

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 _____

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	REVILO 3
Doc ID	1463550

All Electric Logs Run

Micro Resistivity
Dual Induction
Dual Receiver Cement Bond
Litho Density Neutron

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	REVILO 3
Doc ID	1463550

Tops

Name	Top	Datum
Anhy.	1796	(+ 548)
Base Anhy.	1820	(+524)
Heebner	3613	(-1269)
Lansing	3653	(-1309)
Stark Sh.	3884	(-1540)
BKC	3936	(-4076)
Pawnee	4076	(-1732)
Ft. Scott	4169	(-1799)
Cherokee Sh.	4169	(-1825)
Miss.	4241	(-1897)
LTD	4371	(-2027)



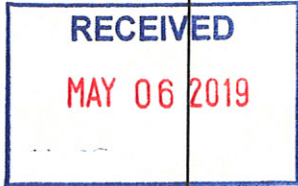
P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300



Invoice

DATE	INVOICE #
5/2/2019	32039

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	#3	Revilo	Trego	Express Well	Oil	Development	Port Collar	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				35	Miles	5.00	175.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,400.00	1,400.00
330	Swift Multi-Density Standard (MIDCON II)				165	Sacks	17.00	2,805.00T
276	Flocele				50	Lb(s)	3.00	150.00T
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	1.85	370.00
583D	Drayage				348.28	Ton Miles	0.95	330.87
	Subtotal							5,589.87
	Sales Tax Trego County						8.00%	265.12

We Appreciate Your Business!	Total	\$5,854.99
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CHARGE TO:

Palomina Petroleum

TICKET 032039

ADDRESS

CITY, STATE, ZIP CODE

PAGE 1 OF 1

CITY, STATE, ZIP CODE

WELL/PROJECT NO.

3
Ness City, KS

LEASE

Ravib

COUNTY/PARISH

trap

STATE

KS

CITY

Utica

DATE

5/21/2019

OWNER

Utica Vet Clinic, 8-N

TICKET TYPE

SERVICE

CONTRACTOR

Express

RIG NAME/NO.

ct Location

SHIPPED VIA

ct

DELIVERED TO

ct Location

ORDER NO.

WELL TYPE

Oil

WELL CATEGORY

Development

JOB PURPOSE

Port Collar

WELL PERMIT NO.

WELL LOCATION

Utica Vet Clinic, 8-N

INVOICE INSTRUCTIONS

E + N - into

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							

575					MILEAGE	Trk #112				5.00	175.00
576D					Pump Charge - Port Collar		1	job		1400.00	1400.00

330					SMD	Cement				166	sts	17.00	2806.00
376					Floccul					50	lbs	3.00	150.00
390					D-Air					2	gal	42.00	84.00

105					Port Collar	Tool Rental				1	job	275.00	275.00
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581					CMT	Service Charge				200	sts	1.85	370.00	
583					Drayage					19900	lbs	348.21/TM	0.96	330.87

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.

REMIT PAYMENT TO:

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

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
DATE SIGNED: 5/21/2019
TIME SIGNED: 2:45
A.M. P.M.

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDISAGREE	DISAGREE
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	
CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL: 1
TOTAL: 5834.99

SWIFT OPERATOR

Palomina Trucks

APPROVAL

Thank You!

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

JOB LOG

SWIFT Services, Inc.

DATE	5/2/19	PAGE NO.	1
TICKET NO.	032039		

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Palomino Petroleum		3		Revilo		Part Collar		032039	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1300								On Location 2 7/8" 5 1/2"
									PC: 1792
	1315	∅	∅		✓		1100		Pressure Test BS ★ Hold ★
	1320								Open P.C.
	1325	3	4		✓		300		Injection Rate
		4	91		✓		300		Mix 165 sks of SMD Cement 1/4" Flt @ 11.2 ppg - Circulate CMT to Pit
	1350	3 1/2	9		✓		300		Displace CMT
	1400								Close PC
	1405	∅	∅		✓		1100		Pressure Test BS ★ Hold ★
									Run 4 Joints
	1415	3	25		✓		300		Reverse Clean
	1425								Wash up Trk #112
									★ 165 sks of SMD 1/4" Flt used ★ ★ - 15 sks to the Pit ★
	1445								Job Complete
									Thank You
									Cudeon, Preston, Isaac

SWIFT



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



Invoice

DATE	INVOICE #
4/25/2019	32195

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	#3	Revilo	Trego	WW Drilling	Oil	Development	Cement Long Str...	Blaine
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
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				10	Each	85.00	850.00T
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				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
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				1	Gallon(s)	42.00	42.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				458.27	Ton Miles	0.85	389.53
	Subtotal							11,531.53
	Sales Tax Trego County						8.00%	739.86

We Appreciate Your Business!	Total	\$12,271.39
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CHARGE TO: Palomino Petroleum
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 032195

PAGE 1 OF 2

1. SERVICE LOCATIONS: Wm City KS WELL/PROJECT NO. 3 LEASE Reville COUNTY/PARISH Teaga STATE KS CITY Utica DATE 25 APR 19 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR RIG NAME/NO. SHIPPED VIA CT DELIVERED TO location ORDER NO.
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE Conest long string WELL PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
515					TRK W6	40	mi				5.00	200.00
578					Pump Charge	1	ea				1300.00	1300.00
403					Conest Basket	1	ea				275.00	275.00
404					Conest Colbar	1	ea				2500.00	2500.00
406					1/4th down play 3/8" pipe	1	ea				250.00	250.00
407					INSERT FLOAT shoe w/ Auto Fill	1	ea				325.00	325.00
409					TRSD WPER	10	ea				85.00	850.00
419					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.

DATE SIGNED [Signature] TIME SIGNED [Signature]

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
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 5900.00
 TOTAL 12291.89

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

SWIFT OPERATOR

APPROVAL

[Signature]

Thank You!



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

TICKET CONTINUATION

TICKET No. 32195 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				DATE	UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M				
336		1				SMD cement	125	SK			16.25	2031.25		
325		1				Standard cement (FOC ER-2)	100	SK			13.00	1300.00		
284		1				Calsenal	500	lb	5	SK	35.00	175.00		
283		1				SALT	500	lb			0.20	100.00		
285		1				CFR-1	50	lb			4.50	225.00		
276		1				Fluorobor	50	lb			2.50	125.00		
281	281	1				mud flush	500	gal			1.50	750.00		
290	281	1				KCL Liquid	4	gal			25.00	100.00		
290	290	1				D-Air	1	gal			42.00	42.00		
581		1				SERVICE CHARGE						393.75		
583		1				MILEAGE CHARGE						389.53		
TOTAL							225					0.85		
MILEAGE CHARGE							225						393.75	
TOTAL MILEAGE							40						389.53	
TOTAL MILES							458.28						389.53	
CUBIC FEET														
TON MILES														
CONTINUATION TOTAL												5631.88		

JOB LOG

SWIFT Services, Inc.

DATE 25 APR 19 PAGE NO. 1

CUSTOMER Palawino Petroleum WELL NO. #3 LEASE Rev: 10 JOB TYPE cement long string TICKET NO. 32195

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								125 sk SMD cement w/ 1/4" Floccide 100 sk SA-2 cement w/ 1/4" Floccide 5 1/2" x 1 1/4" casing 106 joint 4370' TD = 4370' shoe jt 31.7' Port collar #62 @ 1792' Centralizer 1, 3, 5, 7, 9, 11, 13, 15, 17, 6L Basket #62
	1100							on loc TRK 115
	1245							start 5 1/2" x 1 1/4" casing in well
	1445							Drop ball - circulate - ROTATE
	1600	5	12			200		Pump 500 gal mud flush
		5	20			200		Pump 20 bbl KCL flush
			7					Plug RA 30sk
	1615	4 1/4	46			200		mix SMD cement 95sk @ 12.5 ppg
		4 1/4	24			200		mix SA-2 cement 100sk @ 15.3 ppg
								Drop latch down plug wash out pump & line
	1643	6 1/4				200		Displace plug
		5 9/8	98			800		
	1700	5	106			1500		Land Plug
								Release pressure to truck - dried up
	1705							wash truck
	1735							Rack up job complete Thats Blaine, Phil & Squatch

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

RECEIVED
APR 24 2019

Invoice

Date	Invoice #
4/22/2019	0013414

<p>Bill To</p> <p>PALOMINO PETROLEUM INC 4924 SE 84TH ST NEWTON,KS 67114</p>

P.O. No.	Terms	Project
REVILO# 1 ³	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	500.00	500.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	850.00	850.00
25	HEAVY EQUIPMENT. ONE WAY	6.50	162.50
25	LMV- ONE WAY	2.75	68.75
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		0.00
	NESS CO SALES TAX	7.50%	0.00

Thank you for your business.

