

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	MARILYN 1
Doc ID	1466469

All Electric Logs Run

Dual Receiver Cement Bond
Micro
Sonic
Dual Induction
Compensated Density/Neutron PE
Radiation Guard

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	MARILYN 1
Doc ID	1466469

Tops

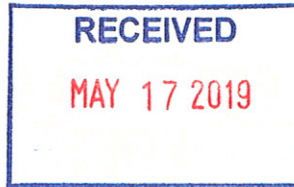
Name	Top	Datum
Anhy.	1695	(+ 724)
Base Anhy.	1732	(+ 687)
Heebner	3767	(-1348)
Lansing	3809	(-1390)
BKC	4128	(-1709)
Marmaton	4171	(-1752)
Pawnee	4242	(-1823)
Ft. Scott	4315	(-1896)
Cherokee Sh.	4341	(-1922)
Miss Dol.	4414	(-1995)
LTD	4561	(-2142)



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: 5/14/2019
 Invoice # 1432
 P.O.#:
 Due Date: 6/13/2019
 Division: Russell

Invoice



Contact:
 Palomino Petroleum Inc
Address/Job Location:
 4924 SE 84th
 Newton Ks 67114

Reference:
 MARILYN 1 SEC 3-19-25

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 675.02	No				
Common-Class A	120	\$ 1,870.26	Yes				
Calcium Chloride	7	\$ 296.58	Yes				
POZ Mix-Standard	30	\$ 158.88	Yes				
Bulk Truck Matl-Material Service Charge	160	\$ 121.05	No				
Premium Gel (Bentonite)	3	\$ 65.82	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 51.07	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 39.72	No				

Invoice Terms:

Net 30

SubTotal: \$ 3,278.41
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (81.96)

SubTotal for Taxable Items:	\$ 2,331.76
SubTotal for Non-Taxable Items:	\$ 864.69
Total:	\$ 3,196.45
Tax:	\$ 151.56

6.50% Ness County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,348.01
Applied Payments:
Balance Due: \$ 3,348.01

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. 1432

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-14-19	3	19	25	NESS	KS		9:45 PM
Location				Lard 1/2 W JRD 1/2 S W into			

Lease	Manilyn	Well No. 1	Owner
Contractor	WW #5		To Quality Oilwell Cementing, Inc.
Type Job	Surface		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Hole Size	12 1/4	T.D. 210	Charge To
Csg.	8 5/8	Depth 208	Palomino Petroleum
Tbg. Size		Depth	Street
Tool		Depth	City
Cement Left in Csg.	10	Shoe Joint	State
Meas Line		Displace 12 1/2 BCL	The above was done to satisfaction and supervision of owner agent or contractor.
			Cement Amount Ordered 150 80/20 3/1 CC 2/1 GEL

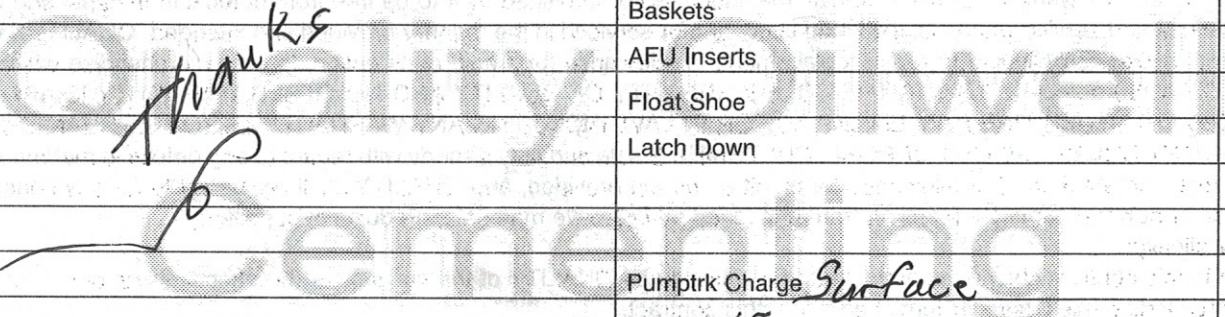
EQUIPMENT			
Pumptrk	No. 20	Cementor Craig	Common 120
		Helper Tony	Poz. Mix 30
Bulktrk	No.	Driver	Gel. 3
Bulktrk	No. 9	Driver Jack	Calcium 7

