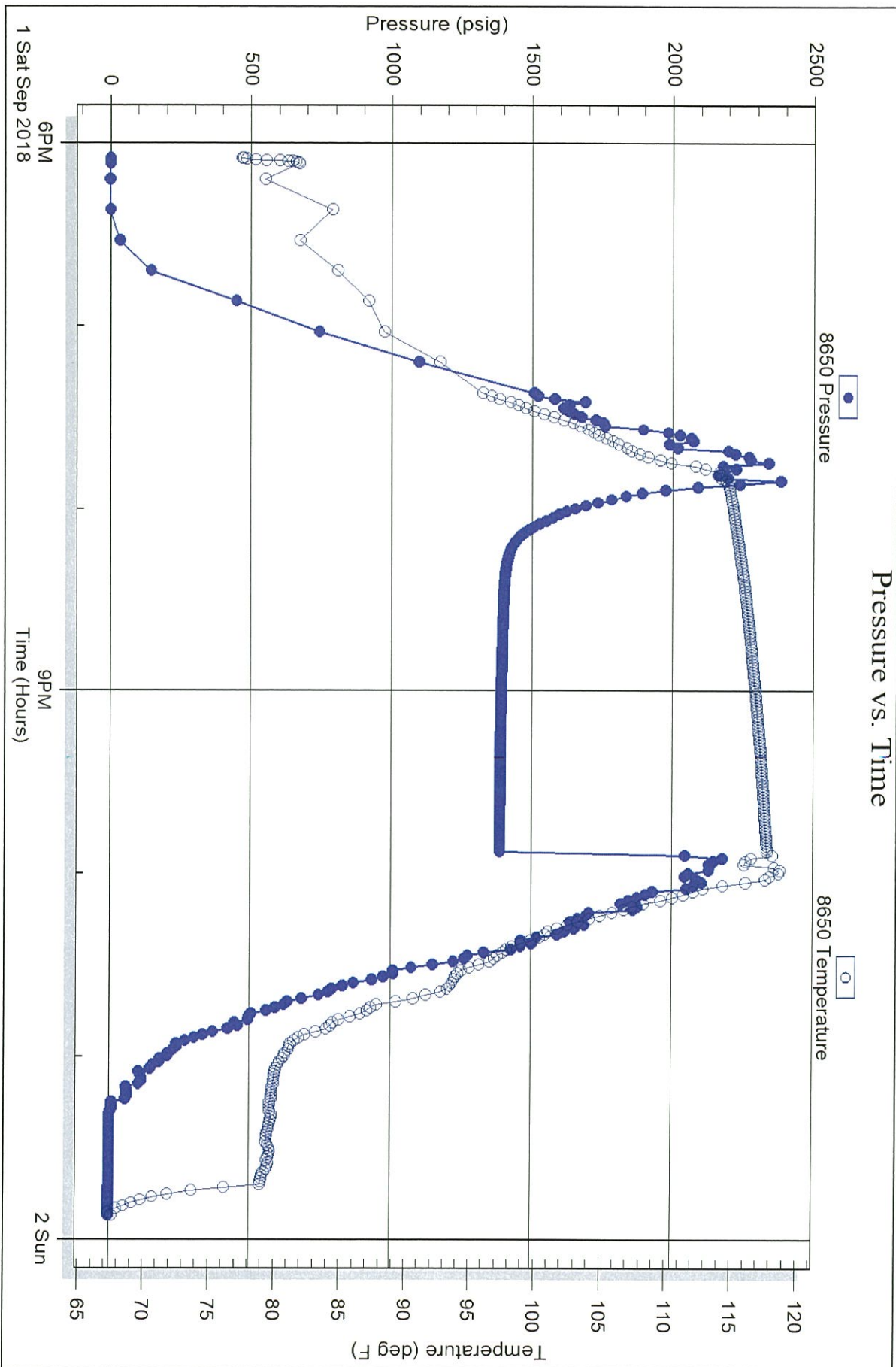


Serial #: 8650

Below (Stratton) Petroleum Inc

Bondurant Unit #1

DST Test Number: 5







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63914**

Well Name & No. Bondurant unit #1 Test No. 1 Date 8-28-18  
 Company Pyromino Petroleum Inc Elevation 2583 KB 2378 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Andrew Stenzel Rig WW #8  
 Location: Sec. 24 Twp. 19S Rge. 25W Co. Ness State KS

Interval Tested 4027 4130 Zone Tested LKC JKL  
 Anchor Length 103 Drill Pipe Run 3894 Mud Wt. 9.1  
 Top Packer Depth 4022 Drill Collars Run 115 Vis 56  
 Bottom Packer Depth 4027 Wt. Pipe Run — WL 11.2  
 Total Depth 4130 Chlorides 6000 ppm System LCM 1

Blow Description EF: BoB in 3 min. 43"  
IS: No return.  
KF: BoB in 4 min. 35"  
IS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>272</u>	<u>mud</u>			<u>100</u>	
<u>189</u>	<u>ocwm</u>		<u>2</u>	<u>48</u>	<u>50</u>
<u>189</u>	<u><del>ocwm</del> ocmw</u>	<u>2</u>		<u>58</u>	<u>40</u>
<u>189</u>	<u>mcw</u>		<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 839 BHT 121 Gravity — API RW .20 @ 58 °F Chlorides 44,000 ppm

(A) Initial Hydrostatic 2039  Test 1150 T-On Location 21:45  
 (B) First Initial Flow 89  Jars 250 T-Started 23:59  
 (C) First Final Flow 295  Safety Joint 75 T-Open 2:38  
 (D) Initial Shut-In 1326  Circ Sub N/C T-Pulled 4:08  
 (E) Second Initial Flow 292  Hourly Standby \_\_\_\_\_ T-Out 6:51  
 (F) Second Final Flow 422  Mileage 130 - 130 Comments \_\_\_\_\_  
 (G) Final Shut-In 1320  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1906  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30  
 Sub Total 0  
 Total 1605  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1605

Approved By Andrew Stenzel Our Representative [Signature]

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. **63915**

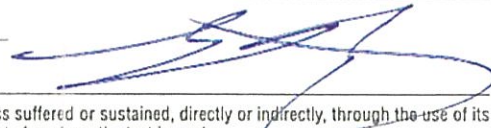
Well Name & No. Bondurant unit #1 Test No. 2 Date 8-29-18  
 Company Palomino Petroleum Inc Elevation 2383 KB 2378 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW #8  
 Location: Sec. 24 Twp. 19S Rge. 25W Co. Ness State KS