Total \$4,846.45

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

GLOBAL OIL FIELD SERVICES, LLC

001341A

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>4-18-19</u>	SEC <u>7</u>	TWP. <u>15</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>11:01 PM</u>
LEASE <u>Revilo</u>	WELL #. <u>5</u>	LOCATION <u>Edge of Union KS & N Fine</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR W W Drilling Rig # 2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH 209'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 25'

PERFS

DISPLACEMENT

OWNER Palomino Petroleum

CEMENT AMOUNT ORDERED 150 sks of com 3% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

EQUIPMENT

PUMP TRUCK # 417 CEMENTER God HELPER Jason

BULK TRUCK # 411 DRIVER Tom

BULK TRUCK # DRIVER

REMARKS:

Ran 5 hrs of 8 5/8 casing + lit hooked to rig + broke circulation + hooked to truck + pumped 150 sks of cement + displaced 1/2 blk of #20 + shut in

Cement DID circulate to surface

CHARGE TO: Palomino Petroleum

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

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

PRINTED NAME

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Revalo #3

7-15s-25w Trego,KS

Start Date: 2019.04.22 @ 21:29:11

End Date: 2019.04.23 @ 03:24:11

Job Ticket #: 65172 DST #: 1

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

Printed: 2019.04.25 @ 11:59:36

Palomino Petroleum
7-15s-25w Trego,KS
Revalo #3
DST # 1
Lower LKC
2019.04.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65172

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

GENERAL INFORMATION:

Formation: **Lower LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:41

Time Test Ended: 03:24:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **3802.00 ft (KB) To 3954.00 ft (KB) (TVD)**

Reference Elevations: 2344.00 ft (KB)

Total Depth: 3954.00 ft (KB) (TVD)

2339.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 63.50 psig @ 3803.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.22

End Date:

2019.04.23

Last Calib.: 2019.04.23

Start Time: 21:29:16

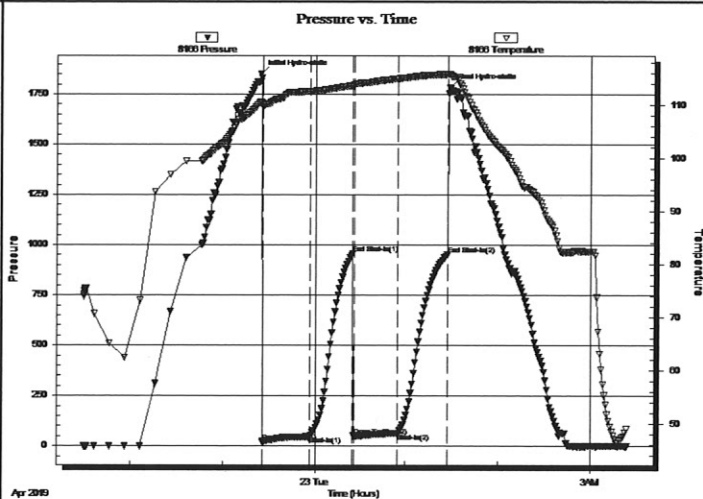
End Time:

03:24:10

Time On Btm: 2019.04.22 @ 23:24:41

Time Off Btm: 2019.04.23 @ 01:28:41

TEST COMMENT: IF: 1" blow built to 7".
IS: No return.
FF: 1/2" blow built to 9".
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.69	110.45	Initial Hydro-static
1	21.44	109.56	Open To Flow (1)
32	47.33	112.55	Shut-In(1)
60	955.50	113.63	End Shut-In(1)
61	46.98	113.76	Open To Flow (2)
90	63.50	114.94	Shut-In(2)
123	952.63	115.77	End Shut-In(2)
124	1784.48	115.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocw m 10%g 40%o 10%w 40%m	0.30
60.00	ocm 10%o 90%m	0.30
1.00	free oil 100%o	0.01
0.00	126 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65172 **DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

GENERAL INFORMATION:

Formation: **Lower LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:41

Time Test Ended: 03:24:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **3802.00 ft (KB) To 3954.00 ft (KB) (TVD)**

Reference Elevations: 2344.00 ft (KB)

Total Depth: 3954.00 ft (KB) (TVD)

2339.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: psig @ 3803.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.22 End Date: 2019.04.23

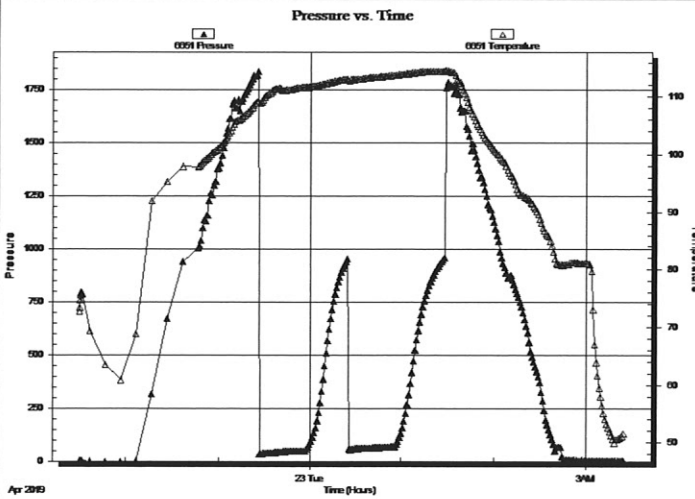
Last Calib.: 2019.04.23

Start Time: 21:29:58 End Time: 03:24:52

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow built to 7".
IS: No return.
FF: 1/2" blow built to 9".
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocw m 10%g 40%o 10%w 40%m	0.30
60.00	ocm 10%o 90%m	0.30
1.00	free oil 100%o	0.01
0.00	126 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65172

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

Tool Information

Drill Pipe:	Length: 3670.00 ft	Diameter: 3.80 inches	Volume: 51.48 bbl	Tool Weight: 1500.00 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 52.07 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3802.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	152.00 ft			
Tool Length:	179.00 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			3776.00	
Shut In Tool	5.00			3781.00	
Hydraulic tool	5.00			3786.00	
Jars	5.00			3791.00	
Safety Joint	2.00			3793.00	
Packer	5.00			3798.00	27.00 Bottom Of Top Packer
Packer	4.00			3802.00	
Stubb	1.00			3803.00	
Recorder	0.00	6651	Inside	3803.00	
Recorder	0.00	8166	Outside	3803.00	
Perforations	18.00			3821.00	
Change Over Sub	1.00			3822.00	
Drill Pipe	126.00			3948.00	
Change Over Sub	1.00			3949.00	
Bullnose	5.00			3954.00	152.00 Bottom Packers & Anchor
Total Tool Length:	179.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65172

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gocw m 10%g 40%o 10%w 40%m	0.295
60.00	ocm 10%o 90%m	0.304
1.00	free oil 100%o	0.014
0.00	126 GIP	0.000

Total Length: 121.00 ft

Total Volume: 0.613 bbl

Num Fluid Samples: 0

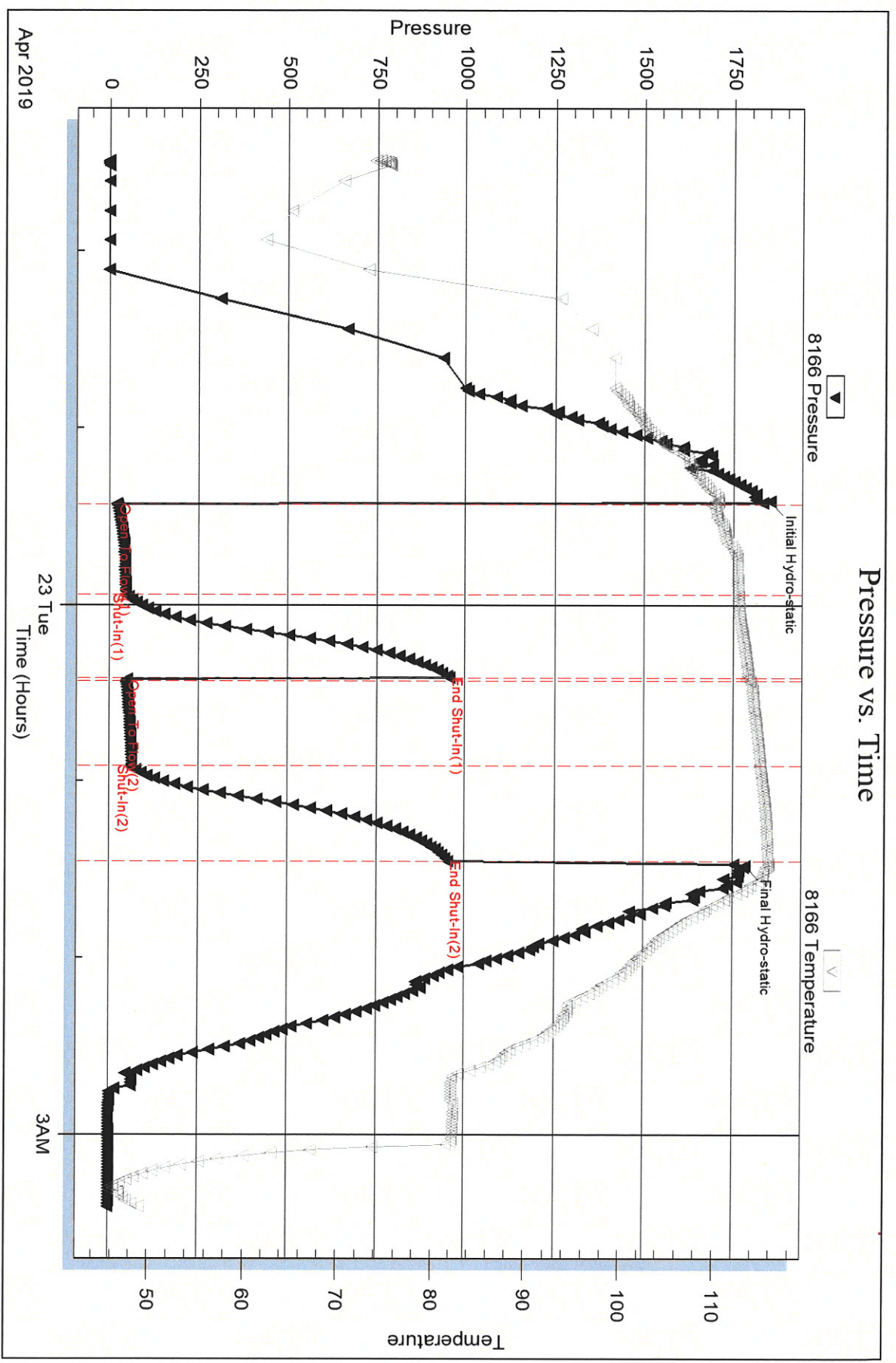
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