JOB SERVICES & REMARKS	
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	Sand
8 5/8 on bottom Best Circulation.	Handling 160
Mix 150 SK & Displace.	Mileage
Cement Circulated	

FLOAT EQUIPMENT	
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Surface
Mileage	15

X Signature	Tax
	Discount
	Total Charge





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



Invoice

DATE	INVOICE #
5/22/2019	32302

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

RECEIVED

MAY 26 2019

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Marilyn	Ness	WW Drlg Rig #8	Oil	Development	5 1/2 Longstring	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				15	Miles	5.00	75.00
578D-L	Pump Charge - Long String				1	Job	1,400.00	1,400.00
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
403-5	5 1/2" Cement Basket				1	Each	275.00	275.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
409-5	5 1/2" Turbolizer				10	Each	90.00	900.00T
419-5	5 1/2" Rotating Head Rental				1	Each	250.00	250.00T
325	Standard Cement				100	Sacks	13.50	1,350.00T
284	Calseal				5	Sack(s)	40.00	200.00T
283	Salt				500	Lb(s)	0.25	125.00T
285	CFR-1				50	Lb(s)	5.00	250.00T
276	Flocele				50	Lb(s)	3.00	150.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	17.00	2,125.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
290	D-Air				3	Gallon(s)	42.00	126.00T
581D	Service Charge Cement				225	Sacks	1.85	416.25
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							11,817.25
	Sales Tax Ness County						6.50%	628.94

We Appreciate Your Business!

Total \$12,446.19



Services, Inc.

TICKET 032302

CHARGE TO: Palomina Petroleum
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City, KS
 2. _____
 3. _____
 4. _____

WELL/PROJECT NO. #1
 TICKET TYPE SERVICE SALES
 CONTRACTOR WLD
 WELL TYPE Oil
 INVOICE INSTRUCTIONS _____

LEASE Marilyn
 COUNTY/PARISH Ness
 RIG NAME/NO. 8
 WELL CATEGORY Development
 JOB PURPOSE Long String 5 1/2"
 STATE KS
 CITY Lard
 SHIPPED VIA CT
 DELIVERED TO Location
 WELL PERMIT NO. _____

DATE 5/22/2019
 ORDER NO. _____
 WELL LOCATION Lard, 3/4-8, 3/4-W
1/2-S, E-1nb

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT	
		LOC	ACCT	DF		QTY.	UM	QTY.			UM
575		1			MILEAGE <u>Trk #112</u>			15	m	5.00	75.00
578		1			103 <u>Pump Change - Long String</u>			1	job	1400.00	1400.00
404		1			<u>Port Collar</u>			1	ea	2500.00	2500.00
403		1			<u>CMT Baskets</u>			1	ea	275.00	275.00
406		1			<u>Latch down Plug + Baffle</u>			1	ea	250.00	250.00
407		1			<u>Insert float Shoe w/ Aub fill</u>			1	ea	325.00	325.00
409		1			<u>Turbolizer</u>			1	ea	90.00	90.00
419		1			<u>Rotating Head Rental</u>			1	ea	250.00	250.00

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 5-22-2019 TIME SIGNED 5:46
 AM P.M.

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

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	5975.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	5842.25
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					11817.85
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					62894
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		12446.19
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR Jordan Fuchs APPROVAL _____

Thank You!



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

TICKET CONTINUATION

TICKET No. **032302**

CUSTOMER **Palomino Petroleum**

WELL **Marlyp #1**

DATE **5-22-2019** PAGE **2** OF **2**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT			
		LOC	ACCT	DF			QTY	U/M	QTY	U/M					
326						Standard CMT					100	13 </td <td>50</td> <td>1350</td> <td>00</td>	50	1350	00
284						Calscal					5	40	200	200	00
283						Salt					500	2.25	125	125	00
285						CFR-1					50	5	250	250	00
276						Flocele					50	3	150	150	00
330						SMD					125	17	2125	2125	00
221						Liquid KCL					4	25	100	100	00
281						Mud Flush					500	1	750	750	00
290						D-Air					3	42	126	126	00
581						SERVICE CHARGE					225	1	85	416	25
582						MILEAGE CHARGE					2000	250	250	250	00
						TOTAL WEIGHT	LOADED MILES		CUBIC FEET		TON MILES				
						2000	16		Mn Charge		225				

CONTINUATION TOTAL **5842 25**

JOB LOG

SWIFT Services, Inc.

