KOLAR Document ID: 1659452

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 # 30742
Name: Palomino Petroleum, Inc.
Address 1: 4924 SE 84TH ST
Address 2:
City: NEWTON State: KS Zip: 67114 + 8827
Contact Person: Nick Gerstner
Phone: (316) 799-1000
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Chad Counts
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 #:

6/17/2022 Spud Date or Recompletion Date
6/23/2022 Date Reached TD
7/14/2022 Completion Date or Recompletion Date

API No.: 15-135-26178-00-00
Spot Description:
NW - NE - SW - NW Sec. 21 Twp. 16 S. R. 25 ☐ East ☑ West
1350 Feet from ☑ North / ☐ South Line of Section
891 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ness
Lease Name: MYSTERY TRAIN Well #: 1
Field Name:
Producing Formation: Fort Scott, Mississippian
Elevation: Ground: 2581 Kelly Bushing: 2589
Total Vertical Depth: 4660 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2024 Feet
If Alternate II completion, cement circulated from: 2024
feet depth to: 0 w/ 175 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 10000 ppm Fluid volume: 3420 bbls
Dewatering method used: Evaporated
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: 08/08/2022
☐ **Confidential Release Date:** 08/07/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** David Befort **Date:** 08/09/2022

Page Two

Operator Name: Palomino Petroleum, Inc. Lease Name: MYSTERY TRAIN Well #: 1

Sec. 21 Twp. 16 S. R. 25 ☐ East ☑ West County: Ness

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	222	Class A	170	Class A
Production	7.875	5.5	14	4652	SMD, EA-2	175	SMD, EA-2

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: 7/21/2022

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
4439	4443
4523	4551

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	4541	4551			
4	4523	4538			500 gal. 15% NE FE acid
4	4439	4443			250 gallons 15% MCA ;750 gallons 15% NeFe

TUBING RECORD: Size: 2.375 Set At: 4555 Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	MYSTERY TRAIN 1
Doc ID	1659452

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	222	Class A	170	Class A
Production	7.875	5.5	14	4652	SMD, EA-2	175	SMD, EA-2

FRANKS Oilfield Service, LLC

815 Main Street
Victoria, KS 67671
Email: franksoilfield@yahoo.com

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Invoice

Date	Invoice #
6/17/2022	0622

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To

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

RECEIVED
JUN 29 2022
BY:

County/State	Lease/Well#	Terms	Job Type
Ness County, KS	Mystery Train 1	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	65	6.50	422.50
8.33 tons at 65 miles	541.45	1.50	812.18
Surface Blend	170	24.50	4,165.00T
Discount		-654.97	-654.97

Cement for surface for #1
6/17

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

We appreciate your busines and look forward to serving you again!

Subtotal	$5,894.71
Sales Tax (6.5%)	$243.65
Balance Due	$6,138.36

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0622
LOCATION Haxie
FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-17-22	30142	Mystery Train 1	21	16	25	Ness

CUSTOMER: Palomino Petroleum Inc
MAILING ADDRESS: 4924 SE 84th St.
CITY: Newton | STATE: KS | ZIP CODE: 67114

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Tom W		
	Jack T		

JOB TYPE Surface | HOLE SIZE | HOLE DEPTH 225' | CASING SIZE & WEIGHT 8 5/8" 23#
CASING DEPTH 221 | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.8 | SLURRY VOL 1.4 | WATER gal/sk | CEMENT LEFT in CASING 20'
DISPLACEMENT 13 Bbl | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safety meting + set up on Dike #2 Circulate Mud. Pump 170 sx surface blend + displaced with 13 Bbl. Shut in cement did circulate
Shut in at 12:00 pm

Thanks Tom & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P100 2	1	PUMP CHARGE Surface	$1150.00	$1150.00
M001	65	MILEAGE	$6.50	$423.50
M002	8.33 tons	Ton Mileage Del 454	$812.18	$812.18
CB004	170 sx	Class A 3% cc 2% gel	$24.50	$4165.00
			subtotal	$6549.68
			less 10% disc.	$654.97
			subtotal	$5,894.71
			SALES TAX	243.65
			ESTIMATED TOTAL	6138.36

AUTHORIZATION Dion Vargas TITLE Toolpusher DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

SWIFT Services, Inc.

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

Invoice

DATE	INVOICE #
6/23/2022	34148

BILL TO

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

RECEIVED
JUN 27 2022
BY:

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Mystery Train	Ness	Duke Drlg Rig #2	Oil	Development	Long String	David E

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	25	Miles	7.00	175.00
578D-L	Pump Charge - Long String	1	Job	1,600.00	1,600.00
290	D-Air	2	Gallon(s)	42.00	84.00T
281	Mud Flush	500	Gallon(s)	2.00	1,000.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
403-5	5 1/2" Cement Basket	1	Each	300.00	300.00T
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	350.00	350.00T
409-5	5 1/2" Turbolizer	10	Each	100.00	1,000.00T
330	Swift Multi-Density Standard (MIDCON II)	125	Sacks	19.50	2,437.50T
325	Standard Cement	100	Sacks	15.00	1,500.00T
284	Calseal	5	Sack(s)	50.00	250.00T
283	Salt	550	Lb(s)	0.25	137.50T
285	CFR-1	50	Lb(s)	6.00	300.00T
276	Flocele	50	Lb(s)	3.00	150.00T
581D	Service Charge Cement	225	Sacks	2.00	450.00
582D	Minimum Drayage Charge	1	Each	350.00	350.00
	Subtotal				12,934.00
	Sales Tax Ness County			6.50%	673.34

long string for #1
6/23

We Appreciate Your Business!

Total $13,607.34

SWIFT Services, Inc.

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

TICKET 34148

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays Ks	#1	Mystery Train	Ness	Ks		6-23-22	
2. Ness City Ks	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR Duke Drilling	RIG NAME/NO. Rig #2	SHIPPED VIA Co	DELIVERED TO location	ORDER NO.	
3.	WELL TYPE oil	WELL CATEGORY development	JOB PURPOSE Long String		WELL PERMIT NO.	WELL LOCATION	
4.							
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE TRK # 111	25	mi			7 00	175 00
578		1			Pump Charge Long String	1	EA			1600 00	1600 00
290		1			D-Air	2	Gal			42 00	84 00
281		1			Mud Flush	500	Gal			2 00	1000 00
221		1			Liquid KCl	4	Gal			25 00	100 00
403		1			Cement Basket	1	EA	5½		300 00	300 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			350 00	350 00
409		1			Turbolizer	10	EA			100 00	1000 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

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	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	7359 00
	5575 00
	12934 00
Ness TAX	673 34
TOTAL	13607 34

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

SWIFT OPERATOR Davis Edgerton | APPROVAL

Thank You!

SWIFT Services, Inc.

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

TICKET CONTINUATION

TICKET No. 34148

CUSTOMER Palomino | WELL Mystery Train #1 | DATE 6-23-22 | PAGE 2 | OF 3

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
330						Swift Multi Density	125	SX			19 50	2437 50
325						Standard Cement	100	SX			15 00	1500 00
284						Calseal	5	SX			50 00	250 00
283						Salt	550	lbs			25	137 50
285						CFR-1	50	lbs			6 00	300 00
276						Flocele	50	lbs			3 00	150 00
						Minimum Drayage	1	EA				350 00
						SERVICE CHARGE 225 SX	CUBIC FEET				2 00	450 00
						MILEAGE CHARGE TOTAL WEIGHT 22300 LOADED MILES 25	TON MILES					

CONTINUATION TOTAL 5575 00

JOB LOG

SWIFT Services, Inc.

DATE 6-23-22 | PAGE NO.