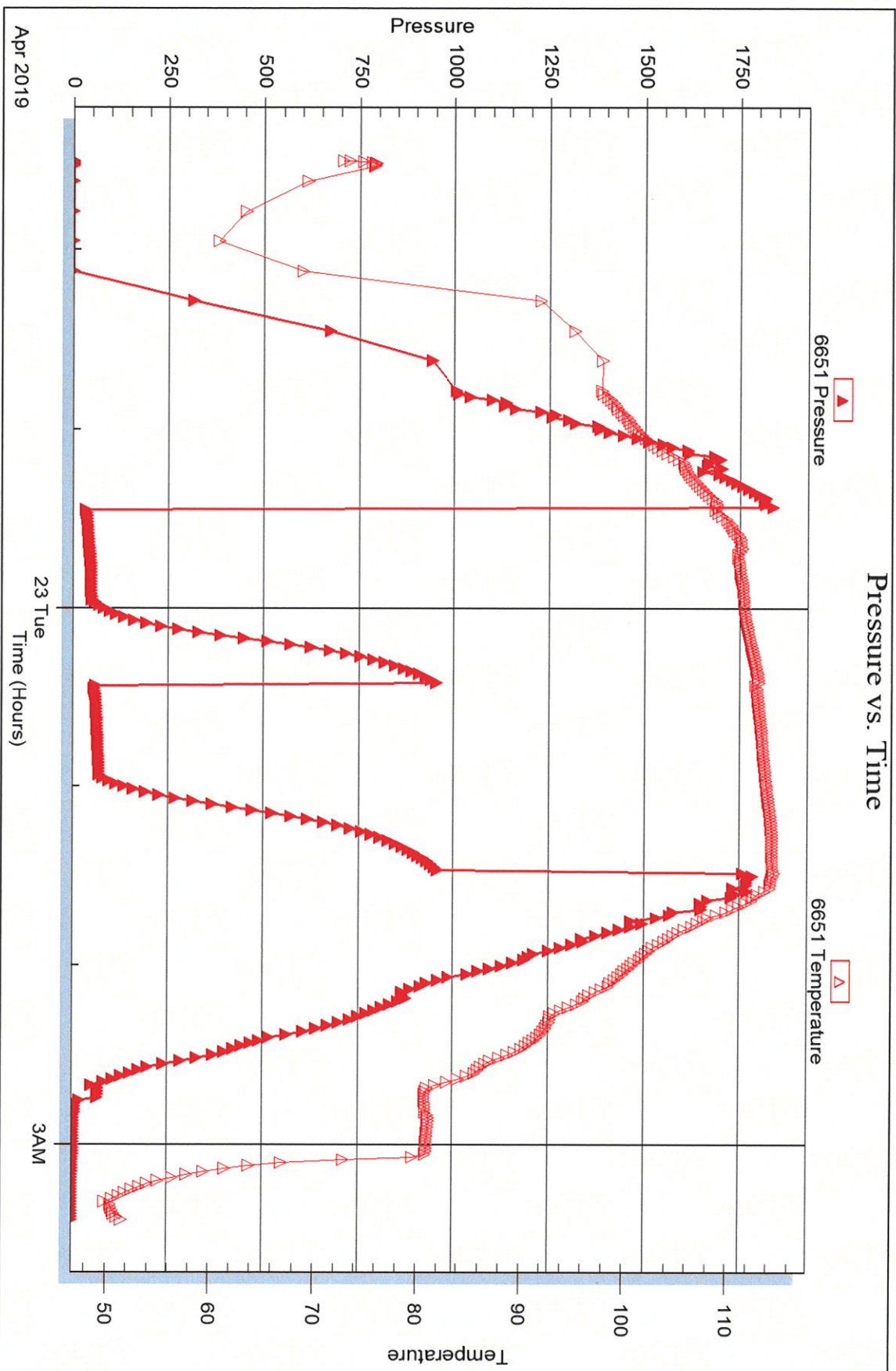
Serial #: 6651

Inside

Palomino Petroleum

Revilo #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65172

Printed: 2019.04.25 @ 11:59:37



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Revalo #3

7-15s-25w Trego,KS

Start Date: 2019.04.24 @ 07:20:02

End Date: 2019.04.24 @ 13:59:32

Job Ticket #: 65173 DST #: 2

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

Printed: 2019.04.25 @ 11:59:10

Palomino Petroleum 7-15s-25w Trego,KS Revalo #3 DST # 2 MISS 2019.04.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

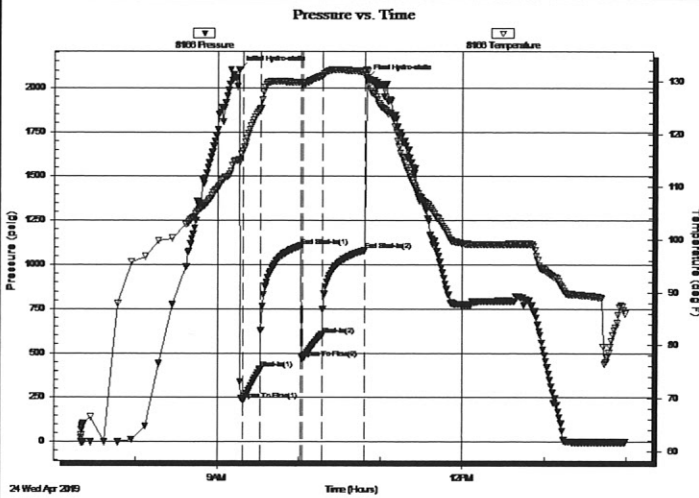
7-15s-25w Trego, KS
Revilo #3
 Job Ticket: 65173 **DST#: 2**
 Test Start: 2019.04.24 @ 07:20:02

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:19:02
 Time Test Ended: 13:59:32
 Interval: **4242.00 ft (KB) To 4283.00 ft (KB) (TVD)**
 Total Depth: 4283.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2344.00 ft (KB)
 2339.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 604.25 psig @ 4243.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.24 End Date: 2019.04.24 Last Calib.: 2019.04.24
 Start Time: 07:20:07 End Time: 13:59:31 Time On Btm: 2019.04.24 @ 09:16:32
 Time Off Btm: 2019.04.24 @ 10:49:02

TEST COMMENT: IF: BOB in 30 sec. 156"
 IS: BOB in 7 min. 30"
 FF: BOB in 1 min. 80"
 FS: BOB in 10 min. 13"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.71	115.19	Initial Hydro-static
3	237.37	116.85	Open To Flow (1)
15	408.18	124.73	Shut-In(1)
45	1106.00	129.82	End Shut-In(1)
46	468.87	129.57	Open To Flow (2)
60	604.25	131.08	Shut-In(2)
92	1080.97	131.87	End Shut-In(2)
93	2051.66	132.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
119.00	gocm 40%g 10%o 50%m	0.59
1539.00	go 10%g 90%o	21.59
0.00	1240 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

7-15s-25w Trego, KS
Revilo #3
 Job Ticket: 65173 **DST#: 2**
 Test Start: 2019.04.24 @ 07:20:02

GENERAL INFORMATION:

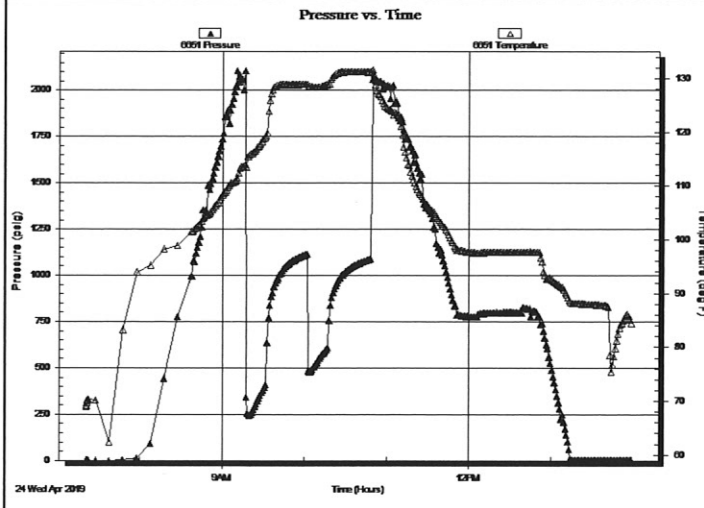
Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:19:02
 Time Test Ended: 13:59:32
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Interval: **4242.00 ft (KB) To 4283.00 ft (KB) (TVD)**
 Reference Elevations: 2344.00 ft (KB)
 Total Depth: 4283.00 ft (KB) (TVD)
 2339.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6651