DATE 5-22-2019 PAGE NO. 1

CUSTOMER Palomino Petroleum WELL NO. #1 LEASE Marilyn JOB TYPE Long String 5 1/2" TICKET NO. 032302

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							On Location 5 1/2" ¹⁴ 1 1/2 16/ft RTD: 4560' LTD: 4561' TP: 4563' SJ: 41.70' PC: 1693' #68 out: 109, 110, 111
								Turbo: 1, 3, 5, 7, 9, 11, 13, 15, 17 Baskets: 68
	1345							Start 5 1/2" ¹⁴ 1 1/2 16/ft Casing in well
	1545							Drop Ball - Circulate & Rotate
	1630	6 1/2	12		✓	250		Pump 500 gal Mud Flush
		6 1/2	20		✓	250		Pump 20 bbl KCL Flush
	1640	1/2	10			0		Plug RH [30]
	1645	4 1/2	48		✓	200		Mix ⁹⁵ 90 95 sks of SMD @ 12.5 ppg
		4 1/2	24		✓	200		Mix 100 sks EA-2 @ 15.5 ppg
	1705							Wash out Pump + Lines Release Latch down Plug
	1710	6 1/2	0		✓	100		Start Displacement
		6 1/2	80		✓	250		1ft Pressure
		6 1/2	109		✓	800		Max lift Pressure
	1730	6 1/2	110		✓	1600		Land Latch down Plug
								Release Pressure & Plug Hold
	1740							Wash-up Trk #112
	1800							Job Complete 125 sks SMD 1/4" Flo + 100 sks EA-2 5% Cal Seal, 10% Salt, 1/2" CFR-1, 1/4" Flo used

Thank You
AP - Dave Director, Tsonc



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



Invoice

DATE	INVOICE #
6/5/2019	32306

BILL TO	RECEIVED JUN 10 2019
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	Marilyn	Ness	Express	Oil	Development	Port Collar	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				10	Miles	5.00	50.00
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)				140	Sacks	17.00	2,380.00T
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
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							4,959.00
	Sales Tax Ness County						6.50%	187.79

We Appreciate Your Business!	Total	\$5,146.79
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CHARGE TO: Palomino Petroleum
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 032306

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City, KS WELL/PROJECT NO. #1 LEASE Manlyra COUNTY/PARISH Ness STATE KS CITY Laird DATE 6-6-2019 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR Esper RIG NAME/NO. SHIPPED VIA CT DELIVERED TO Location ORDER NO.
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Port Collar WELL PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE <u>TRK #113</u>	10	mi	1		5.00	50.00
5760		1			<u>Pump Change - Port Collar</u>	1	job	1		1400.00	1400.00
330		1			<u>SMD Cement</u>	140	skts	1		17.00	2380.00
276		1			<u>Floccle</u>	50	lbs	1		3.00	150.00
290		1			<u>D-Air</u>	2	gal	1		42.00	84.00
106		1			<u>Port Collar Tool Rental</u>	1	job	1		275.00	275.00
581		1			<u>CMT Service Charge</u>	200	skts	1		1.85	370.00
582		1			<u>Minimum Drillage Charge</u>	1	job	1		250.00	250.00

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 6-6-2019 TIME SIGNED 10:00 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? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1
 NESS TAX 0.10
 TOTAL 5746.99

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR [Signature] APPROVAL [Signature]
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE

6-5-2019

PAGE NO.