Interval Tested 4126 ~~4250~~ ~~417~~ Zone Tested Morrison  
 Anchor Length 129 Drill Pipe Run 3991 Mud Wt. 9.0  
 Top Packer Depth 4121 Drill Collars Run 115 Vis 50  
 Bottom Packer Depth 4126 Wt. Pipe Run \_\_\_\_\_ WL 12.0  
 Total Depth 4250 ~~417~~ Chlorides 7000 ppm System LCM 1  
 Blow Description EF: 1" blow built to 1 1/2.  
IS: No return.  
FF: No blow.  
FS: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</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 10 BHT 113 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2100</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>20:45</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>21:33</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:28</u>
(D) Initial Shut-In <u>176</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>1:28</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:16</u>
(F) Second Final Flow <u>32</u>	<input checked="" type="checkbox"/> Mileage <u>130</u> - 130	Comments _____
(G) Final Shut-In <u>81</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2007</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1605</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1605</u>	

Approved By \_\_\_\_\_ Our Representative 

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63916**

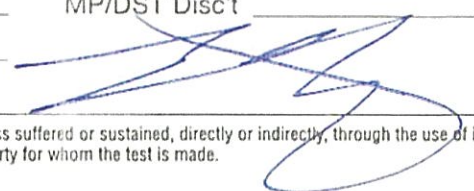
Well Name & No. Bondurant unit #1 Test No. 3 Date 8-30-18  
 Company Palomino Petroleum Inc Elevation 2383 KB 2378 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW#8  
 Location: Sec. 24 Twp. 19S Rge. 25W Co. Ness State KS

Interval Tested 4301 4356 Zone Tested Ft. Scott  
 Anchor Length 55 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.1  
 Top Packer Depth 4296 Drill Collars Run 115 Vis 47  
 Bottom Packer Depth 4301 Wt. Pipe Run \_\_\_\_\_ WL 12.0  
 Total Depth 4356 Chlorides 2100 ppm System LCM 1  
 Blow Description IF! 1/2 blow built to 2 1/2.  
IS! No return.  
FF! surface blow built to 1.  
FS! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>gocm</u>	<u>10</u>	<u>1</u>	<u>89</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

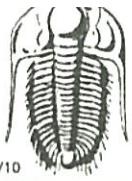
Rec Total 60 BHT 117 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2158</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>21:45</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:55</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>00:50</u>
(D) Initial Shut-In <u>414</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2:50</u>
(E) Second Initial Flow <u>72</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:40</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>130</u> - 130	Comments _____
(G) Final Shut-In <u>186</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2093</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1605</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1605</u>	

Approved By \_\_\_\_\_ Our Representative 

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63917**

Well Name & No. Bondurant unit #1 Test No. 4 Date 8-31-18  
 Company Pyromino Petroleum Inc Elevation 2383 KB 2378 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig uaw #8  
 Location: Sec. 24 Twp. 19S Rge. 25W Co. Ness State KS

Interval Tested 4346 4451 Zone Tested M.55  
 Anchor Length 105 Drill Pipe Run 4235 Mud Wt. 9.2  
 Top Packer Depth 4341 Drill Collars Run 115 Vis 58  
 Bottom Packer Depth 4346 Wt. Pipe Run \_\_\_\_\_ WL 11.6  
 Total Depth 4451 Chlorides 8200 ppm System LCM 2

Blow Description IF: BoB in 24 min. 11 3/4.  
IS: surface blow built to 1/4.  
FF: BoB in 26 min. 23 3/4.  
FS: surface blow built to 3/4 died in 1/2.

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>126</u>	<u>MC90</u>	<u>20</u>	<u>40</u>		<u>40</u>
<u>126</u>	<u>90cm</u>	<u>20</u>	<u>30</u>		<u>50</u>
<u>189</u>	<u>6FP</u>				

Rec Total 378 BHT 119 Gravity 38 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2169  Test 1150 T-On Location 19:20  
 (B) First Initial Flow 28  Jars 250 T-Started 20:06  
 (C) First Final Flow 95  Safety Joint 75 T-Open 21:55  
 (D) Initial Shut-In 1188  Circ Sub NCL T-Pulled 00:55  
 (E) Second Initial Flow 102  Hourly Standby \_\_\_\_\_ T-Out 3:15  
 (F) Second Final Flow 159  Mileage 130 - 130 Comments \_\_\_\_\_  
 (G) Final Shut-In 1182  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2067  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_  
 Final Flow 60  Day Standby \_\_\_\_\_  
 Final Shut-In 60  Accessibility \_\_\_\_\_  
 Sub Total 1605

Approved By And K/M Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63918**

Well Name & No. Bondurant unit #1 Test No. 5 Date 9-1-18  
 Company Palomino Petroleum Inc Elevation 2383 KB 2378 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Andrew Stenzel Rig WW #8  
 Location: Sec. 24 Twp. 19S Rge. 25W Co. NESS State KS

Interval Tested 4453 4469 Zone Tested MISS  
 Anchor Length \_\_\_\_\_ Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.0  
 Top Packer Depth \_\_\_\_\_ Drill Collars Run 115 Vis 52  
 Bottom Packer Depth \_\_\_\_\_ Wt. Pipe Run \_\_\_\_\_ WL 10.0  
 Total Depth 4561 Chlorides 7300 ppm System LCM 1  
 Blow Description IF: BoB in 15 min. 16 1/2"!!  
IS: No return.  
FF: BoB in 19 min. 14"  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>94</u>	<u>wcm</u>		<u>60</u>	<u>40</u>	
<u>378</u>	<u>MLW</u>		<u>95</u>	<u>5</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 472 BHT 130 Gravity \_\_\_\_\_ API RW .38 @ 78° F Chlorides 17,000 ppm