Inside

Press@RunDepth: psig @ 4243.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.24 End Date: 2019.04.24 Last Calib.: 2019.04.24
 Start Time: 07:20:30 End Time: 13:59:54 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 30 sec. 156"
 IS: BOB in 7 min. 30"
 FF: BOB in 1 min. 80"
 FS: BOB in 10 min. 13"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
119.00	gocm 40%g 10%o 50%m	0.59
1539.00	go 10%g 90%o	21.59
0.00	1240 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

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65173

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.04.24 @ 07:20:02

Tool Information

Drill Pipe:	Length: 4108.00 ft	Diameter: 3.80 inches	Volume: 57.62 bbl	Tool Weight: 1500.00 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4242.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	68.00 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			4216.00	
Shut In Tool	5.00			4221.00	
Hydraulic tool	5.00			4226.00	
Jars	5.00			4231.00	
Safety Joint	2.00			4233.00	
Packer	5.00			4238.00	27.00 Bottom Of Top Packer
Packer	4.00			4242.00	
Stubb	1.00			4243.00	
Recorder	0.00	6651	Inside	4243.00	
Recorder	0.00	8166	Outside	4243.00	
Perforations	2.00			4245.00	
Change Over Sub	1.00			4246.00	
Drill Pipe	31.00			4277.00	
Change Over Sub	1.00			4278.00	
Bullnose	5.00			4283.00	41.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65173

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.04.24 @ 07:20:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
119.00	gocm 40%g 10%o 50%m	0.585
1539.00	go 10%g 90%o	21.588
0.00	1240 GIP	0.000

Total Length: 1658.00 ft Total Volume: 22.173 bbl

Num Fluid Samples: 0

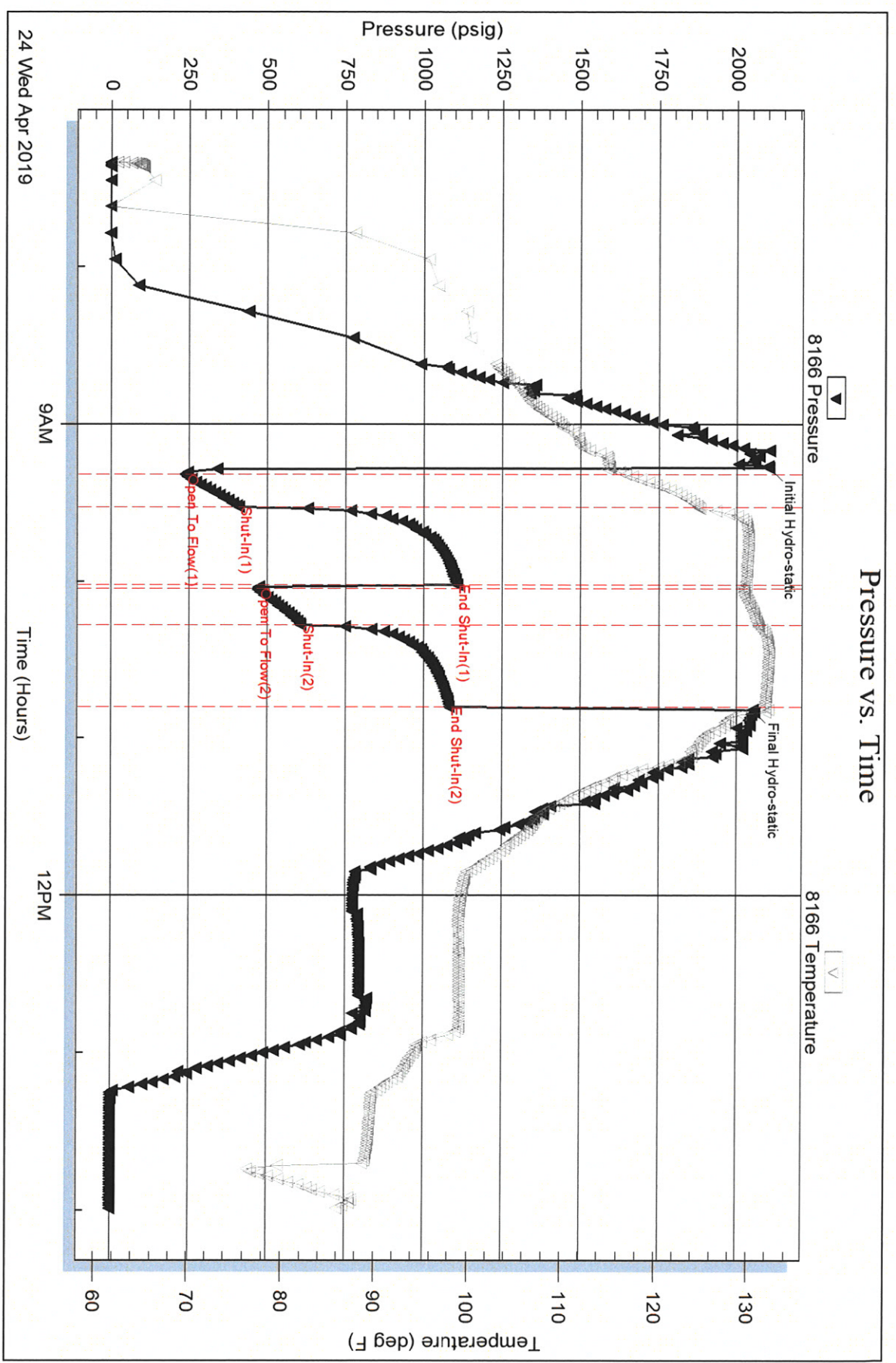
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 41@90=38



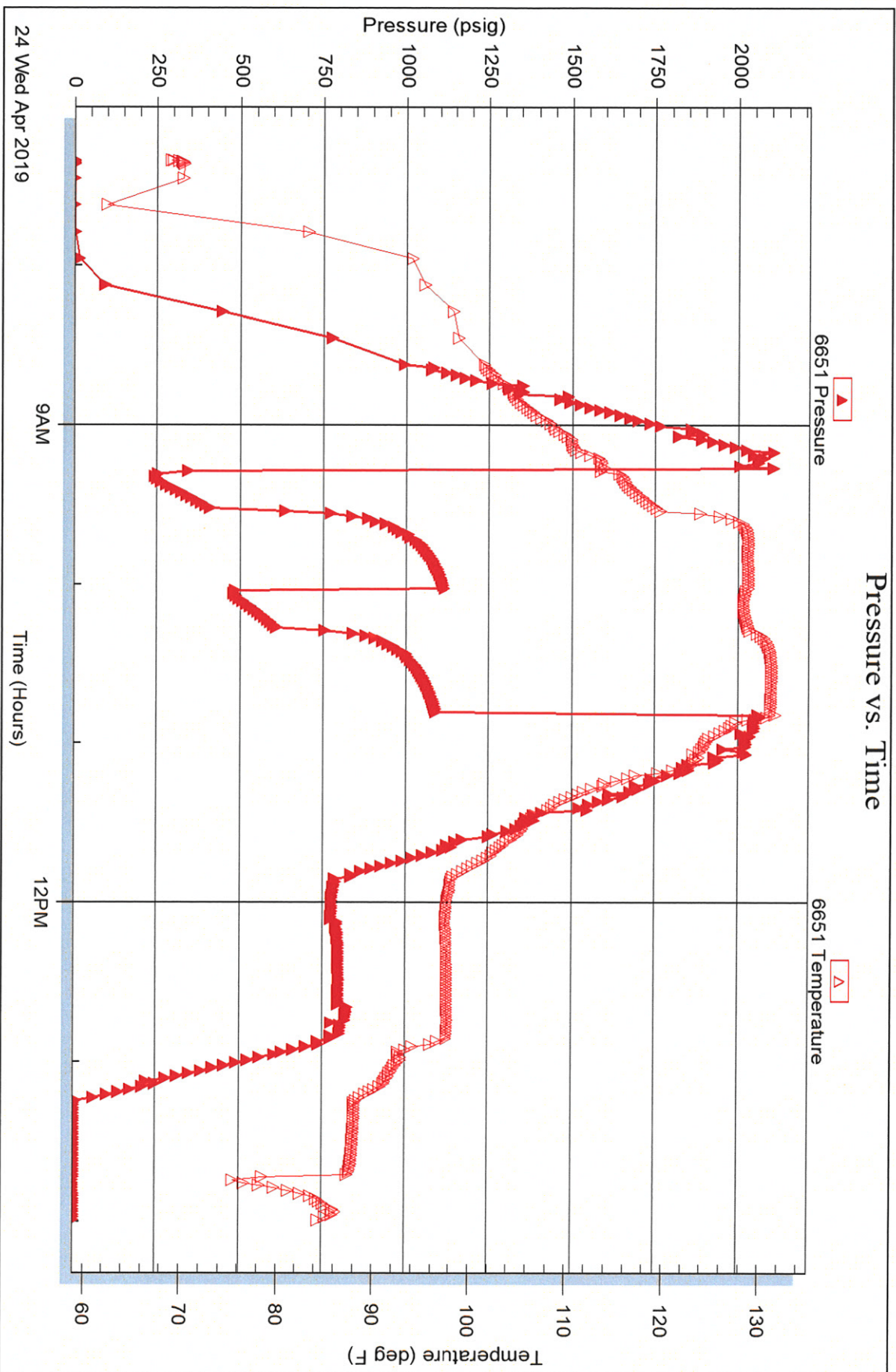
Serial #: 6651

Inside

Palomino Petroleum

Rev: #3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65173

Printed: 2019.04.25 @ 11:59:11



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65172

Well Name & No. Revalo #3 Test No. 1 Date 4-22-19
 Company Palomino Petroleum Elevation 2344 KB 2339 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW #2
 Location: Sec. 7 Twp 15S Rge. 25W Co. Trego State KS