CUSTOMER Pacomino | WELL NO. #1 | LEASE Mystery Train | JOB TYPE Long String | TICKET NO. 34148

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1530							On location
								Csg - 5½ x 14#
								RTD - 4660
								Total Pipe - 4644.20
								Shoe Jt - 38.33
								Centralizers - 1,2,3,4,5,114,6,7,8,64
								Basket - 63
								Port Collar - 63 @ 2024
	1700							Start Running Csg
	1820							Break Circ on Bottom
		2	8			0		Plug Rat hole - 30 sx
		2	4			0		Plug Mouse hole - 20 sx
		6	12			300		Pump Mud Flush - 500 Gal
		6	20			300		Pump KCL Spacer
		6	0			300		Start Cmt - 75 sx Sm @ 12.5
		6	29			300		Switch to 100 sx EA2 @ 15.5
		6	53			300		End Cmt
								Drop plug - Wash P&L
		7	0			200		Start Disp
	2115	6.5	112			800		Land plug @ 1500 #
								Release psi - Dry
								Job Complete
								Thanks
								Davis & Seth & Ismac

PALOMINO PETROLEUM, INC.

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

Well Name:	**Mystery Train #1**		
Well Id:	**15-135-26178**		
Location:	**NW NE SW NW Sec 21 T16S R25W**		
License Number:	**30742**	**Region:**	**Ness**
Spud Date:	**6/17/22**	**Drilling Completed:**	**6/22/22**
Surface Coordinates:	**38.649761, -100.098707**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**2581'**	**K.B. Elevation (ft):**	**2589'**
Logged Interval (ft):	**To:**	**Total Depth (ft):**	**4650'**
Formation:	**Mississippian**		
Type of Drilling Fluid:	**Chemical based mud**		

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: **Chad Counts**
Company: **MG Oil Inc.**
Address: **P.O. Box 162**
Russell, Ks 67665

Comments

The Mystery Train #1 was drilled with Duke #2 tools commencing 6-17-22, and drilling completer 6-22-22.

Owing to encountering a favorable structural position, positive DST results, and fairreservoir quality in the top of Mississippian; it was agreed upon by all parties to test the well further through 5 1/2" casing.

Respectfully Submitted,

Chad Counts

DSTS

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:52:45
Time Test Ended: 14:38:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Terrance
Unit No: 75

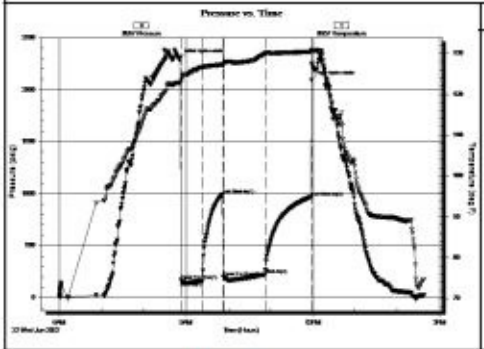
Interval: 4465.00 ft (KB) To 4550.00 ft (KB) (TVD)
Total Depth: 4550.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 2589.00 ft (KB)
2581.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8957 **Outside**
Press@RunDepth: 223.67 psig @ 4536.00 ft (KB)
Start Date: 2022.06.22 End Date: 2022.06.22
Start Time: 06:00:01 End Time: 14:38:15

Capacity: 8000.00 psig
Last Calib.: 2022.06.22
Time On Btm: 2022.06.22 @ 08:52:00
Time Off Btm: 2022.06.22 @ 11:58:30

TEST COMMENT: IF-30-10 Inches
ISI-30-No return
FF-60-14- Inches
FSI-60-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2303.98	122.93	Initial Hydro-static
1	166.93	122.77	Open To Flow (1)
31	152.97	126.60	Shut-In(1)
60	995.51	127.29	End Shut-In(1)
61	200.12	127.14	Open To Flow (2)
121	223.67	129.93	Shut-In(2)
186	970.56	130.43	End Shut-In(2)
187	2090.47	130.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	100% oil	2.33
190.00	MCO 60% oil 40% mud	2.76

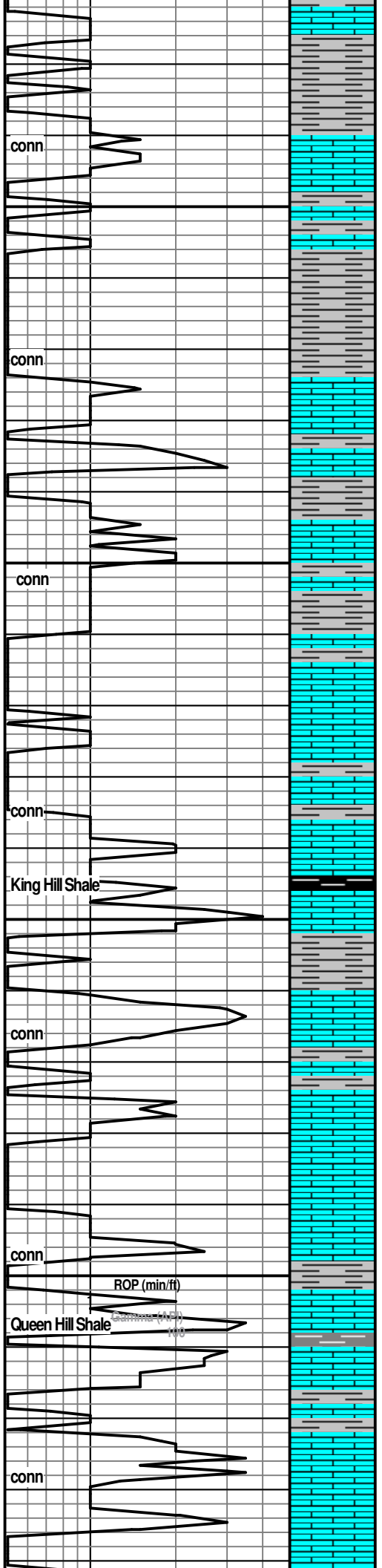
Gas Rates

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

ROCK TYPES

Anhy
Bent
Brec
Cht
Clyst
Coal
Oolitic limestone
Congl
Dol
Gyp
Igne
Dark grey shale
Black shale
Lmst
Meta
Mrlst
Salt
New symbol
Shale
Shcol
Shgy
Sltst
Ss
Till

Curve Track 1 ROP (min/ft) Gamma (API)	Lithology	Oil Shows	MD	DST	Straddle DST	Porosity Type	Image	Geological Descriptions	Remarks
ROP (min/ft) Gamma (API) 100 conn			3600					75% Shale: light-med grey, blue grey, sub platy, firm, non carb, sl. calc, 25% Ls: light grey-off white, arg, brittle, occ. scat fos frag, no vis por. 50% Ls: light grey-cream, micro xln, abdnt scat fusulinids, mod-hvy arg, no vis por, NSOC. 50% shale: med grey, sub platy	



platy.

30% Ls: light grey-cream, micro xln, scat fossil frag, mod arg, dense, no vis por. 70% shale: med grey-fk grey, firm sub platy- platy. Trc ss: brown grey, v fn grn, well std, micaceous, arg, no vis por, mod cons. NSOC.

60% Ls: lt grey-white, cream, micro xln, v dense, sharp cleav, sl-non arg, no vis por, trc fos frag, NSOC. 40% shale: med grey-sub platy-platy, no silty, firm, sl calc.

50% Ls: lt grey-cream, micro xln, occ gs w/ poor no vis sec por, occ. arg- sl arg, overall tight, NSOC. 50% shale: med-lt grey, firm, calc, sub platy-blocky.