1

CUSTOMER Palomino Petroleum		WELL NO. #1		LEASE Marilyn		JOB TYPE Port Collar		TICKET NO. 032036
--------------------------------	--	----------------	--	------------------	--	-------------------------	--	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							On Location 2 7/8" 5 1/2" PC: 1693'
	0845	0	1		✓	1,000		Test BS to 1,000 PSI * Hold *
	0850							Open PC
	0855	3	4		✓	300		Injection Rate
	0900	4	77		✓	250		Mix 140 sks of SMD 1/4" F ₆ @ 11.2 ppg
	0920	3 1/2	8 3/4		✓	300		Displace CMT
	0925							Close PC
	0930							
	0930	0	0		✓	1,000		Test BS to 1,000 PSI * Hold *
	0935							
	0935							Run 4 Joints
	0945	4	25		✓	300		Reverse Clean Wash up Trk #112
								Job Complete 140 sks of SMD 1/4" F ₆ used * 20 sks to the Pit *
								Thank You
								Gideon, Preston, + Kirby



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



Invoice

DATE	INVOICE #
6/7/2019	32309

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

RECEIVED
 JUN 13 2019

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Marilyn	Ness	Express	Oil	Development	Acid & Squeeze	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	15	Miles	5.00	75.00
578D-D	Pump Charge - Deep Squeeze (> 1500 Ft.)	1	Job	1,400.00	1,400.00
300 - 15%	Regular Acid	250	Gallons	2.00	500.00
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	13.50	1,012.50T
581D	Service Charge Cement	75	Sacks	1.85	138.75
582D	Minimum Drayage Charge	1	Each	250.00	250.00
	Subtotal				3,441.25
	Sales Tax Ness County			6.50%	65.81

We Appreciate Your Business!	Total \$3,507.06
-------------------------------------	-------------------------



TICKET 032309

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

PAGE 1 OF 1

SERVICE LOCATIONS

1. Ness City, KS WELL/PROJECT NO. # 1 LEASE Marlyn COUNTY/PARISH Ness STATE KS CITY Land DATE 6-7-2019 OWNER
 2. TICKET TYPE SERVICE CONTRACTOR Express RIG NAME/NO. SHIPPED VIA air DELIVERED TO Location ORDER NO.
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Acid + Squeeze WELL PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
576		1		MILEAGE	15	mi	1	job	1400.00	1400.00
578		1		Pump Charge						
300		1		Regular Acid	2	gal			500.00	1000.00
230		1		Surf-3	1	gal			40.00	40.00
235		1		Inhib-1	1	gal			40.00	40.00
325		1		Standard CMT	13	skts			101.20	1315.60
581		1		CMT Service Charge	1	skts			138.50	138.50
582		1		Minimum Drillage Charge	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 6-7-2019 TIME SIGNED 12:16
 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	PAGE TOTAL	TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	3441.36
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"/>	<input type="checkbox"/>	<input type="checkbox"/>		
CUSTOMER DID NOT WISH TO RESPOND					
TAX					65.81
TOTAL					3507.16

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR Adam Fuchs APPROVAL
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6-7-2019 PAGE NO. 1 of 2

CUSTOMER Palomino Petroleum WELL NO. #1 LEASE Marilyn B JOB TYPE Acid + Squeeze TICKET NO. 082309

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							On Location 2 7/8" 5 1/2' Perfs: 4466'-67' PKR: 4356 4456'-67' Spot: 4468
	0845 0850	3 1/2	25	✓		350		Load Hole Set PKR
	0855	1/2	1/2	✓		3000		Pressure Test to 3000 PSI * Hold Release Pressure
	0905 0920	3 1/2 1/2	26 1/3 0	✓ ✓		1200		Spot Acid 6-Acid 20 1/3-H2O Stage @ 1200 PSI -> Brake
		2	3	✓		250		Treat
	0925 0930							Pull up + Set PKR Injection Rate
		4	14	✓		850		
	0940							Swab back 40 bbls
	1030 1035						500	Pressure Test BS to 500 * Hold * Load Tubing - Take Injection Rate
		3 3	16 4	✓ ✓		0 500		IJ
	1045	3 1/2	16	✓				Mix 75 sks Standard CMT @ 15.5 ppm
	1055							Wash out Pump + Lines
	1100	3 1/2	0	✓		0		Start Displacement
		3 1/2	16	✓		1,000		
		3	17	✓		1700		
		2 1/2	18	✓		2300		
		1	19	✓		2400		
		1/2	19 3/4	✓		2500		Squeezed off
	1110							Wash up Trkr #118

JOB LOG

SWIFT Services, Inc.