Interval Tested 3802 3954 Zone Tested Lower LKC
 Anchor Length 152 Drill Pipe Run 3670 Mud Wt. 8.9
 Top Packer Depth 3797 Drill Collars Run 119 Vis 44
 Bottom Packer Depth 3802 Wt. Pipe Run — WL 7.2
 Total Depth 3954 Chlorides 3500 ppm System LCM 1
 Blow Description IF: 1" blow built to 7"
IS: No return.
FF: 1/2 blow built to 9"
FS: No return.

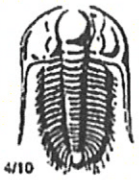
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>60</u>	<u>ocm</u>	<u>10</u>	<u>0</u>	<u>90</u>	<u>0</u>
<u>60</u>	<u>gocwm</u>	<u>10</u>	<u>40</u>	<u>10</u>	<u>40</u>
<u>—</u>	<u>126 GIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>121</u>	<u>BHT 115</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 121 BHT 115 Gravity — API RW — @ —°F Chlorides — ppm

(A) Initial Hydrostatic 1851 Test 1200 T-On Location 19:20
 (B) First Initial Flow 21 Jars 250 T-Started 21:29
 (C) First Final Flow 47 Safety Joint 75 T-Open 23:25
 (D) Initial Shut-In 955 Circ Sub NIL T-Pulled 1:25
 (E) Second Initial Flow 46 Hourly Standby T-Out 3:27
 (F) Second Final Flow 63 Mileage 124 124 Comments on the bank
 (G) Final Shut-In 952 Sampler 20:30
 (H) Final Hydrostatic 1784 Straddle

Initial Open 30 Shale Packer Ruined Shale Packer
 Initial Shut-In 30 Extra Packer Ruined Packer
 Final Flow 30 Extra Recorder Extra Copies
 Final Shut-In 30 Day Standby Sub Total 0
 Accessibility Total 1649
 Sub Total 1649 MP/DST-Disc't

Approved By [Signature] Our Representative [Signature]
 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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65173**

Well Name & No. ReVilo #3 Test No. 2 Date 4-24-19
 Company Palomin Petroleum Elevation 2344 KB 2379 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW#2
 Location: Sec. 7 Twp 15S Rge. 25W Co. Trego State KS

Interval Tested 4242 4283 Zone Tested M.55
 Anchor Length _____ Drill Pipe Run 4108 Mud Wt. 9.1
 Top Packer Depth _____ Drill Collars Run 119 Vis 41
 Bottom Packer Depth 4242 Wt. Pipe Run _____ WL 7.2
 Total Depth 4283 Chlorides 6500 ppm System LCM 1

Blow Description IF: BoB in 30 sec. 156"
IS: BoB in 7 min. 30"
FF: BoB in 1 min. 80"
FS: BoB in 10 min. 13"

Rec	Feet of	%gas	%oil	%water	%mud
<u>1539</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>119</u>	<u>90cm</u>	<u>40</u>	<u>10</u>	<u>50</u>	
<u>1240</u>	<u>GIP</u>				

Rec Total ~~1658~~ 131 BHT 131 Gravity 38 API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2101 Test 1300 T-On Location 6:55
 (B) First Initial Flow 237 Jars 250 T-Started 7:20
 (C) First Final Flow 408 Safety Joint 75 T-Open 9:17
 (D) Initial Shut-In 1106 Circ Sub 50.00 T-Pulled 10:47
 (E) Second Initial Flow 468 Hourly Standby _____ T-Out 14:01
 (F) Second Final Flow 604 Mileage 124-X2 124+124 Comments _____
 (G) Final Shut-In 1080 Sampler _____
 (H) Final Hydrostatic 2051 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30
 Sub Total 0
 Total 1923
 Sub Total 1923
 MP/DST Disc't _____

Approved By And Byst Our Representative [Signature]

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



Home
(785) 798-2400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-5977

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

Well Name: Revilo #3
API: 15-195-23086-00-00
Location: NE-NW-SW-SW Sec. 7-15S-25W (Trego County)
License Number: 30742
Spud Date: 4/18/19
Surface Coordinates: 1284' FSL & 418' FWL
Region: KANSAS
Drilling Completed: 4/25/19

Bottom Hole
Coordinates:
Ground Elevation (ft): 2339
Logged Interval (ft): 3500 To: TD
Formation: MISSISSIPPI
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2344
Total Depth (ft): 4370

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

OPERATOR

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

GEOLOGIST

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

Drilling Report

DAILY DRILLING REPORT:

4/18/19 MIRU, ran surface casing
4/19/19 Drilling @ 209'
4/20/19 Drilling @ 2180'
4/21/19 Drilling @ 3140'
4/22/19 Drilling @ 3805'
4/23/19 DST #1
4/24/19 DST #2, ran electric logs
4/25/19 Ran production casing

Services

RIG: WW Drilling, rig #2

MUD: MUDCO

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

Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing set at 209'

PRODUCTION Casing: Ran 105 jts new 5 1/2", 14# casng set at 4369'

Formation Tops

Sample Tops		LogTops	
Anhy.	1797 (+547)	Anhy.	1796 (+548)
Base Anhy.	1838 (+506)	Base Anhy.	1820 (+524)
Heebner	3612 (-1268)	Heebner	3613 (-1269)
Lansing	3651 (-1307)	Lansing	3653 (-1309)
Stark Sh	3884 (-1540)	Stark Sh	3884 (-1540)
BKC	3943 (-1599)	BKC	3936 (-1592)
Pawnee	4079 (-1735)	Pawnee	4076 (-1732)
Ft. Scott	4143 (-1799)	Ft. Scott	4143 (-1799)
Cher. Sh.	4169 (-1825)	Cher. Sh.	4169 (-1825)
Miss.	4238 (-1894)	Miss.	4241 (-1897)
RTD	4370 (-2026)	LTD	4371 (-2027)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

7-15s-25w Trego,KS

4924 SE 84th St
Newton, KS 67114

Reviso #3

Job Ticket: 65172

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

GENERAL INFORMATION:

Formation: **Lower LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:41

Time Test Ended: 03:24:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **3802.00 ft (KB) To 3954.00 ft (KB) (TVD)**

Reference Elevations: 2344.00 ft (KB)

Total Depth: 3954.00 ft (KB) (TVD)

2339.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 63.50 psig @ 3803.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.22

End Date:

2019.04.23

Last Calib.: 2019.04.23

Start Time: 21:29:16

End Time:

03:24:10

Time On Btm: 2019.04.22 @ 23:24:41

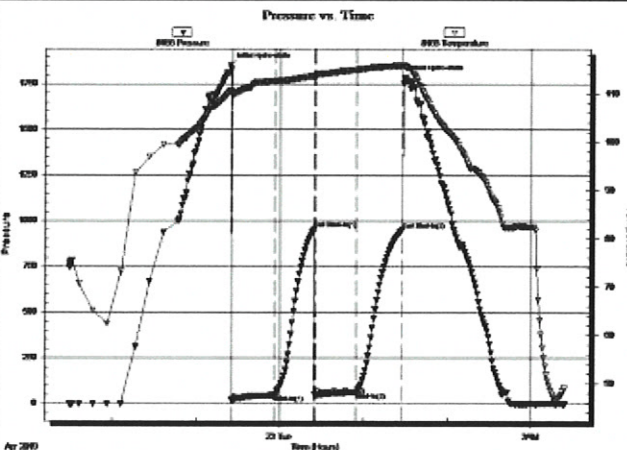
Time Off Btm: 2019.04.23 @ 01:28:41

TEST COMMENT: IF: 1" blow built to 7".

IS: No return.

FF: 1/2" blow built to 9".