50% Ls: cream, white, micro xln, dense, occ lt brown-beige oolitic gs, fair oomoldic por, 350-500 microns, w std, NSOC. 50% shale: light to med grey, sub platy, mod firm-soft.

80% Ls: lt brown, beige, lt grey, (10% oolitic gs, 250-300 micorns, w std, fair ingl por, NSOC.) 20% med grey shale.

MW 8.9
VIS 53
2# LCM

80% ls, lt grey, cream, micro-vfn xln, lith tex, scat fos frag, no vis por,NSOC. 20% lt-med grey shale, sub platy, mod firm, sl calc.

90% Ls: cream-lt grey, micro xln-vfn xln, occ fos frag, sl arg, no vis por, dense, litho tex, NSOC. 10% sh: lt grey, sub platy, firm, calc.

Ls: lt grey-cream, micro xln-fn xln, trc vf oolitic gs, fair vis por, most dens, mod ar, NSOC.

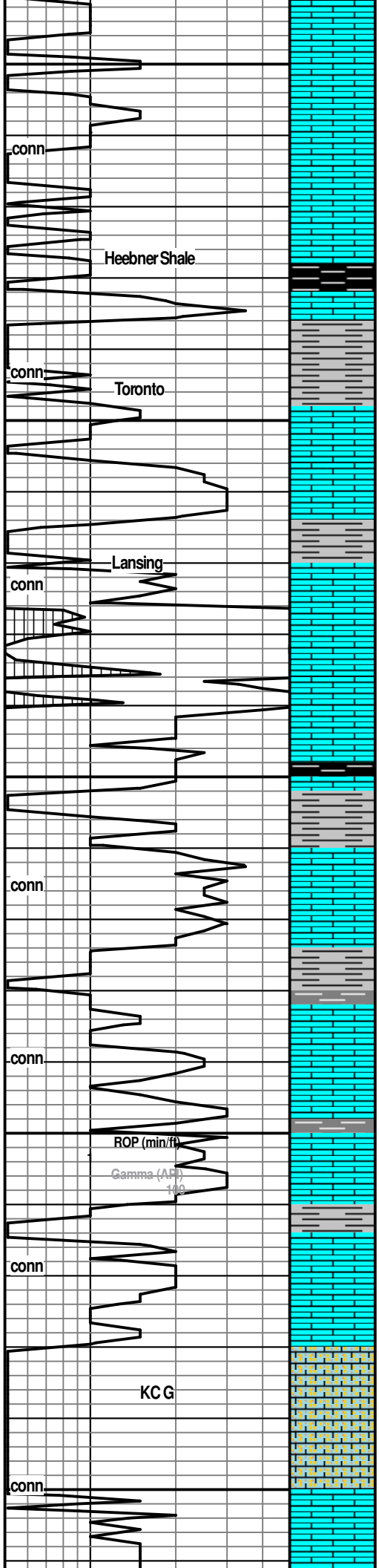
Ls: lt grey, cream, fn xln, occ. dense, most brittle w/ mod-hvy marl, poor vis por, scat fossil frag, NSOC. <%5 black shale, v. platy, mod carb, sl calc.

Ls: cream-lt grey, fn xln-micro xln, occ v dense & brittle, occ. mottled plant mat, fair marl cont, trc w/fir inxl por, NSOC.

Ls: cream, buff, micro xln-fn xln, mostly desne, occ brittle w/ mod marl, trc organic mat, NSOC. 10% shale: light grey, firm, well cemented, calc, blocky.

Ls: cream- lt grey, micro xln, litho tex, occ. mod arg, dense, trc fossil frag, sl marl, NSOC. 10% shale: lt-med/dk grey, sub platy, firm, calc.

Ls: cream, light grey, occ oolitic w/ poor-no vis sec por, granular tex, mod cemented, mod marl, abdnt fossil frag, NSOC.



Ls: cream, lt grey brown, fn xln, v brittle, mod-hvy marl, occ fair inxl por, occ. fossil frag, trc mottled org mat, NSOC. 5% med-dk grey platy shale.

Ls: grey-cream, lt brown, fn xln, mod britte, mod marl cont, scat org mat, poor vis por, scat fos frag, NSOC. 10% Black shale, firm platy, very carb, occ well cemented and calc.

Ls: cream, lt brown, hvy mottled plant mat, occ grainstone w/ large bioclasts,abdnt marl poor-no vis secondary por. 20% Black shale, firm platy, very carb.

Ls: cream-white, micro xln, dense, occ gs with poor-no sec por, mod marl, sl cherty (grey opaque), NSOC. 20% Light grey shale, soft, blocky smooth.

Ls: cream, white, micro xln, dense, no vis por, sharp cleavage, lltho tex, cherty, NSOC. Sh: lt grey, soft, easily washed.

Bit trip @3941'
(3 blades damaged)

Strap: 2.52' Long

Ls: cream, off white, light grey, micro xln, litho text, occ pyrite, sl cherty, r scat fos frag,no vis por, NSOC. Sh: blue grey, sub platy, mod firm, Trc black shale.

MW 9.1
Vis 55
1# lcm

Ls: cream, off white, micro xln-vf xln, litho text, trc beige oolitic grainstone, partially oomoldic por, 200-250 microns, poorly std, mod marl cont, very poor por, no stain or odor. 20% sh: lt-med grey, sub platy, smooth, sl calc.

Ls: cream, white, beige, micro xln, v dense, occ scat fossil frag, sl marl cont, most w/ sharp cleav, no vis por, NSOC. 10% Dk grey platyt-blady shale, brittle.

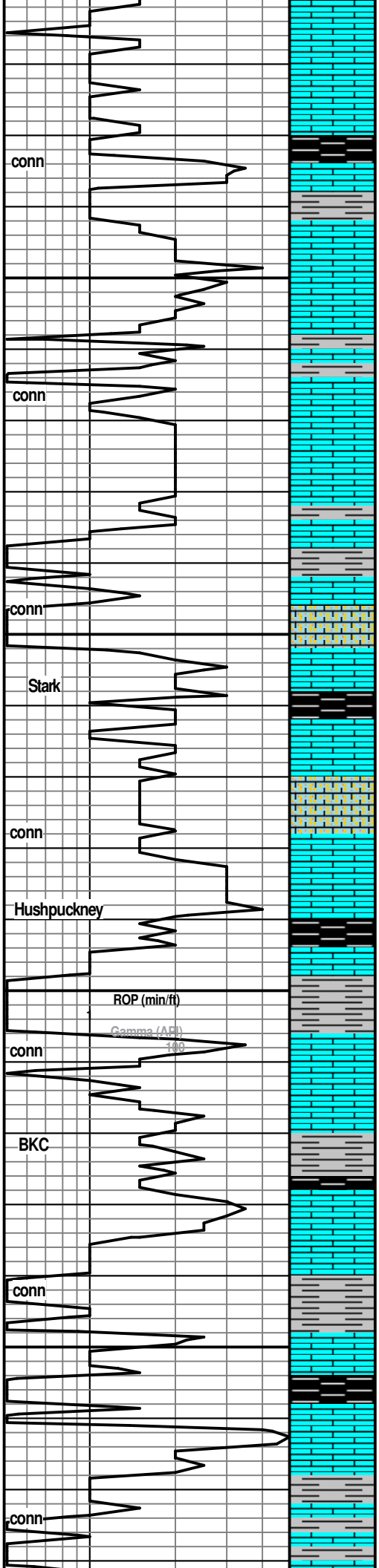
Ls: cream, white, micro xln-v fxln, few w/ vf granular tex, dense,sl cherty, no vis por, NSOC. 10% med dk grey shale.