(A) Initial Hydrostatic 2282  Test 1150 T-On Location 17:30  
 (B) First Initial Flow 27  Jars 250 T-Started 18:04  
 (C) First Final Flow 137  Safety Joint 75 T-Open 19:51  
 (D) Initial Shut-In 1217  Circ Sub NIL T-Pulled 21:51  
 (E) Second Initial Flow 143  Hourly Standby \_\_\_\_\_ T-Out 23:55  
 (F) Second Final Flow 216  Mileage 130 - 130 Comments \_\_\_\_\_  
 (G) Final Shut-In 1198  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2207  Straddle 600  Ruined Shale Packer 350  
 Shale Packer 2x 500  Ruined Packer 320  
 Extra Packer 200  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 670  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 3575  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 2905

Approved By \_\_\_\_\_ Our Representative [Signature]  
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Home  
(785) 798-3400

# Andrew Stenzel Geologist

Ness City, Kansas



Cell  
(785) 798-5977

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

Well Name: Bondurant Unit #1  
API: 15-35-26015-00-00  
Location: SW-SW-SW-NE Sec. 24-19S-25W  
License Number: 30742  
Spud Date: 8/23/2018  
Surface Coordinates: 2352' FNL & 2562' FEL

Region: KANSAS  
Drilling Completed: 9/2/18

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2378  
Logged Interval (ft): 3400 To: TD  
Formation: MISSISSIPPIAN  
Type of Drilling Fluid: Mud-Co Chemical

K.B. Elevation (ft): 2383  
Total Depth (ft): 4561

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

## OPERATOR

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

## GEOLOGIST

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

## Drilling Report

### DAILY DRILLING REPORT:

8/23/18 MIRU, ran surface casing  
8/24/18 Drilling @ 640'  
8/25/18 Drilling @ 2085'  
8/26/18 Drilling @ 2850'  
8/27/18 Drilling @ 3438'  
8/28/18 Drilling @ 3972'  
8/29/18 DST #1  
8/30/18 DST #2  
8/31/18 DST #3  
9/1/18 DST #4, ran electric logs, DST #5  
9/2/18 Ran production casing

## Services

RIG: WW Drilling, Rig #8

MUD: MUDCO

LOGS: Gemini Wireline; CNDL, DIL, ML

**Casing Record**

**SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing @ 218'**

**PRODUCTION Casing: Ran 108 jts new 5 1/2", 14# casing @ 4557'**

**Formation Tops**

Sample Tops		LogTops	
Anhy.	1655 (+728)	Anhy.	1650 (+733)
Base Anhy.	1693 (+690)	Base Anhy.	1690 (+693)
Topeka	3454 (-1071)	Topeka	3452 (-1069)
Heebner	3762 (-1379)	Heebner	3760 (-1377)
Lansing	3805 (-1422)	Lansing	3804 (-1421)
BKC	4129 (-1746)	BKC	4130 (-1747)
Marmaton	4177 (-1794)	Marmaton	4172 (-1789)
Pawnee	4240 (-1857)	Pawnee	4248 (-1865)
Ft. Scott	4323 (-1940)	Ft. Scott	4323 (-1940)
Cher. Sh.	4348 (-1965)	Cher. Sh.	4348 (-1965)
Miss.	4425 (-2042)	Miss.	4420 (-2037)
RTD	4560 (-2177)	LTD	4561 (-2178)



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Palomino Petroleum Inc

4924 SE 84th St  
Newton, Ks 67114

ATTN: Andrew Stenzel

**24-19s-25w Ness KS**

**Bondurant Unit #1**

Job Ticket: 63914      **DST#: 1**

Test Start: 2018.08.28 @ 23:59:28

**GENERAL INFORMATION:**

Formation: **LKC JKL**

Deviated: No Whipstock      ft (KB)

Time Tool Opened: 02:38:28

Time Test Ended: 06:48:58

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

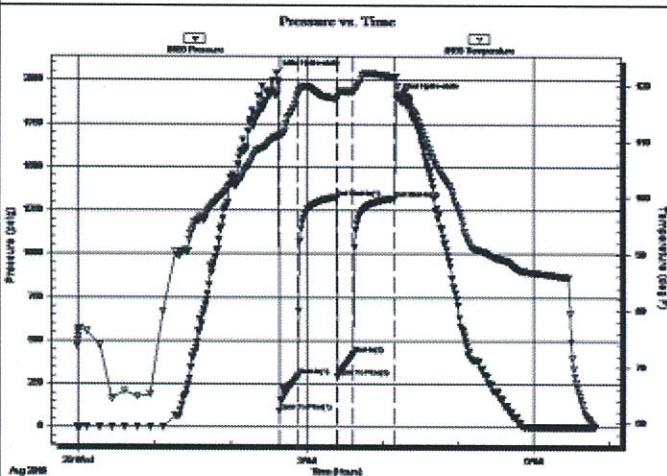
Unit No: 79



Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8166 Outside**  
 Press@RunDepth: 422.60 psig @ 4028.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.08.28 End Date: 2018.08.29 Last Calib.: 2018.08.29  
 Start Time: 23:59:33 End Time: 06:48:57 Time On Btrm: 2018.08.29 @ 02:35:58  
 Time Off Btrm: 2018.08.29 @ 04:11:28

**TEST COMMENT:** IF: BOB in 3 min. 43"  
 IS: No return.  
 FF: BOB in 4 min. 35"  
 FS: No return.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2039.97	110.90	Initial Hydro-static
3	89.86	110.82	Open To Flow (1)
17	295.65	118.47	Shut-In(1)
47	1326.14	117.69	End Shut-In(1)
48	292.02	118.00	Open To Flow (2)
61	422.60	118.87	Shut-In(2)
94	1320.00	121.41	End Shut-In(2)
96	1906.65	119.66	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
189.00	mcw 80%w 20%m	1.60
189.00	ocmw 2%o 58%w 40%m	2.65
189.00	ocwm 2%o 48%w 50%m	2.65
272.00	mud 100%m	3.82