FS: No return.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.69	110.45	Initial Hydro-static
1	21.44	109.56	Open To Flow (1)
32	47.33	112.55	Shut-in(1)
60	955.50	113.63	End Shut-in(1)
61	46.98	113.76	Open To Flow (2)
90	63.50	114.94	Shut-in(2)
123	952.63	115.77	End Shut-in(2)
124	1784.48	115.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocw m 10%g 40%o 10%w 40%m	0.30
60.00	ocm 10%o 90%m	0.30
1.00	free oil 100%o	0.01
0.00	126 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

7-15s-25w Trego,KS

Reviso #3

Job Ticket: 65173

DST#: 2

Test Start: 2019.04.24 @ 07:20:02

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:19:02
 Time Test Ended: 13:59:32
 Interval: **4242.00 ft (KB) To 4283.00 ft (KB) (TVD)**
 Total Depth: 4283.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

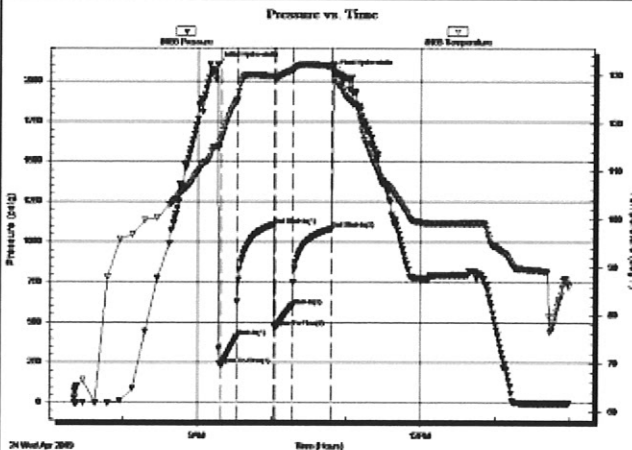
Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2344.00 ft (KB)
 2339.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 604.25 psig @ 4243.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.24 End Date: 2019.04.24 Last Callb.: 2019.04.24
 Start Time: 07:20:07 End Time: 13:59:31 Time On Btm: 2019.04.24 @ 09:16:32
 Time Off Btm: 2019.04.24 @ 10:49:02

TEST COMMENT: IF: BOB in 30 sec. 156"
 IS: BOB in 7 min. 30"
 FF: BOB in 1 min. 80"
 FS: BOB in 10 min. 13"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.71	115.19	Initial Hydro-static
3	237.37	116.85	Open To Flow (1)
15	408.18	124.73	Shut-in(1)
45	1106.00	129.82	End Shut-in(1)
46	468.87	129.57	Open To Flow (2)
60	604.25	131.08	Shut-in(2)
92	1080.97	131.87	End Shut-in(2)
93	2051.66	132.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
119.00	gocm 40%g 10%o 50%rn	0.59
1539.00	go 10%g 90%o	21.59
0.00	1240 GIP	0.00

* Recovery from multiple tests

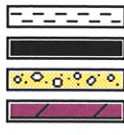
Gas Rates

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

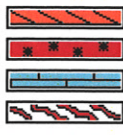
ROCK TYPES



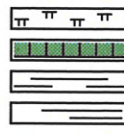
Anhy
Bent
Brec
Cht



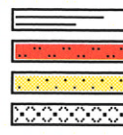
Clyst
Carb shale
Congl
Dol



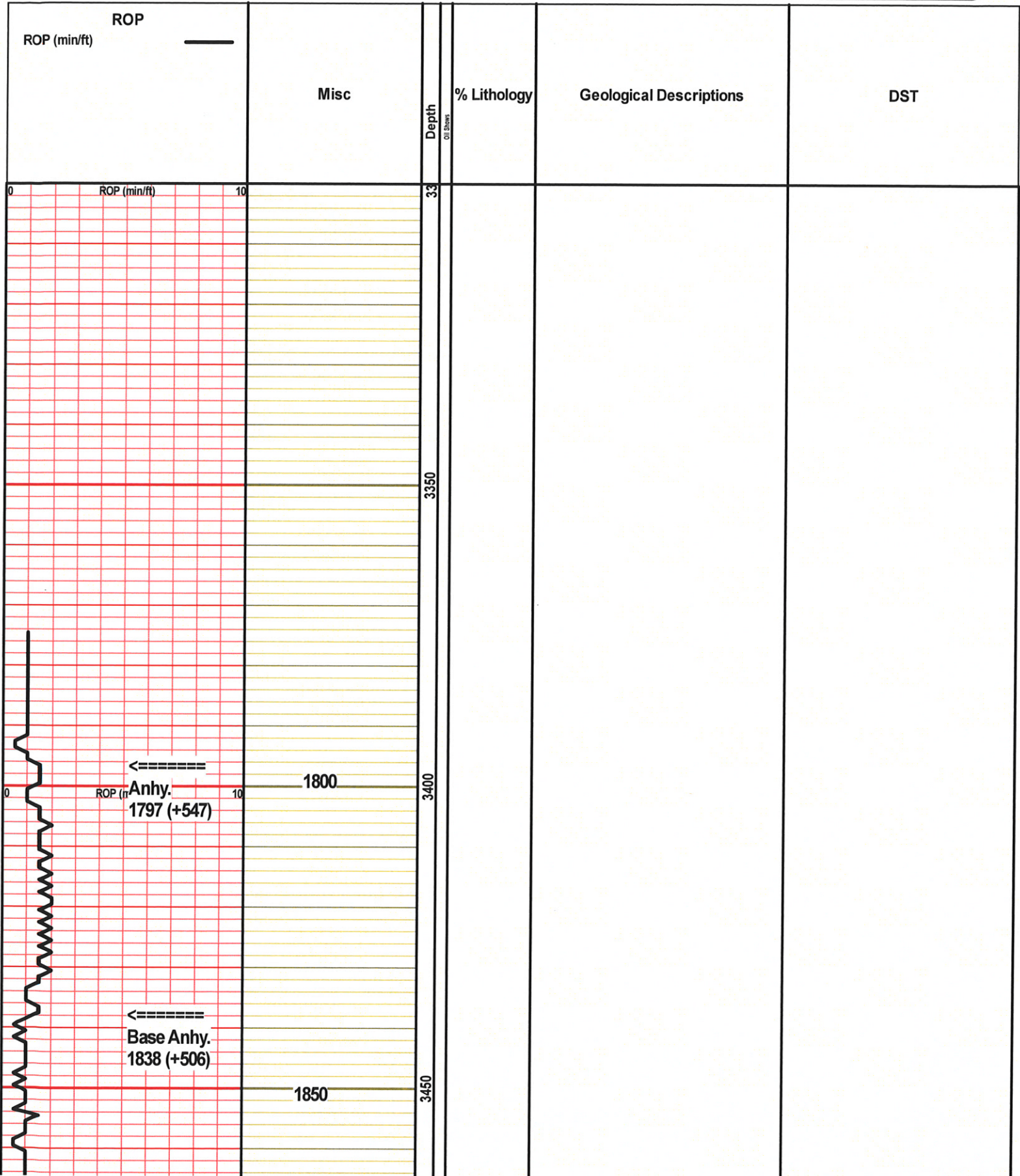
Gyp
Igne
Lmst
Meta

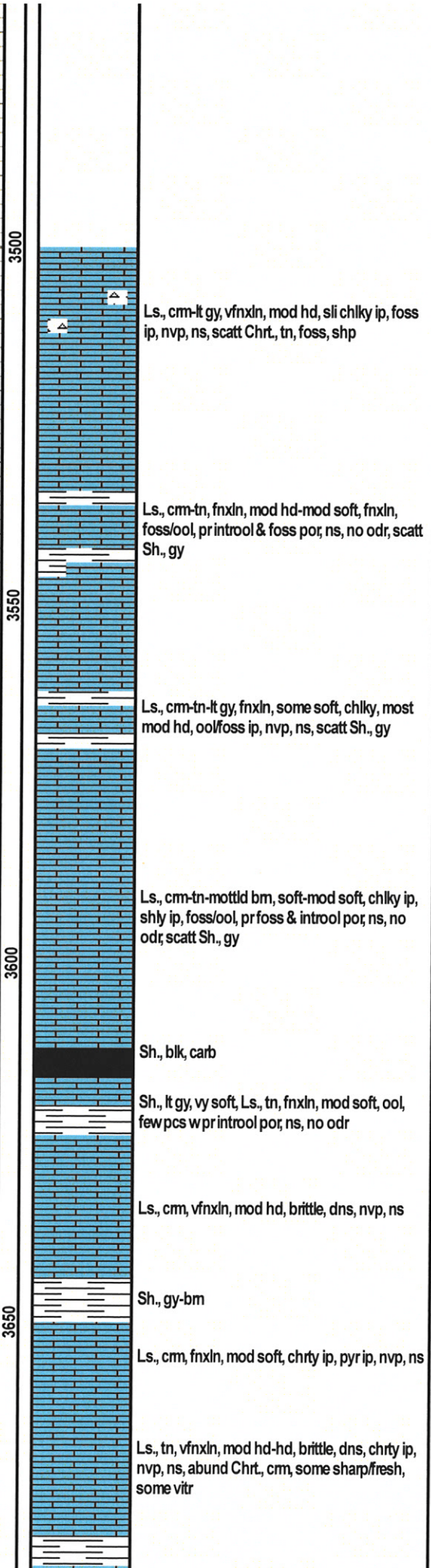
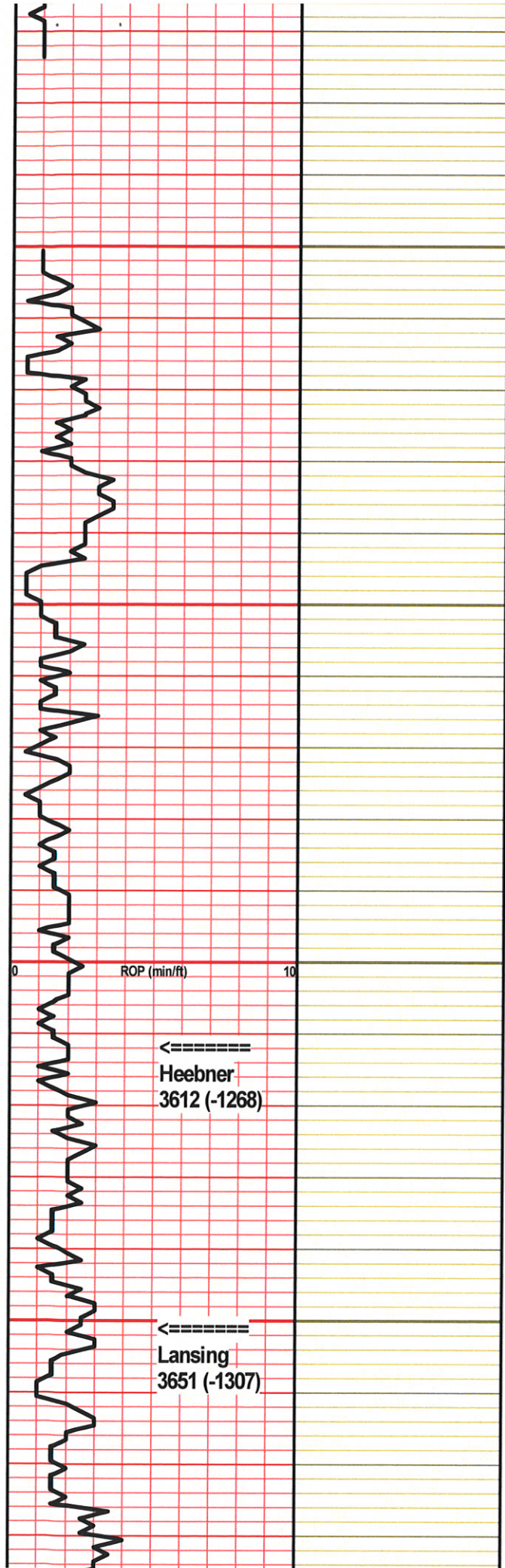