Ls: cream, beige, micro xln-v fn xln, poor-no vis por, trc vf ooltic grainstone, sl-mod marl, poor moldic por, NSOC. Trc med grey calc shale, firm, subplaty.

Oolitic ls: cream, oomoldic, 350-500 microns, well std, good moldic por, sl. marl, non arg, v well cemented, NSOC.

MW 9.0
VIS 58
2# LCM

Ls: lt grey-cream, micro xln-v fn xln, non arg, litho tex, no



vis por, chert (grey-white opaque), NSOC. 10% oolitic A.A

Ls: cream, lt grey, off white, micro xln, occ. oomoldic por, poor scatterd sec por, poorly std, sl marl, NSOC. 5% black shale, girm, sub platy, carbonaceous.

Ls: lt grey-cream, micro xln, occ fossil frag, sl arg, mod marl no vis por, v dense, NSOC. 5-10% black shale A.A

Ls: lt grey, cream, lt brown, micro xln-fn xln, poor-no vis por, hvy marl (white wash), sl arg, NSOC.

Ls: cream, white, lt grey, micro xln, mod-hvy marl, occ brittle, trc fossil frag, NSOC.

Ls: cream, white, micro xln, occ earth tex, sl-mod marl, no vis por, trc fos frag, NSOC. 5% med-lt grey shale, sub platy.

Mudco check
MW 9.0
Vis 56
Filtrate 5.8
Chloride 1900
2# LCM

Ls: cream, white, micro xln, r vf xln w/marl matrix, most dense, no vis por, NSOC.

Ls: cream, off white-tan, micro xln, v dense, sl marl cont, sl cherty (orange trans), no vis por, NSOC. 10% light-med grey sh, sub platy, mod firm, mod calc.

Oolitic Ls: cream, oomoldic, honey comb tex, sl marl cont, poorly sorted, 400-750 micron molds, v poor connectivity, well cemented, trc pyrite in molds, NSOC.

Ls: cream, off white, lt grey, micro xln-vf xln,, vpoor-no vis por, mod marl cont, trc fossil frag. 20% oolitic A.A. NSOC. 5% Black shale, firm, v platy, carbonaceous.

Ls: cream-off white, micro xln, no vis por, mod-hvy marl cont, brittle, NSOC.

Ls: cream, white, micro xln, mod marl, mod brittle, sl cherty, no vis por, NSOC.

Ls: cream, tan-beige, micro xln, dense, 10% beige oomoldic ls, 500 microns, well std, poor conn, barren, NSOC. 10% SHALE: med-dk grey, sub platy, smooth, non calc.

50% Black shale, platy-sub platy, mod firm, v carb, sl. calc. 25% Grey shale: soft smooth, sub platy-non platy. 25% Ls: cream, white, micro xln, no vis por, NSOC.

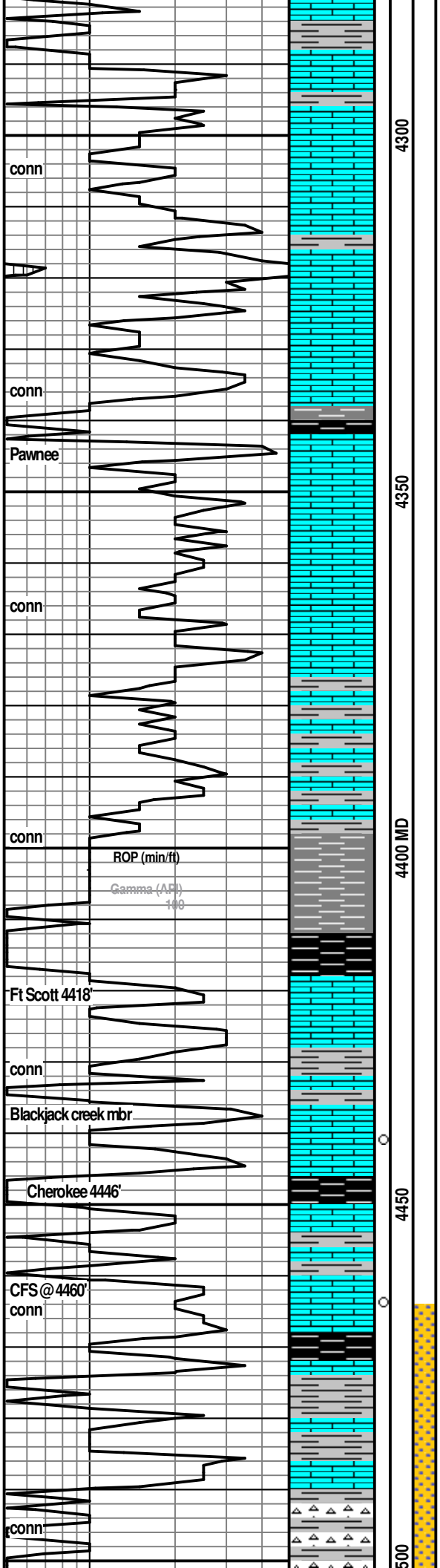
Ls: lt grey, cream, micro xln, sl arg, sl marl cont, mostly dense, cherty, occ fossil frag, NSOC.

Ls: lt grey, micro xln,m sl arg, few scat bio clasts, sl cherty, occ brittle w/marl filled por, NSOC.

Ls: lt grey, lt brown, cream, micro xln, occ. gs with no vis sec por, v dense, mod arg-non arg, sl-mod marl, NSOC.

Ls: variety of color: cream, lt grey, off white, beige, salmon, micrtitic, various arg cont, no vis por, mostly dense, occ fossil frag, NSOC. 20% sh: med grey, maroon, sub platy. Trc dk grey-black shale, mod carb.

Ls: cream, lt grey, micro xln, trc lt brown oolitic grainstone, no secondary por, 350-500 microns, NSOC. Shale: lt blue grey, sub platy-non platy, smooth, sl calc.



Ls: lt grey, beige, micro xln, v dense, no vis por, sharp cleavage. Sh: med-lt grey, calcareous firm (occ soft), sub platy.

Ls: cream-lt grey, micro xln, mod arg, v dense, occ. mod marl, r scat fossil frag, NSOC. Trc chert, white, opaque.

Ls: Light grey-beige, micro xln, v dense, mod-hvy arg, no vis por, NSOC. 10% dk grey-black shale, platy-blady, fissile, mod firm-brittle.

Ls: cream-lt grey, micro xln, no vis por, v dense, trc fossil hash, v small clasts, no secondary por, v. dense, NSOC.

Ls: lt grey-grey, some cream, micro xln, mod-hvy arg, dense, no vis por. 10% med grey shale, calc firm.

Ls-calcareous shale, grey-med grey, dense, no vis por, very arg, platy-blocky.

Sh: med-dk grey, calcareous, firm, platy. 20% calcareous shale A/A.

Flood dk grey-black shale, very carbonaceous, very platy. Trc Ls: cream, micro xln, dense, no vis por, NSOC.

50% Black shale a.a. 50% Ls: cream, micro xln, trc grainstone w/ no sec por.

Ls: cream- beige-lt brown, micro xln, scat fossil frag, dense,mod arg, sl marl, occ brittle, no vis sec por, NSOC, no odor. 40% shale, grey, subplaty, mod firm, mod calc.

20"Ls: cream-off white, micro xln, 3 cuttings found w scattered rare pp vugs, very slight stain in vugs, no free oil, very faint odor in cup.

40"-Ls: cream, off white, micro xln, occ scattered fossil frag, no vis por, 2 cutting w/trc light brown edge stain, questionable odor, no free oil.