**Gas Rates**

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

Ref. No: 63914

Printed: 2018.08.29 @ 07:47:53



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Palorino Petroleum Inc

24-19s-25w Ness KS

4924 SE 84th St  
 Newton, Ks 67114

Bondurant Unit #1

ATTN: Andrew Stenzel

Job Ticket: 63915

DST#: 2

Test Start: 2018.08.29 @ 21:33:08

**GENERAL INFORMATION:**

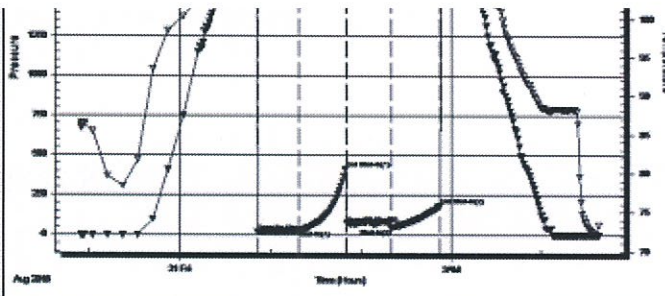
Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:28:08  
 Time Test Ended: 03:14:38  
 Interval: 4126.00 ft (KB) To 4247.00 ft (KB) (TVD)  
 Total Depth: 4247.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2383.00 ft (KB)  
 2378.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8166 Outside**  
 Press@RunDepth: 32.33 psig @ 4127.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.08.29 End Date: 2018.08.30 Last Calib.: 2018.08.30  
 Start Time: 21:33:13 End Time: 03:14:37 Time On Btrm: 2018.08.29 @ 23:26:08  
 Time Off Btrm: 2018.08.30 @ 01:35:38









00	219.09	110.86	Initial Hydro-static
60	72.51	114.37	Open To Flow (2)
90	43.69	115.78	Shut-In(2)
122	186.50	116.62	End Shut-In(2)
125	2093.92	117.59	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 1%o 89%m	0.30

**Gas Rates**

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

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 63916

Printed: 2018.08.31 @ 07:15:54



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Palomino Petroleum Inc  
 4924 SE 84th St  
 Newton, Ks 67114  
 ATTN: Andrew Stenzel

**24-19s-25w Ness KS**  
**Bondurant Unit #1**  
 Job Ticket: 63917      DST#: 4  
 Test Start: 2018.08.31 @ 20:06:38

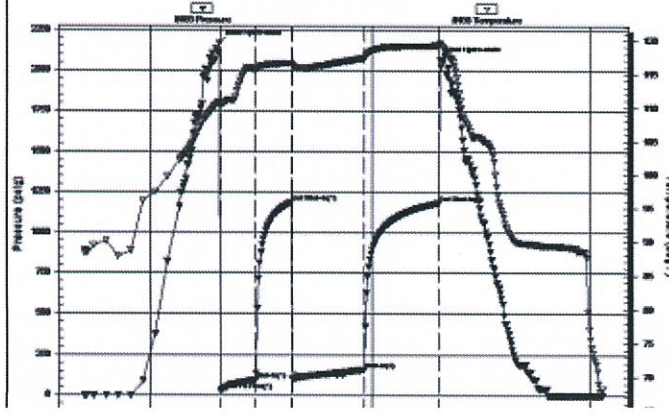
**GENERAL INFORMATION:**

Formation: **Miss**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 21:56:38  
 Time Test Ended: 03:09:38  
 Interval: **4346.00 ft (KB) To 4451.00 ft (KB) (TVD)**  
 Total Depth: **4451.00 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: **2383.00 ft (KB)**  
    **2378.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

**Serial #: 8166      Outside**  
 Press@RunDepth: **159.06 psig @ 4347.00 ft (KB)**  
 Start Date: **2018.08.31**      End Date: **2018.09.01**  
 Start Time: **20:06:43**      End Time: **03:09:37**  
 Capacity: **8000.00 psig**  
 Last Callb.: **2018.09.01**  
 Time On Btrr: **2018.08.31 @ 21:55:38**  
 Time Off Btrr: **2018.09.01 @ 00:55:38**

**TEST COMMENT:** IF: BOB in 24 min. 11 3/4  
 IS: Surface blow built to 1/4.  
 FF: BOB in 26 min. 23 3/4  
 FS: Surface blow built to 3/4 died to 1/2.

Pressure vs. Time



**PRESSURE SUMMARY**


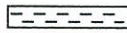


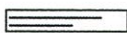
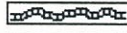




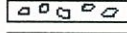
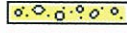

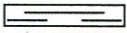

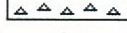


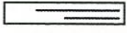

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.54	110.86	Initial Hydro-static
1	28.46	110.11	Open To Flow (1)
30	95.10	115.67	Shut-In(1)
59	1188.39	116.66	End Shut-In(1)
60	102.44	116.26	Open To Flow (2)
118	159.06	117.41	Shut-In(2)
180	1182.50	119.27	End Shut-In(2)
180	2067.68	119.64	Final Hydro-static