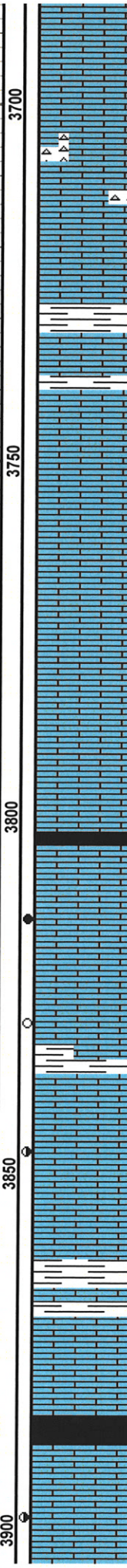
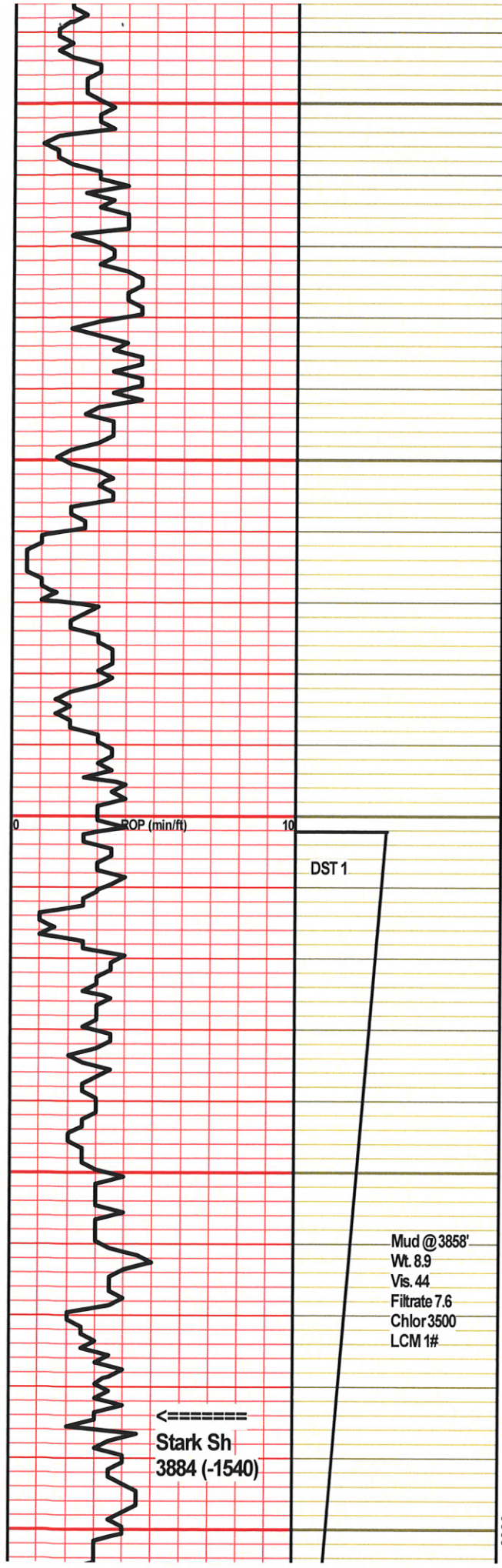
Mrlst
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till







Sh., gy-dk gy, soft, Ls., cm-tn, vfnxn, mod hd-hd, foss ip, nvp, ns

Ls., cm-buff, fnxn, mod hd, ool ip, fewwpr introol por, ns, no odr, scatt Chrt., org, weath

Ls., cm-lt gy, vfnxn, mod hd-hd, sli chlky ip, foss ip, nvp, ns, scatt Sh., gy-bm

Ls., cm, fnxn, mod hd-mod soft ip, brittle, ool ip, rare vy pr introol por, ns, no odr

Ls., tn, fnxn, mod hd, ool, fr ooc por, ns, no odr

Ls., cm-lt gy, vfnxn, mod hd, sli chlky ip, ool/foss ip, nvp, ns

Sh., blk, carb

Ls., cm, fnxn, sli soft, ool, pr-rare fr introol por, GSFO, bm stn in por, sli showgas, gd odr

Ls., cm-tn, fnxn, mod hd-hd, pyr ip, ool ip, some wvy pr introol & rare iso vug por, SSFO, bm spot stn, wk odr, scatt Sh., gy-bm

Ls., cm-tn, fnxn, mod hd, ool ip, scatt pcs wpr introol & rare pr-fr vug por, FSFO, bm spot stn in por, wk cup odr, fr odr on brk

Sh., bm-gy, soft, Ls., cm-lt gy, vfnxn, mod hd, ool ip, nvp, ns, no odr

Ls., cm-lt gy, fn-vfnxn, mod hd, ool ip, fewwpr ooc por, ns, no odr or fluoro

Sh., blk, carb

Ls., cm-tn, fnxn, mod hd, sli dol ip, ool ip, occ pr intrxn & introol por, FSFO, bm sub sat-sat stn, sli showgas, fr odr

DST #1 3802-3954 (Lower LKC)
 30-30-30-30
 IF: 1" blow, built to 7"
 IS: No blow
 FF: 1/2" blow, built to 9"
 FS: No blow

Recovery:
 126' GIP
 1' FO (100%O)
 60' OCM (10%O, 90%M)
 60' GOCWM (10%G, 40%O, 10%W, 40%M)

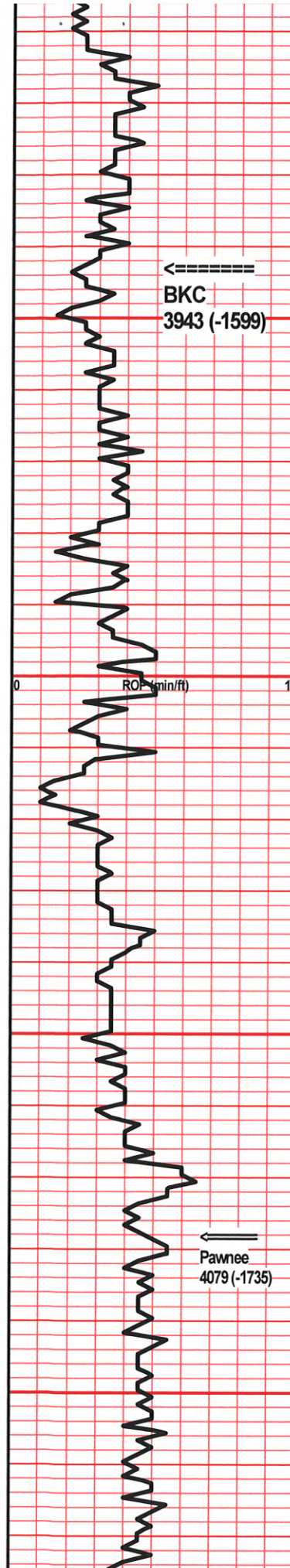
121' TF

FP: 21-47; 46-63
 SIP: 955-952
 HP: 1851-1784

BHT: 115
 Gravity: --
 Chlor: ---

Mud @ 3858'
 Wt. 8.9
 Vis. 44
 Filtrate 7.6
 Chlor 3500
 LCM 1#

←===== Stark Sh 3884 (-1540)