60"Ls: cream, grey, micro xln, 5 cuttings w scattered pp vugs, no matrix por, vfn sparry calcite overgrowth in vugs, trace oil stain, very faint odor, no free oil.

Lag to 4465': Ls, cream, white, micr xln, dense, <1% w scatt pp por, poor connectivity, asphaltic dark edge stain, one droplet free oil, faint odor.

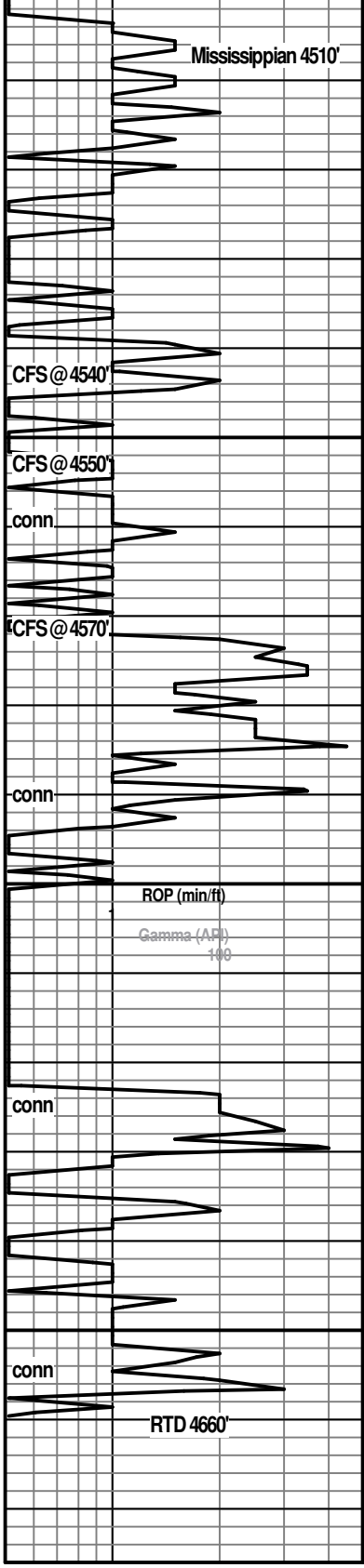
Lag to 4470': Ls white, cream, micro xln, mod marl, dense, NSOC. 30% sh: med grey, sub platy, firm

MW 9.2
Vis 56
1# LCM

Lag to 4480: Sh: med grey, turqouise, waxy tex, non platy, smooth. Ls: cream-white, micro xln, dense, NSOC. 2 cutting w/trc dead stain.

Lag to 4485': Ls: light grey cream, micro xln, occ fossil frag, no vis por, mod arg, sl. marl, NSOC. Sh: A/A.

DST #1
Mississippian



Lag to 4490' Chert: orange, white, pink,brown, translucent-opaque, no stain. Various shales: turquoise, mustard, green. Limestone: off white, micro xln, dense.

Lag to 4500': Various silicified limestone, shale and chert. Multiple colors.

20"-Lag to 4510'-Lime , chert and shale a/a. <1% dolomite, lt brown,fn xln, well cemented, poor-fair vuggy por, fair even oil stain and sat, fair-good odor

40"-lag to 4533'-ls:light grey brown, cream, r scat pp vug, overall poor por, mod arg, scat stain, weak-no sat, questionable odor.

60" 15% dolomite: lt brown, fn xln, poor-fair scat vuggy por, up to 350 micron vugs, fair stauration, fair odor, FSFO.

20" 20% dolomite: light brown, good even vuggy porosity, up to 700 micron vugs, good even sat and stain, GSFO, good odor.

40" 30% dolomite,: lt brown-brown, fn-med xln, occ sparry, excellent vuggy por, vugs up to 1100microns, even stain and sat, GSFO, strong pungent odor.

60" 20-30% dolomite: lt brown,med xln, fair scattered vuggy por, light even brown stain, GSFO, fair-strong odor.

4570 20": Dolomite-white, fn xln, poor scat vuggy por, <5% sample w v weak spotty saturation and stain, SSFO, faint odor.

40": Dolomite-off white, fn xln, occ scat pp vug, <1% sample with spotty dead stain, questionable odor.

60" A/A

Dolomite: cream-off white, fn xln, scat pp vugs, fair inxl por, r spot dead stain, no show free oil. Sh lt grey-green, grey, plat-blady, no calc.

Dolomite: cream-lt grey, fn xln, poor vis inxl por, v well cemented, abdnt marl. 5% chert, white-blue, opaque. NSOC.

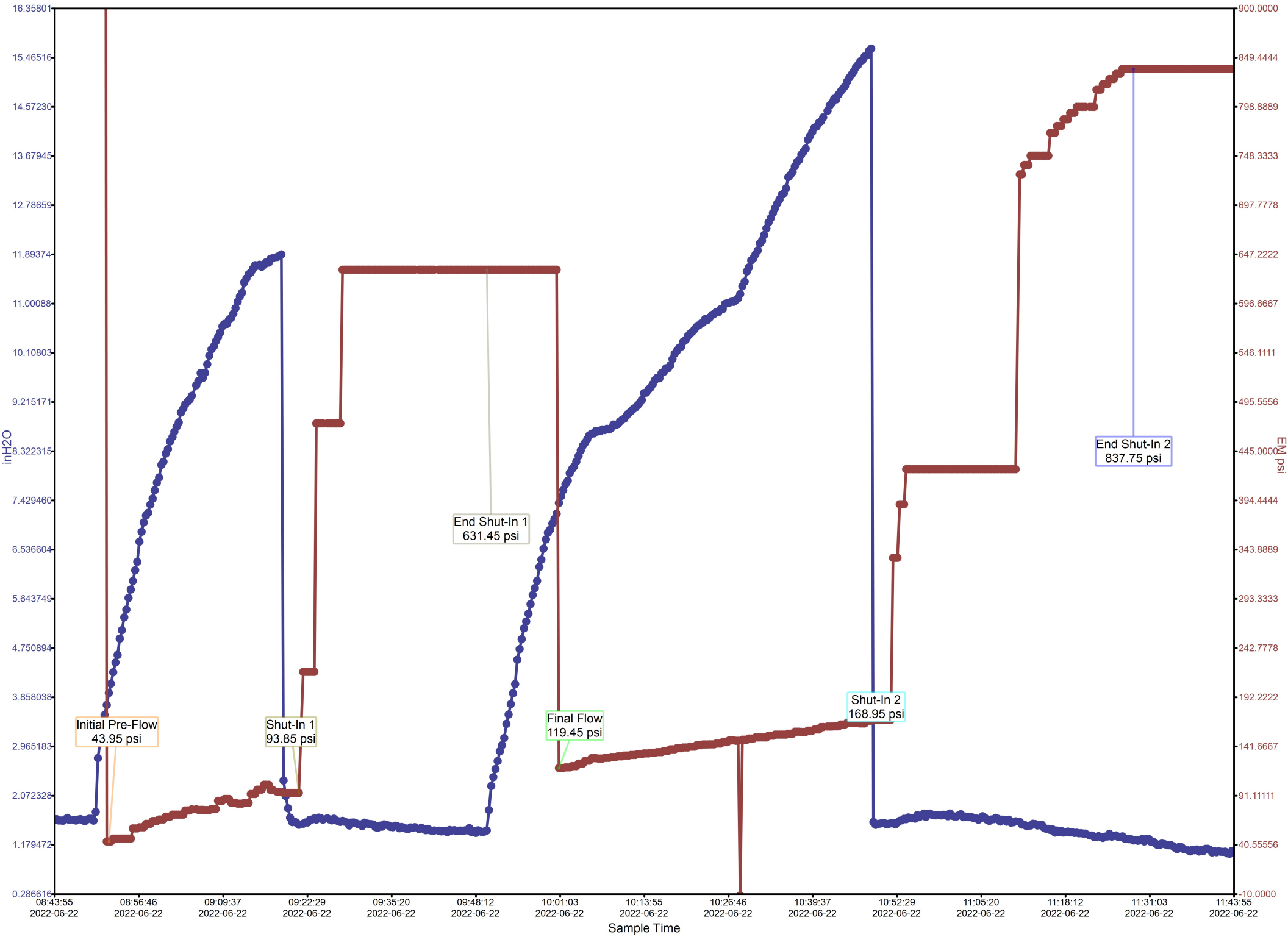
Dolomite: white, cream, fine xln, poor vuggy and inxl por, NSOC. Abdnt chert-white. Sh: grey, green, platy, waxy, sl calc.