DATE 6-7-2019 PAGE NO. 2 of 2

CUSTOMER Palomino Petroleum WELL NO. #1 LEASE Marilyn JOB TYPE Acid + Squeeze TICKET NO. C932309

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Cont. ...
	1120	1/2	0		✓		750	Pressure up BS to 750 BS
		1/2	0	✓		1800		Pressure Test Squeeze *Hold*
								Release Pressure -Unset PKR-
	1130	2	25		✓		600	Wash down 3 Joints of tubing
	1150	3	35		✓		450	Reverse Clean
	1200							Set PKR
		1/2	0		✓		500	Pressure BS to 500
		1/2	0	✓		1800		Pressure Squeeze to 1800 *Hold*
								Release Tb + BS Pressure
	1215							Job Complete
								75 sks of Standard CMT used *40 sks in Perfs*
								Thank You
								Gudeman, Preston, Kirby, + Wayne



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Sieb

Marilyn #1

3-19S-25W Ness,KS

Start Date: 2019.05.20 @ 12:15:00

End Date: 2019.05.20 @ 19:32:30

Job Ticket #: 65930 DST #: 1

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

Printed: 2019.05.22 @ 12:08:16

Palomino Petroleum
3-19S-25W Ness,KS
Marilyn #1
DST # 1
Miss.
2019.05.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St.
New ton KS 67114
ATTN: Ryan Sieb

3-19S-25W Ness,KS

Marilyn #1

Job Ticket: 65930

DST#: 1

Test Start: 2019.05.20 @ 12:15:00

GENERAL INFORMATION:

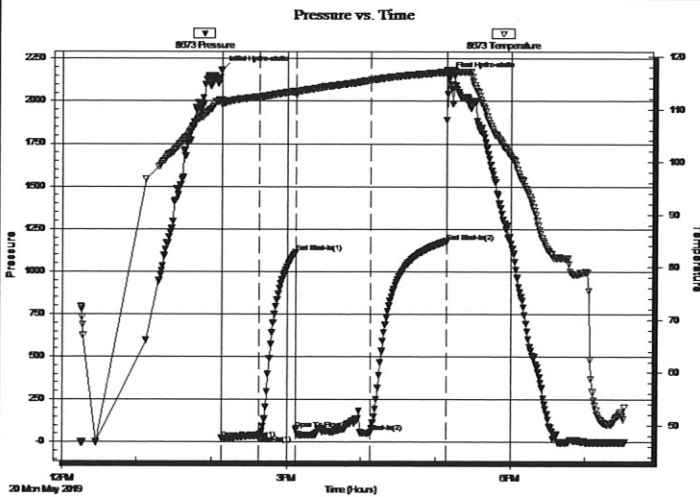
Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:07:30
Time Test Ended: 19:32:30
Interval: **4341.00 ft (KB) To 4433.00 ft (KB) (TVD)**
Total Depth: 4433.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: 77
Reference Elevations: 2419.00 ft (KB)
2414.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673

Outside

Press@RunDepth: 55.97 psig @ 4342.00 ft (KB)
Start Date: 2019.05.20 End Date: 2019.05.20
Start Time: 12:15:05 End Time: 19:32:29
Capacity: 8000.00 psig
Last Calib.: 2019.05.20
Time On Btm: 2019.05.20 @ 14:07:15
Time Off Btm: 2019.05.20 @ 17:10:30

TEST COMMENT: 30 - IFP - Surface blow built up to 3 1/4"
30 - ISI - No Return
60 - FFP - Surface blow built to 4 1/2"
60 - FSI - Very faint surface blow started 13 mins in and stayed at a faint blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.29	111.77	Initial Hydro-static
1	20.91	110.86	Open To Flow (1)
31	38.25	112.34	Shut-In(1)
60	1109.73	113.41	End Shut-In(1)
60	73.06	112.76	Open To Flow (2)
121	55.97	115.53	Shut-In(2)
182	1176.86	117.06	End Shut-In(2)
184	2150.39	117.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Free Oil - 100%o	0.12
60.00	OCM - 35%o - 65%m	0.30