Short trip:
45 stds
Strap:
0.9' short
Dev. survey:
1 1/2 deg

CFS 3954

Mud @ 3995'
Wt. 9.1
Vis. 41
Filtrate 7.2
Chlor 6500
LCM #



Sh., dk gy-gy-bm, Ls., tn-lt gy, vfnxln, mod hd-hd, ool ip, dns, nvp, ns

Ls., lt gy-gy, vfnxln, mod hd, tr frags, vy pr intrxln por, SSFO, bm spot stn, wk odr, scatt Chrt., cm, shp

Ls., cm-lt gy, vfnxln, mod hd, sli chlky ip, tr frags, few pcs wvy pr intrxln por, VSSFO, tr bm stn, no det odr

Sh., gy-bm

Sh., gy-bm, silty ip, Ls., lt gy, vfnxln, hd, dns, nvp, ns

Ls., lt gy-gy, vfnxln, hd, dns, tr frags, nvp, ns

Sh., gy-bm, vy soft ip

Ls., cm, fnxln, mod hd, ool ip, foss ip, few pcs wvy pr introol & rare pr foss por, ns, no odr, no fluoro

Sh., gy, soft ip, Ls, cm-tn, fnxln, mod hd, ool ip, chlky ip, couple pcs wpr introol por, SSFO, bm sub sat stn, couple wNSFO, bm spot stn, vy wk odr

Ls., cm, fnxln, mod hd-mod soft, chlky ip, foss (reef), pr foss por, ns, no odr, scatt Chrt., gy, foss, shp

Ls., cm-lt gy, vfnxln, mod hd-hd, ool ip, dns, nvp, ns, scatt Sh., gy

Ls., lt gy, vfnxln, mod hd, sli chlky ip, nvp, ns

Sh., gy, Ls., aa

Ls., lt gy-gy, vfnxln, mod hd, sli shly ip, nvp, ns, scatt Sh., gy

Ls., gy, vfnxln, mod hd, shly ip, nvp, ns, scatt Sh., gy

←=====
Ft. Scott
 4143 (-1799)

←=====
Cher. Sh
 4169 (-1825)

←=====
Miss.
 4238 (-1894)

DST 2

CFS 4283

Mud @ 4283'
 Wt. 9.4
 Vis. 45
 Filtrate 7.6
 Chlor 5000
 LCM 1#

4150

4200

4250

4300

Sh., blk, carb

Ls., cm-tn, fn-vfnxn, hd, foss ip, ool ip, vy few pcs wvy pr introol por; VSSFO, tr lt bm stn, no det odr; scatt Sh., gy

Ls., cm-tn, vfn-fnxln, most dns nvp, few pcs ool-micro ool, pr-rare fr introol por; rare fr vug por; GSFO, even bm sat-sub sat stn, sli show gas, gd odr

Sh., blk, carb

Ls., cm-tn, fn-vfnxn, mod hd-hd, dns, ool ip, few pcs wvypr-pr introol & rare pr vug por; SSFO, lt bm spot stn, wk odr; scatt Sh., gy

Ls., cm-tn, fn-vfnxn, mod hd, chly ip, few pcs wvy pr intrxn por; SSFO, lt bm stn, vy wk odr; scatt Sh., gy

Ls., aa, ns, abund Chrt., tn-org, weath, scatt Sh., yel-bm, soft ip

Chrt. & Sh., aa, scatt Ls., tn, fnxn, mod hd, ool ip, weath, pr intrxn por; SSFO, bm spot stn, few pcs Dol., tn, vy pr intrxn por; SSFO, bm sat stn, wk cup odr

Sh., yel-bm-gy, soft, Ls. & chrt., aa, incr Dol., cm-tn, mod hd, pr intrxn & vug por, FSFO, bm spot-sub sat stn, fr odr

Dol., cm-tn, fnxn, 10-15% mod hd/firm, no-pr intrxn & vug por; GSFO in por, fr bleed, spot stn, rest sli sucr ip, fr intrxn & fr-gd vug & spic cast por, FSFO in most, few w GSFO, tr free oil in tray, even lt bm sat-sub sat stn, sli show gas, vy gd odr

Dol., cm, fnxn, 20-25% w pr intrxn & vug por, FSFO, bm spot stn, rest mostly sucr, fr intrxn, vug, & occ pr spic cast por, FSFO, bm sat stn in most, few w blk sub sat stn, sli show gas, scatt Chrt., wht-clr, broken, pr vis por, dk bm stn, vy gd odr

Dol., cm, fnxn, mod hd, pr-occ fr intrxn & vug por, FSFO, few w GSFO, sub sat-spot stn, fr odr, scatt Sh., gy, scatt Ls., lt gy-tn, vfnxn, mod hd-hd, dns, nvp, ns

Dol., tn, fnxn, mod hd-mod soft, sli sucr, tr glauc, pr-rare fr intrxn & occ pr vug por; SSFO, bm sub sat-spot stn, fr odr, abund Sh., gy-bm, scatt Ls., cm, vfnxn, mod hd, dns, nvp, ns

Dol., aa, decr shows, scatt Ls. & Sh., aa

Dol., cm, vfn-fnxln, mod hd-hd, some dns w nvp, rest glauc, pr intrxn por; few pcs wVSSFO, tr bm stn, vy wk odr; scatt Chrt., clr-wht, broken, scatt Sh., bm

Dol., cm-lt gy, vfnxn, mod hd-hd, few w pr intrxn por; ns, no stn, scatt Chrt., wht, trip ip, some broken, ns, abund Sh., gy-bm

DST #2 4242-4283
(Mississippi)

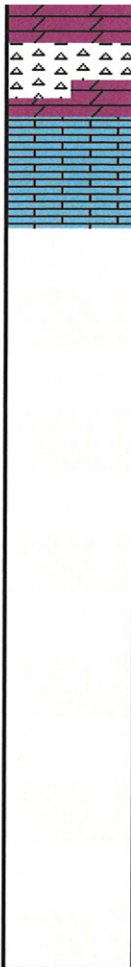
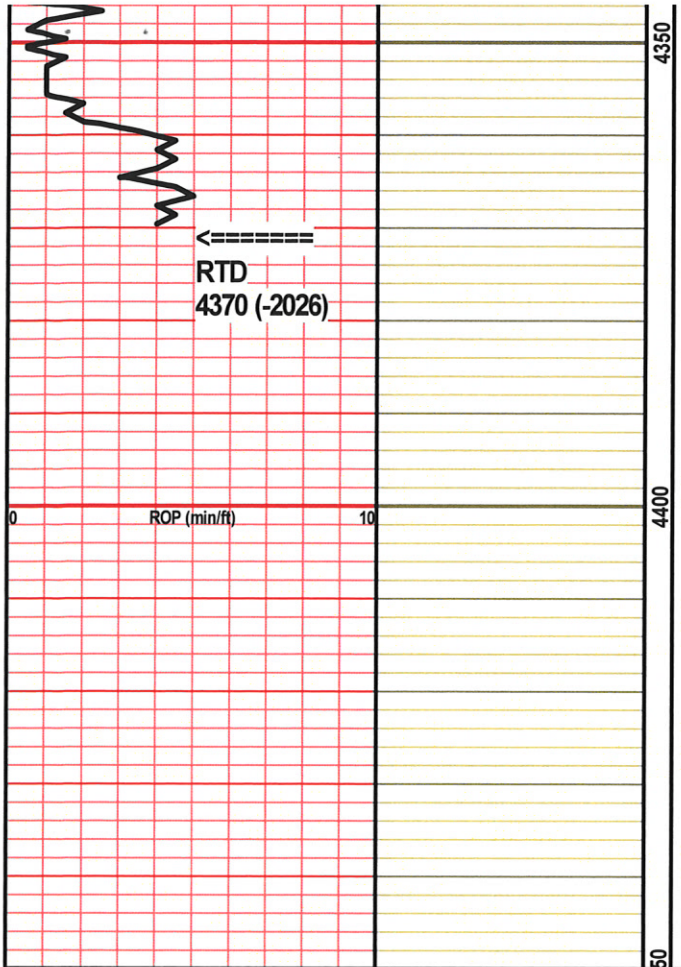
15-30-15-30
 IF: BOB in 30 sec, built to 154"
 IS: BOB in 7 min, built to 30"
 FF: BOB in 1 min, built to 80"
 FS: BOB in 10 min, built to 13"

Recovery:
 1240' GIP
 1539' GO (10%G, 90%O)
 119' GOCM (40%G, 10%, 50%M)

 1658' TF

FP: 237-408; 468-604
 SIP: 1106-1080
 HP: 2101-2051

BHT: 131
 Gravity: 38
 Chlor: ---



ool, ur, mair, mod mair, pr mair pot, ns, no
odr, abund Chrt, wht, fresh, few pcs trip, ns

Ls., tn-lt bm, vnfxlh, hd, dns, nvp, ns