Dolomite: white cream, fn-med xln, poor-fair inxl por, well cemented, NSOC. 10% chert, light blue grey, bony white.

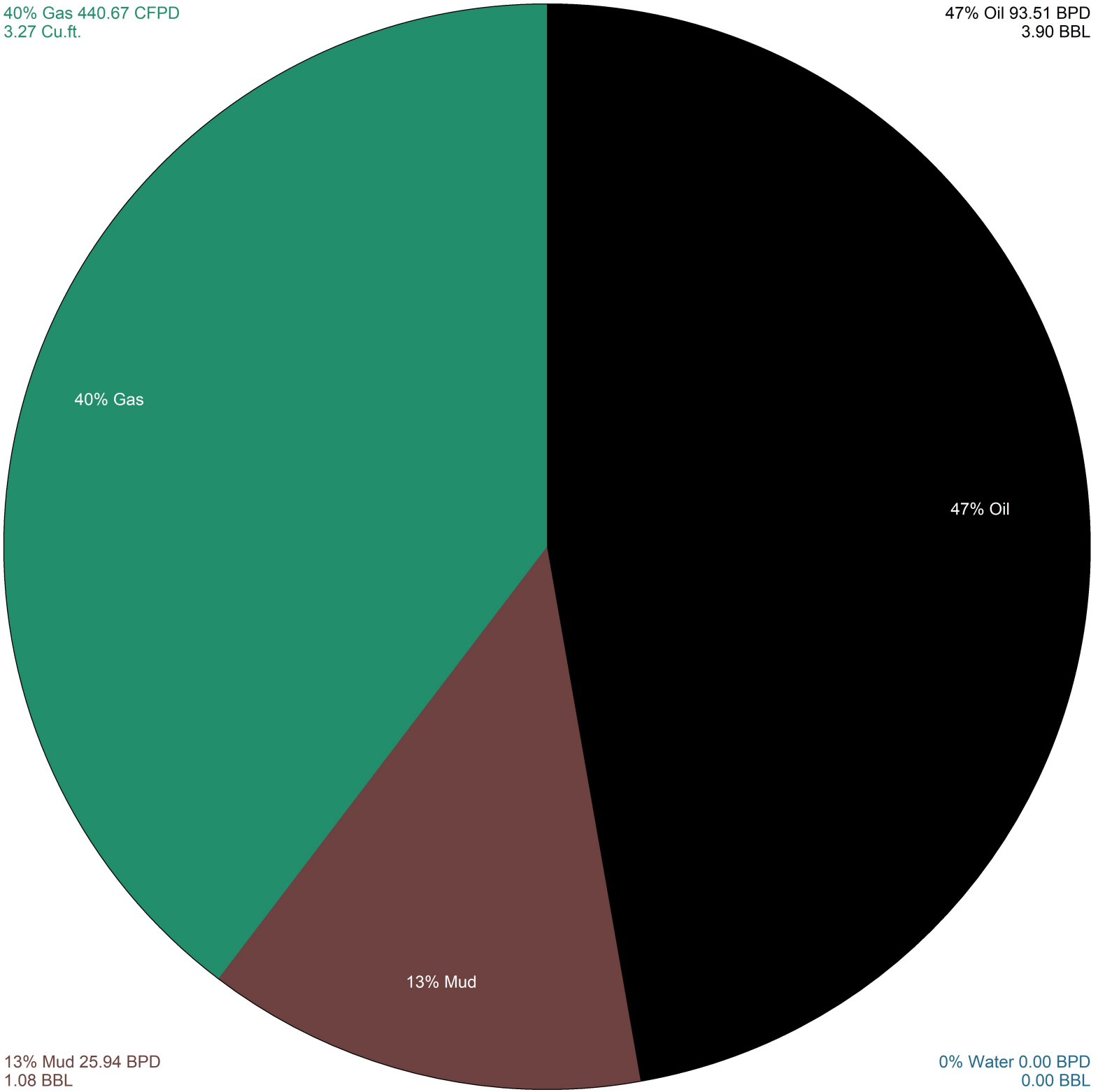
4465-4550'
30-30-60-60
IFP 153-166psi
ISIP 996psi
FFP 200-224psi
FSIP 970psi
Recovered:
230' GIP
160' CGO
190' OCM (60% O)
Gravity 41 degrees

Mudco check
MW 9.2
Vis 60
Filtrate 5.6
Chloride 2600
1# LCM

Palomino Petroleum - Mystery Train 1 - DST # 1



Calculated Recovery Analysis - Palomino Petroleum - Mystery Train 1 - DST # 1



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924SE 84 St
Newton KS 67114-8827

ATTN: Chad Counts

Mystery Train #1

21-16-25w Ness,KS

Start Date: 2022.06.22 @ 06:00:00
End Date: 2022.06.22 @ 14:38:15
Job Ticket #: 59513 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.06.24 @ 10:57:50

DRILL STEM TEST REPORT

Palomino Petroleum

4924SE 84 St
New ton KS 67114-8827

ATTN: Chad Counts

21-16-25w Ness,KS

Mystery Train #1

Job Ticket: 59513 **DST#: 1**

Test Start: 2022.06.22 @ 06:00:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:52:45
Time Test Ended: 14:38:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Terrance
Unit No: 75

Interval: 4465.00 ft (KB) To 4550.00 ft (KB) (TVD)
Total Depth: 4550.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

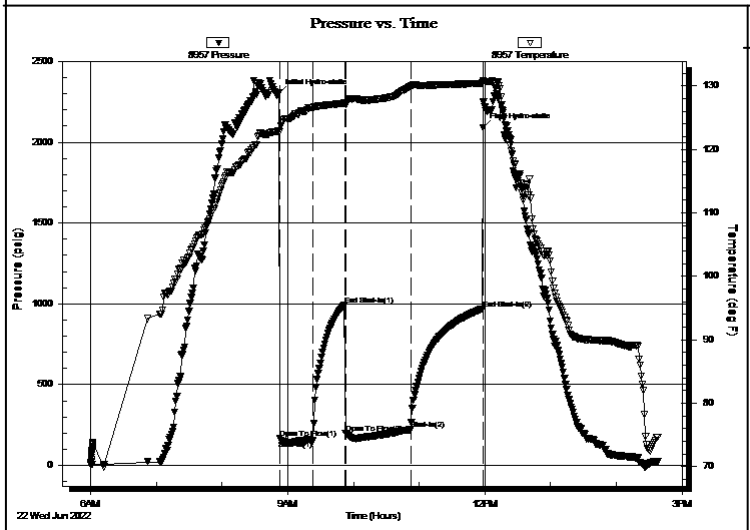
Reference Elevations: 2589.00 ft (KB)
2581.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8957 **Outside**