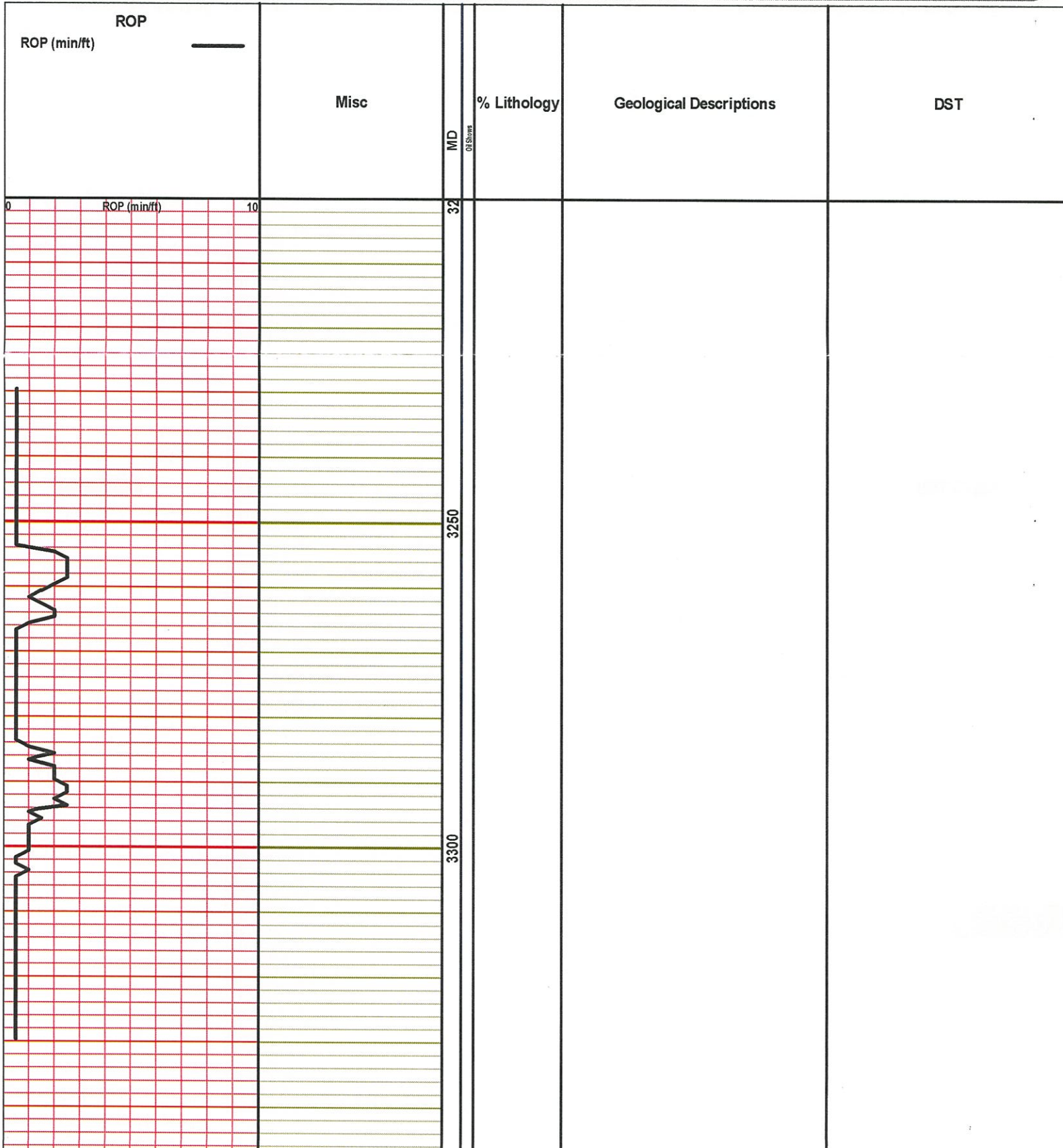




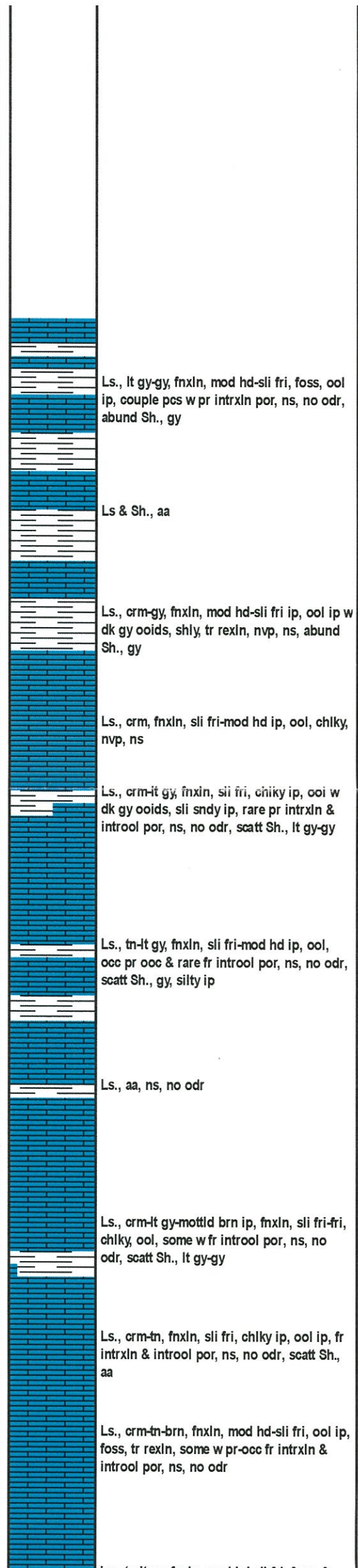
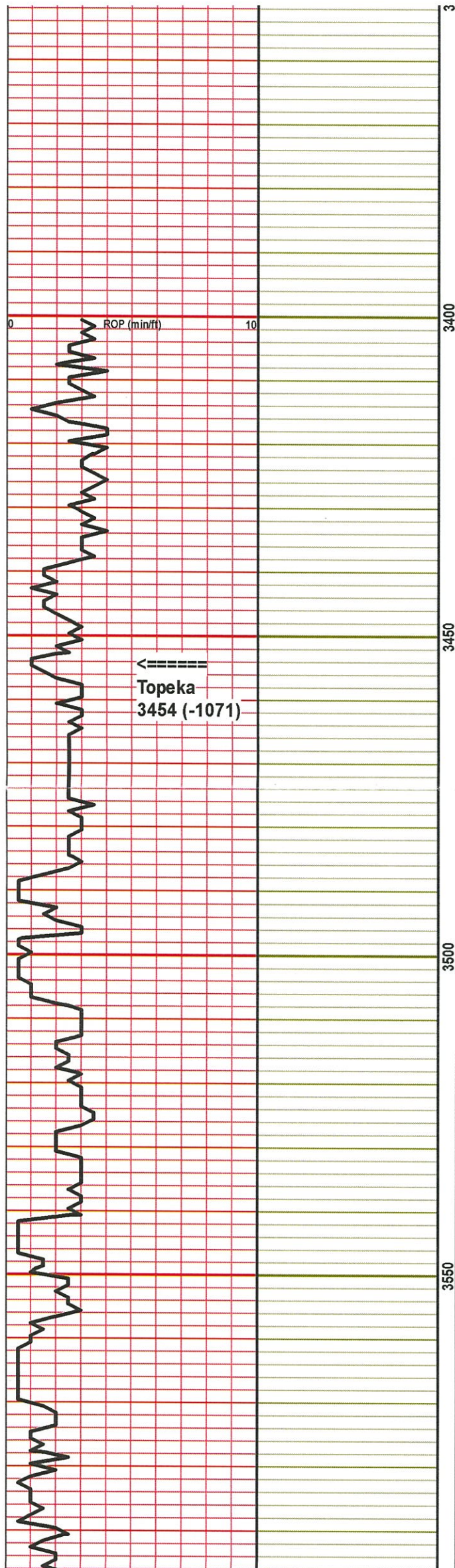