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St.
New ton KS 67114
ATTN: Ryan Sieb

3-19S-25W Ness,KS

Marilyn #1

Job Ticket: 65930

DST#: 1

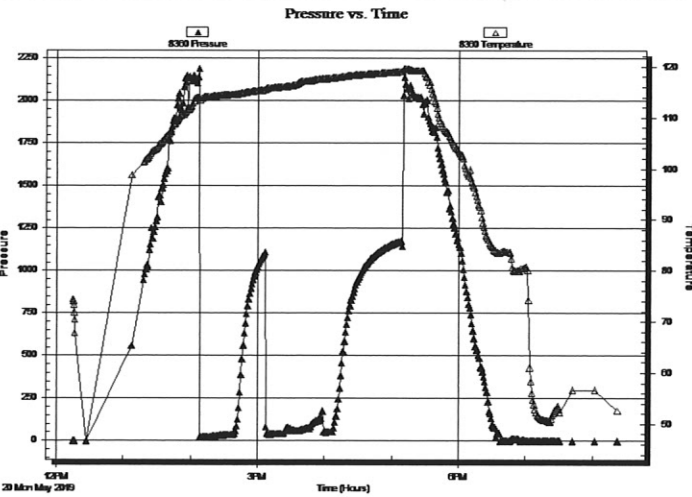
Test Start: 2019.05.20 @ 12:15:00

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 14:07:30
Time Test Ended: 19:32:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: 77
Interval: **4341.00 ft (KB) To 4433.00 ft (KB) (TVD)**
Total Depth: **4433.00 ft (KB) (TVD)**
Reference Elevations: **2419.00 ft (KB)**
2414.00 ft (CF)
Hole Diameter: **7.88 inches**Hole Condition: **Fair**
KB to GR/CF: **5.00 ft**

Serial #: 8360 Inside
Press@RunDepth: psig @ 4342.00 ft (KB)
Capacity: 8000.00 psig
Start Date: 2019.05.20 End Date: 2019.05.20 Last Calib.: 2019.05.20
Start Time: 12:15:05 End Time: 20:36:37 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built up to 3 1/4"
30 - ISI - No Return
60 - FFP - Surface blow built to 4 1/2"
60 - FSI - Very faint surface blow started 13 mins in and stayed at a faint blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
25.00	Free Oil - 100%o	0.12
60.00	OCM - 35%o - 65%m	0.30

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum
4924 SE 84th St.
New ton KS 67114
ATTN: Ryan Sieb

3-19S-25W Ness,KS

Marilyn #1

Job Ticket: 65930

DST#: 1

Test Start: 2019.05.20 @ 12:15:00

Tool Information

Drill Pipe:	Length: 4203.21 ft	Diameter: 3.25 inches	Volume: 43.13 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.94 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 43.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.15 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4341.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4318.00	
Hydraulic tool	5.00			4323.00	
Jars	5.00			4328.00	
Safety Joint	3.00			4331.00	
Packer	5.00			4336.00	28.00 Bottom Of Top Packer
Packer	5.00			4341.00	
Stubb	1.00			4342.00	
Recorder	0.00	8360	Inside	4342.00	
Recorder	0.00	8673	Outside	4342.00	
Perforations	23.00			4365.00	
Change Over Sub	1.00			4366.00	
Drill Pipe	63.00			4429.00	
Change Over Sub	1.00			4430.00	
Bullnose	3.00			4433.00	92.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

3-19S-25W Ness, KS

4924 SE 84th St.
New ton KS 67114

Marilyn #1

Job Ticket: 65930

DST#: 1

ATTN: Ryan Sieb

Test Start: 2019.05.20 @ 12:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 7.18 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 37 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Free Oil - 100%o	0.123
60.00	OCM - 35%o - 65%m	0.295

Total Length: 85.00 ft Total Volume: 0.418 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