Press@RunDepth: 223.67 psig @ 4536.00 ft (KB)
Start Date: 2022.06.22 End Date: 2022.06.22
Start Time: 06:00:01 End Time: 14:38:15

Capacity: 8000.00 psig
Last Calib.: 2022.06.22
Time On Btm: 2022.06.22 @ 08:52:00
Time Off Btm: 2022.06.22 @ 11:58:30

TEST COMMENT: IF-30-10 Inches
ISI-30-No return
FF-60-14- Inches
FSI-60-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2303.98	122.93	Initial Hydro-static
1	166.93	122.77	Open To Flow (1)
31	152.97	126.60	Shut-In(1)
60	995.51	127.29	End Shut-In(1)
61	200.12	127.14	Open To Flow (2)
121	223.67	129.93	Shut-In(2)
186	970.56	130.43	End Shut-In(2)
187	2090.47	130.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	100% oil	2.33
190.00	MCO 60% oil 40% mud	2.76

Gas Rates

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

DRILL STEM TEST REPORT

Palomino Petroleum

4924SE 84 St
New ton KS 67114-8827

ATTN: Chad Counts

21-16-25w Ness,KS

Mystery Train #1

Job Ticket: 59513 **DST#: 1**

Test Start: 2022.06.22 @ 06:00:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:52:45
Time Test Ended: 14:38:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Terrance
Unit No: 75

Interval: 4465.00 ft (KB) To 4550.00 ft (KB) (TVD)
Total Depth: 4550.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

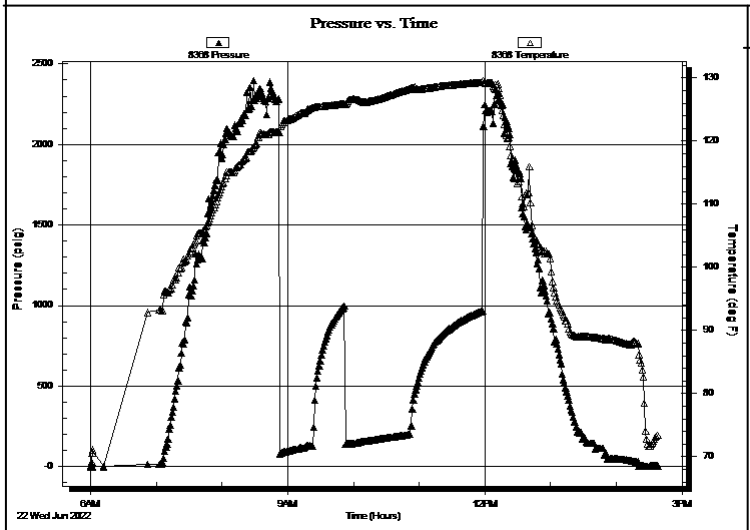
Reference Elevations: 2589.00 ft (KB)
2581.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8368 **Inside**

Press@RunDepth: psig @ 4536.00 ft (KB)
Start Date: 2022.06.22 End Date: 2022.06.22
Start Time: 06:00:05 End Time: 14:38:15

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-30-10 Inches
ISI-30-No return
FF-60-14- Inches
FSI-60-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
160.00	100% oil	2.33
190.00	MCO 60% oil 40% mud	2.76

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

4924SE 84 St
New ton KS 67114-8827

ATTN: Chad Counts

21-16-25w Ness,KS

Mystery Train #1

Job Ticket: 59513 **DST#: 1**

Test Start: 2022.06.22 @ 06:00:00

Tool Information

Drill Pipe:	Length:	4522.00 ft	Diameter:	3.87	inches	Volume:	65.79	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	65.79	bbl	

Drill Pipe Above KB:	88.00 ft
Depth to Top Packer:	4465.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	85.00 ft
Tool Length:	116.00 ft
Number of Packers:	2
Diameter:	7.88 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		60000.00 lb
Tool Chased		ft
String Weight:	Initial	58000.00 lb
	Final	60000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4435.00		
Shut In Tool	5.00			4440.00		
Hydraulic tool	5.00			4445.00		
Jars	5.00			4450.00		
EM Tool	3.00			4453.00		
Safety Joint	3.00			4456.00		
Packer	5.00			4461.00	31.00	Bottom Of Top Packer
Packer	4.00			4465.00		
Stubb	1.00			4466.00		
Perforations	5.00			4471.00		
Change Over Sub	1.00			4472.00		
Drill Pipe	63.00			4535.00		
Change Over Sub	1.00			4536.00		
Recorder	0.00	8368	Inside	4536.00		
Recorder	0.00	8957	Outside	4536.00		
Perforations	11.00			4547.00		
Bullnose	3.00			4550.00	85.00	Bottom Packers & Anchor
Total Tool Length:	**116.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

4924SE 84 St
New ton KS 67114-8827

ATTN: Chad Counts

21-16-25w Ness,KS

Mystery Train #1

Job Ticket: 59513 **DST#: 1**

Test Start: 2022.06.22 @ 06:00:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