**ROCK TYPES**

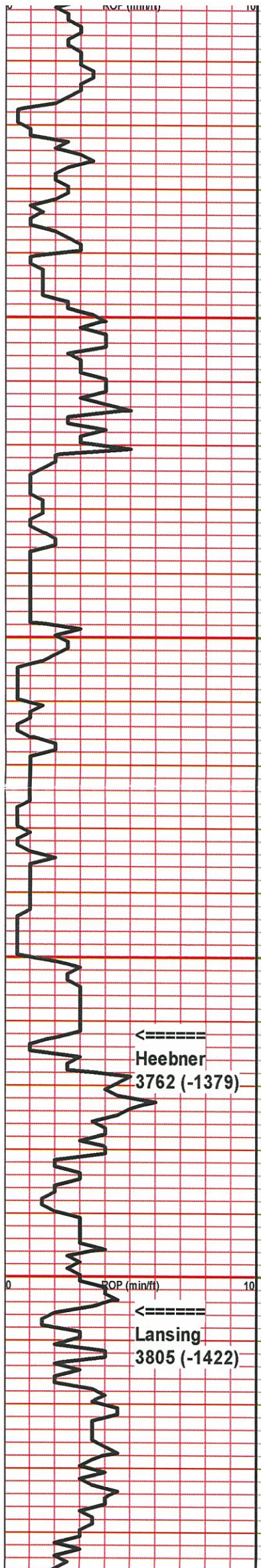
- |   |  |  |  |   |
|---|--|--|--|---|
|  Anhy |  Clyst      |  Gyp  |  Mrlst |  Shgy  |
|  Bent |  Carb shale |  Igne |  Salt  |  Sltst |
|  Brec |  Congl      |  Lmst |  Shale |  Ss    |
|  Cht  |  Dol        |  Meta |  Shcol |  Till  |



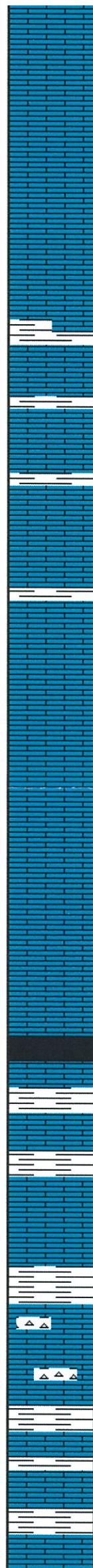






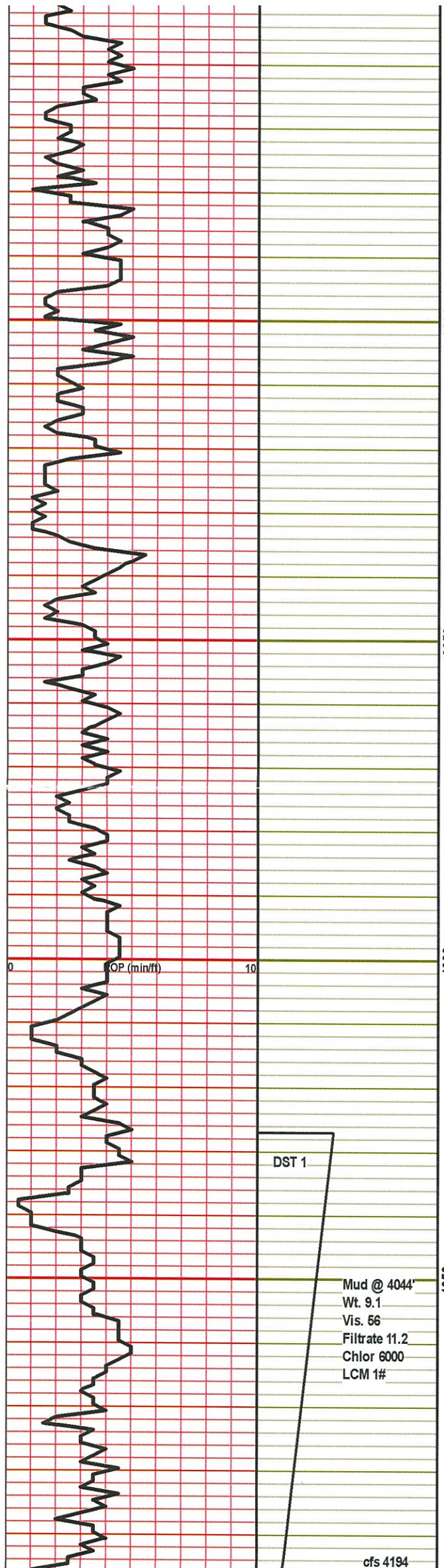


3  
3650  
3700  
3750  
3800



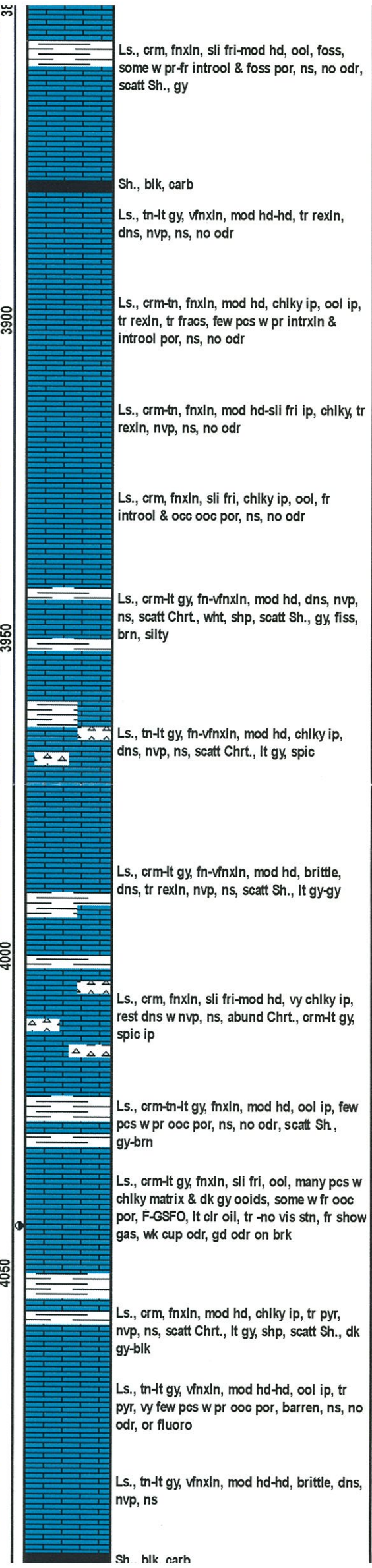
Sh., dk gy  
 Ls., crm-tn-lt gy, fnxln, sli fri, chlky, ool ip, foss ip, few w pr-fr intrxn por, ns, no odr  
 Ls., crm-lt gy, fnxln, sli fri-mod hd, chlky, foss, ool ip, most w nvp, rare pr introol por, ns, no odr, scatt Sh., gy  
 Ls., crm-tn, fnxln, sli fri-fri, vy chlky, foss, few pcs w pr foss & intrxn por, ns, no odr, scatt Sh., aa  
 Ls., crm-tn-brn, fnxln, mod hd-sli fri, vy chlky, foss/ool ip, fr introol & intrxn por ip, rare fr vug por, ns, no odr  
 Ls., tn-mottld brn, fnxln, sli fri-soft, chlky, ool ip, pr-rare fr introol & intrxn por, ns, no odr  
 Sh., blk, carb  
 Ls., crm-tn, fnxln, mod hd, chlky ip, pr intrxn por ip, ns, no odr, abund Sh., lt gy-lt grn, soft, silty ip  
 Sh., gy, fiss  
 Ls., crm-tn, fnxln, mod hd, chlky ip, nvp, ns, scatt Chrt., crm-tn, sli weath ip  
 Ls., crm-gy, fn-vfnxln, mod hd-hd, ool ip, tr rexln, nvp, ns, abund Sh., gy





Mud @ 4044'  
 Wt. 9.1  
 Vis. 56  
 Filtrate 11.2  
 Chlor 6000  
 LCM 1#

cfs 4194



**DST #1 4027-4130**  
**(LKC J, K, L)**  
 15-30-15-30  
 IF: BOB in 3 min, built to 43"  
 IS: No blow  
 FF: BOB in 4 min, built to 35"  
 FS: No blow

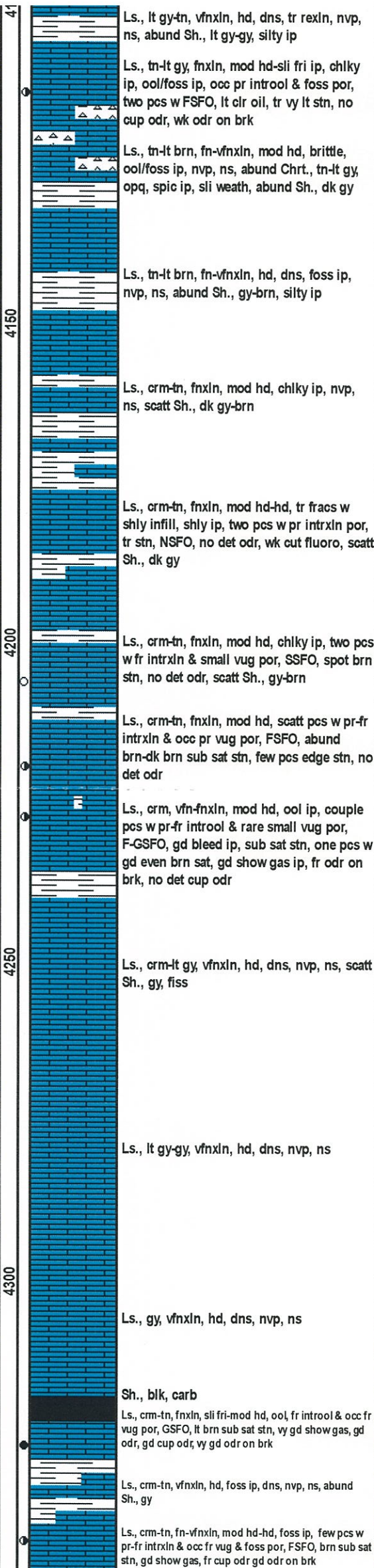
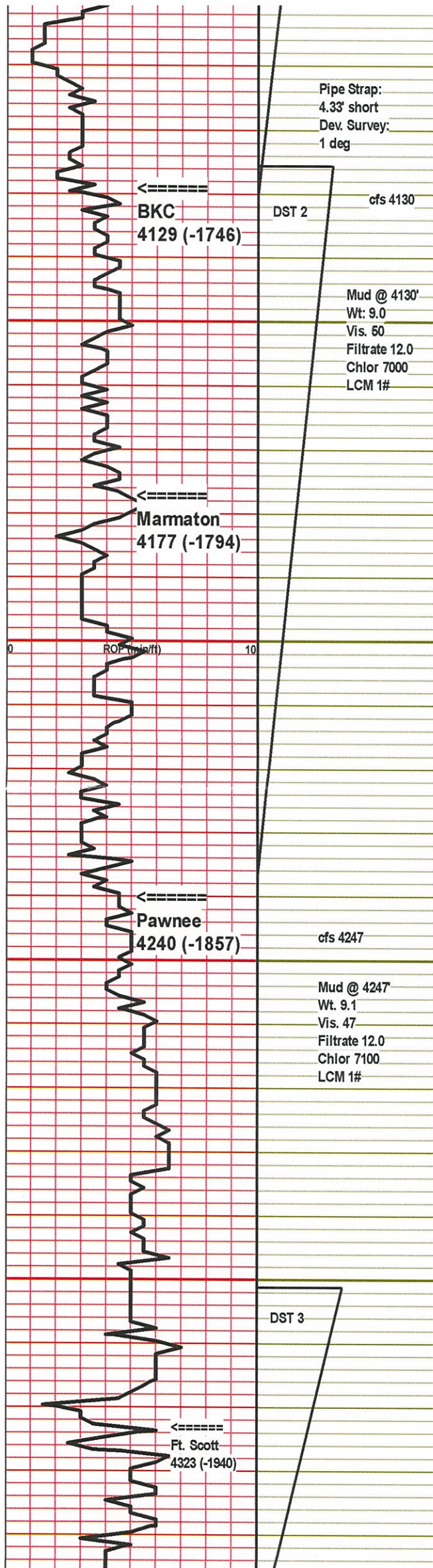
Recovery:  
 272' Mud (100%M)  
 189' OCWM (2%O, 48%W, 50%M)  
 189' OCMW (2%O, 59%W, 40%M)  
 189' MCW (80%W, 20%M)