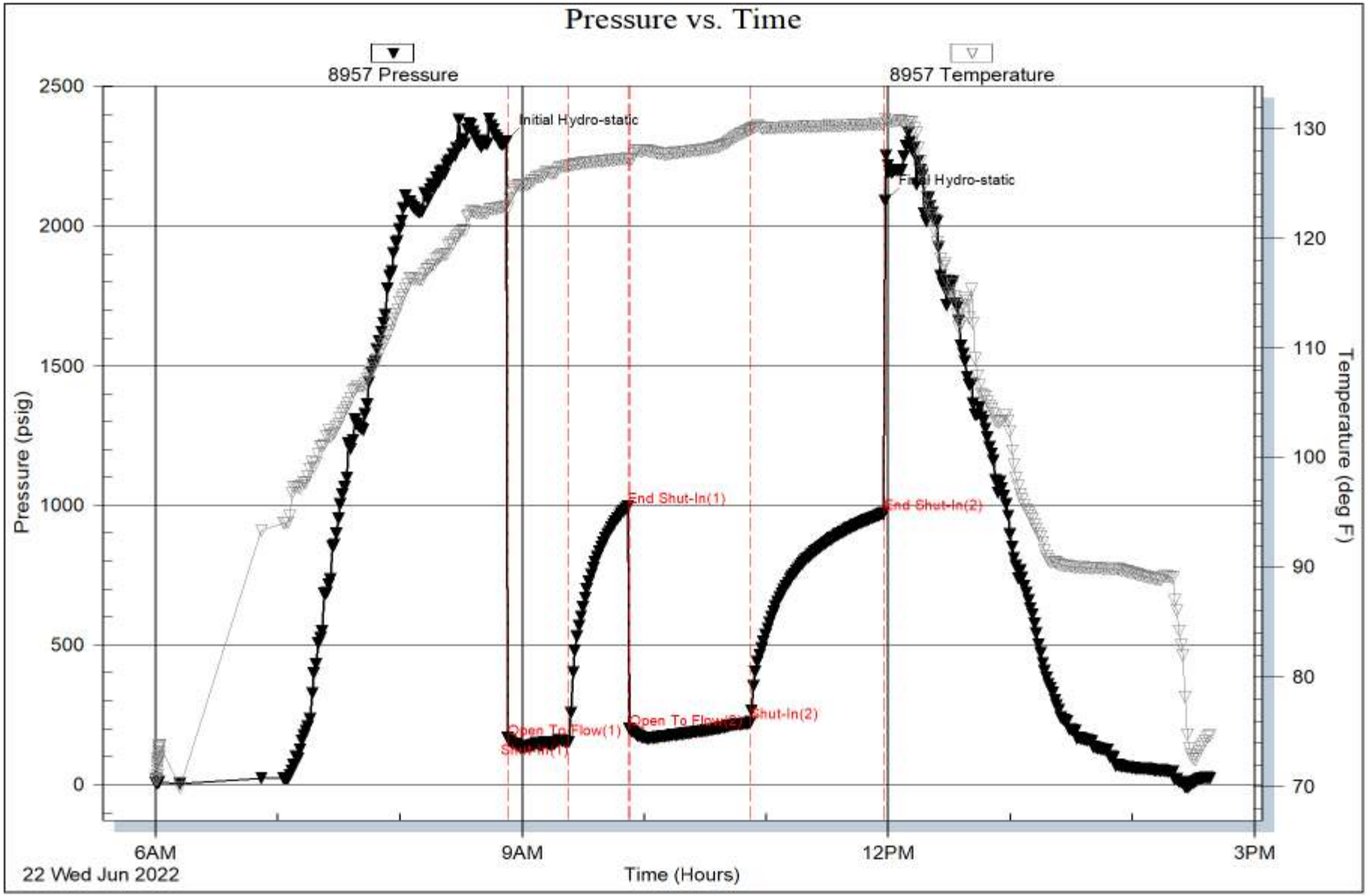
Recovery Table

Length ft	Description	Volume bbl
160.00	100% oil	2.328
190.00	MCO 60% oil 40% mud	2.764

Total Length: 350.00 ft Total Volume: 5.092 bbl

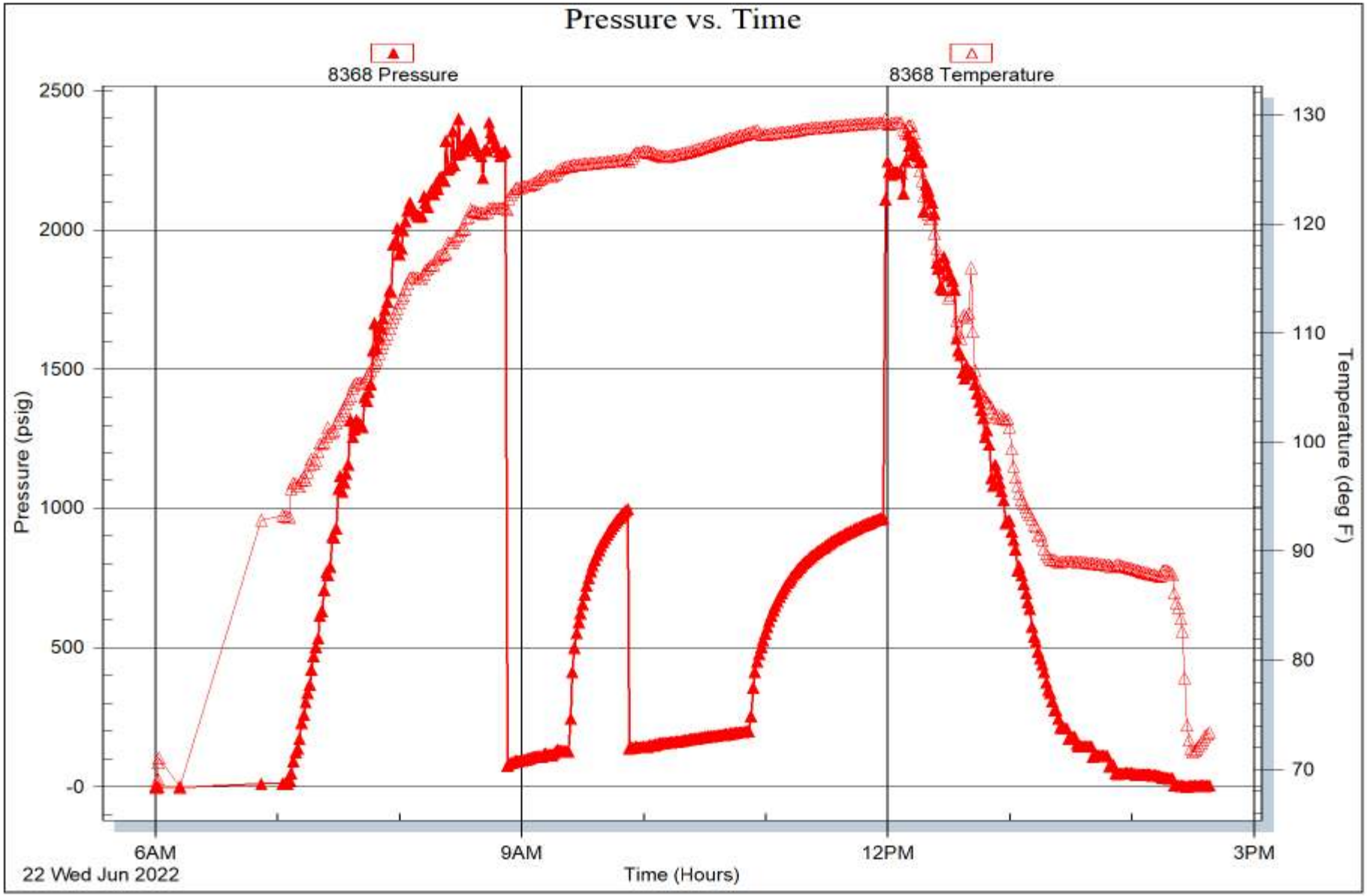
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8957 **Outside** Palomino Petroleum Mystery Train #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 59513 Printed: 2022.06.24 @ 10:57:51

Serial #: 8368 **Inside** Palomino Petroleum Mystery Train #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 59513 Printed: 2022.06.24 @ 10:57:51

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 59513

Well Name & No. Mystery Train #1 Test No. 1 Date 6-22-22

Company Palomino Petroleum Elevation 2589 KB 2581 GL

Address 4924 SE 84th St Newton, KS 67114-8827

Co. Rep / Geo. Chad Counts Rig Duke 2

Location: Sec. 21 Twp. 16 Rge. 25W Co. Ness State KS

Interval Tested 4465-4550 Zone Tested Miss

Anchor Length 85 Drill Pipe Run 4522 Mud Wt. 9.0

Top Packer Depth 4460 Drill Collars Run Vis 54

Bottom Packer Depth 4465 Wt. Pipe Run WL 5.8

Total Depth 4550 Chlorides 1900 ppm System LCM

Blow Description IF- 30 - 10 inches
ISI - 30 - No Return
FF - 60 - 14 inches
FSI - 60 - No Return

Rec 230	Feet of	100	%gas	%oil	%water	%mud
Rec 160	Feet of		%gas	100 %oil	%water	%mud
Rec 190	Feet of		%gas	60 %oil	%water 40	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud

Rec Total BHT 129 Gravity 41 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2304	☒ Test 1950	T-On Location 2:30
(B) First Initial Flow 166	☒ Jars 300	T-Started 6:00
(C) First Final Flow 153	☒ Safety Joint	T-Open 8:49
(D) Initial Shut-In 996	☐ Circ Sub	T-Pulled 11:49
(E) Second Initial Flow 200	☒ Hourly Standby	T-Out 14:35
(F) Second Final Flow 224	☒ Mileage 106rt 318	Comments
(G) Final Shut-In 970	☐ Sampler	Loaded tools 6/23 6:00
(H) Final Hydrostatic 2090	☐ Straddle	EM Tool
	☐ Shale Packer	☐ Ruined Shale Packer
Initial Open 30	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies
Final Flow 60	☐ Day Standby	Sub Total 0
Final Shut-In 60	☐ Accessibility	Total 2568
	Sub Total 2568	MP/DST Disc't

Approved By Our Representative Terrance Wickham