839' TF

FP: 89-295; 292-422  
 SIP: 1326-1320  
 HP: 2039-1906

BHT: 121  
 Gravity: -  
 Chlor: 44000





**DST #2 4126-4247 (Marmaton)**

30-30-30-30  
 IF: 1", built to 1 1/2"  
 IS: No blow  
 FF: No blow  
 FS: No blow

Recovery:  
 10' Mud (100%M)

FP: 22-27; 28-32  
 SIP: 176-81  
 HP: 2100-2007

BHT: 113  
 Gravity: -  
 Chlor: -

**DST #3 4301-4356 (Ft. Scott)**

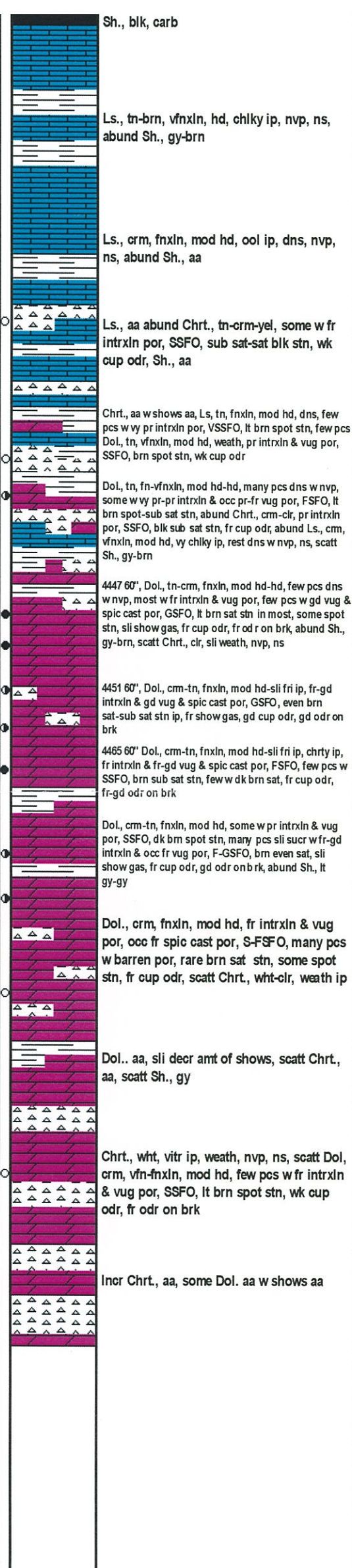
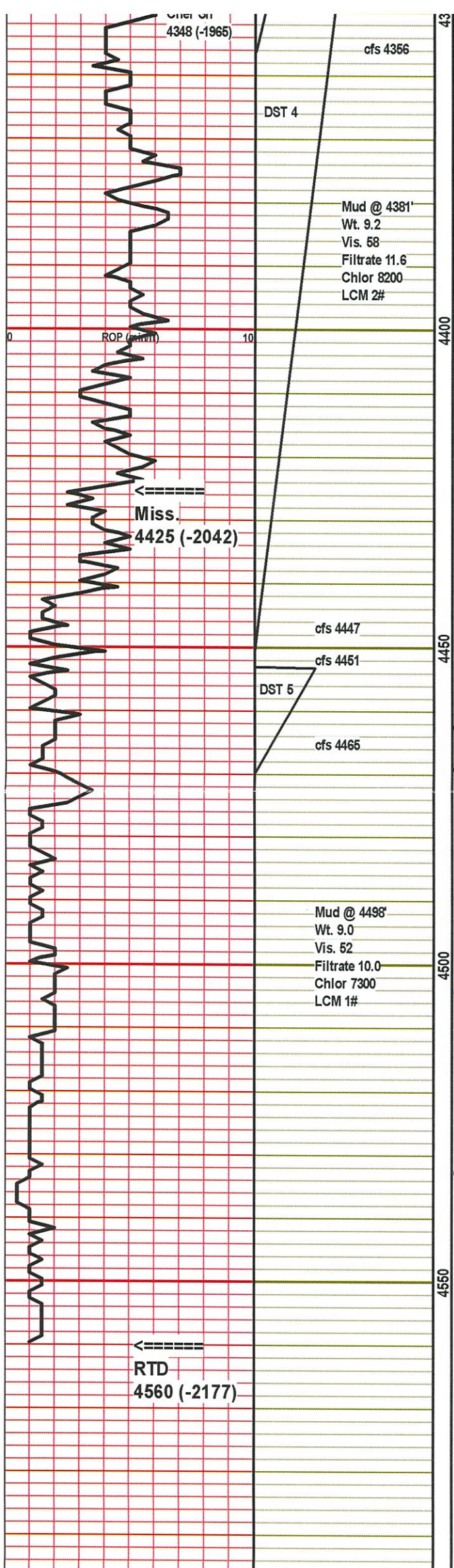
30-30-30-30  
 IF: 1/2" blow, built to 2 1/2"  
 IS: No blow  
 FF: SB, built ot 1"  
 FS: No blow

Recovery:  
 60' GOCM (10%G, 1%O, 89%M)

FP: 17-29; 72-43  
 SIP: 414-186  
 HP: 2168-2093

BHT: 117  
 Gravity: -





**DST #4 4346-4451 (Mississippi)**  
30-30-60-60  
IF: BOB in 24 min, built to 11 3/4"  
IS: SB, built to 1/4"  
FF: BOB in 26 min, built to 23 3/4"  
FS: SB, built to 3/4", died to 1/2"

Recovery:  
189' GIP  
126' GO (10%G, 90%O)  
126' MCGO (20%G, 40%O, 40%M)  
126' GOCM (20%G, 30%O, 50%M)

378' TF

FP: 28-95; 102-159  
SIP: 1188-1182  
HP: 2169-2067

BHT: 119  
Gravity: 38  
Chlor: —

**DST #5 4453-4469 (Mississippi)**  
30-30-30-30  
IF: BOB in 15 min, built to 16 1/2"  
IS: No blow  
FF: BOB in 19 min, built to 14"  
FS: No blow

Recovery:  
94' MCW (40%M, 60%W)  
378' MCW (5%M, 95%W)

472' TF

FP: 27-137; 143-216  
SIP: 1217-1198  
HP: 2282-2207

BHT: 130  
Gravity: —  
Chlor: 17000