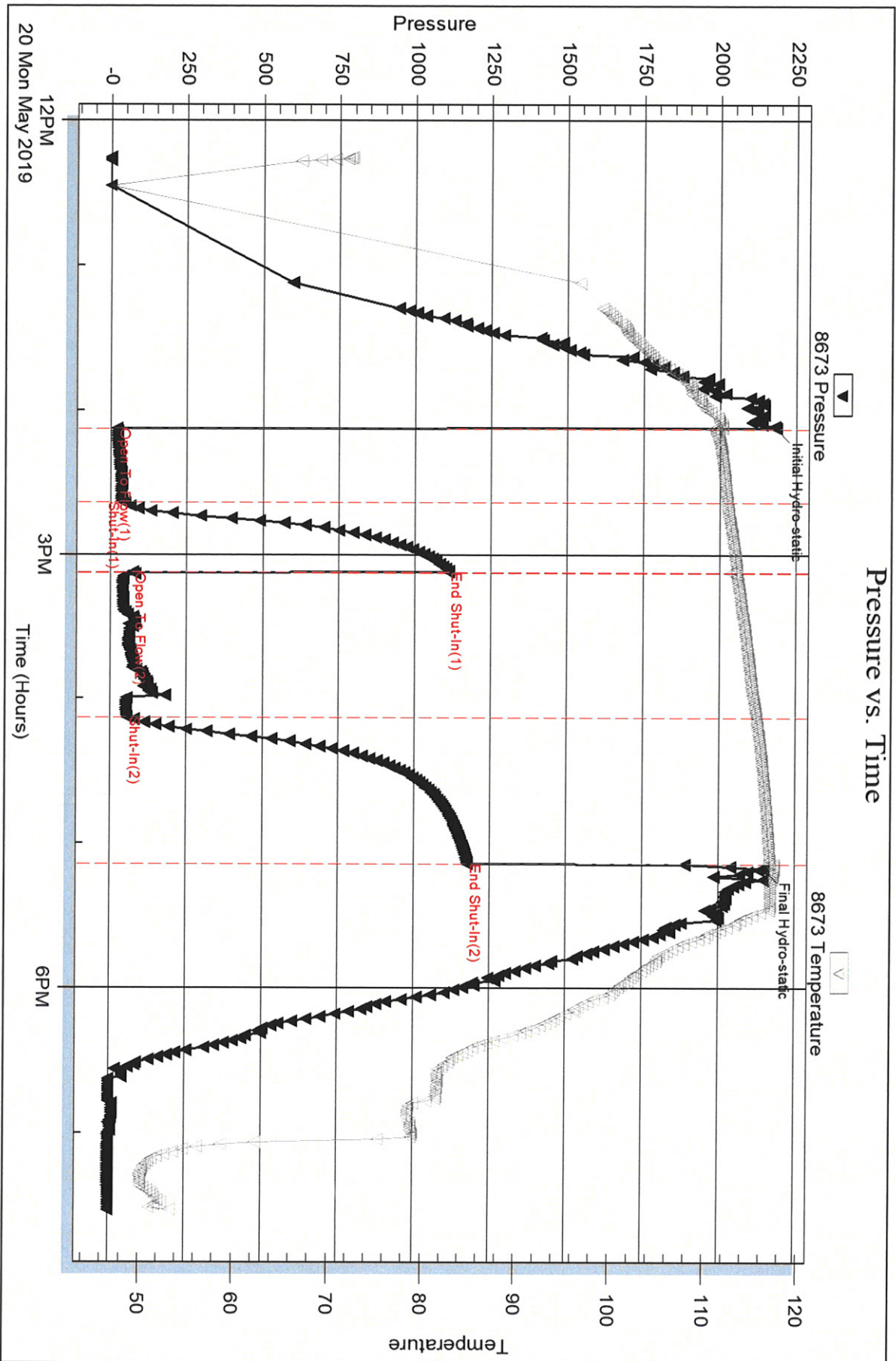
Recovery Comments:

Serial #: 8673

Outside Palomino Petroleum

Marilyn #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65930

Printed: 2019.05.22 @ 12:08:17

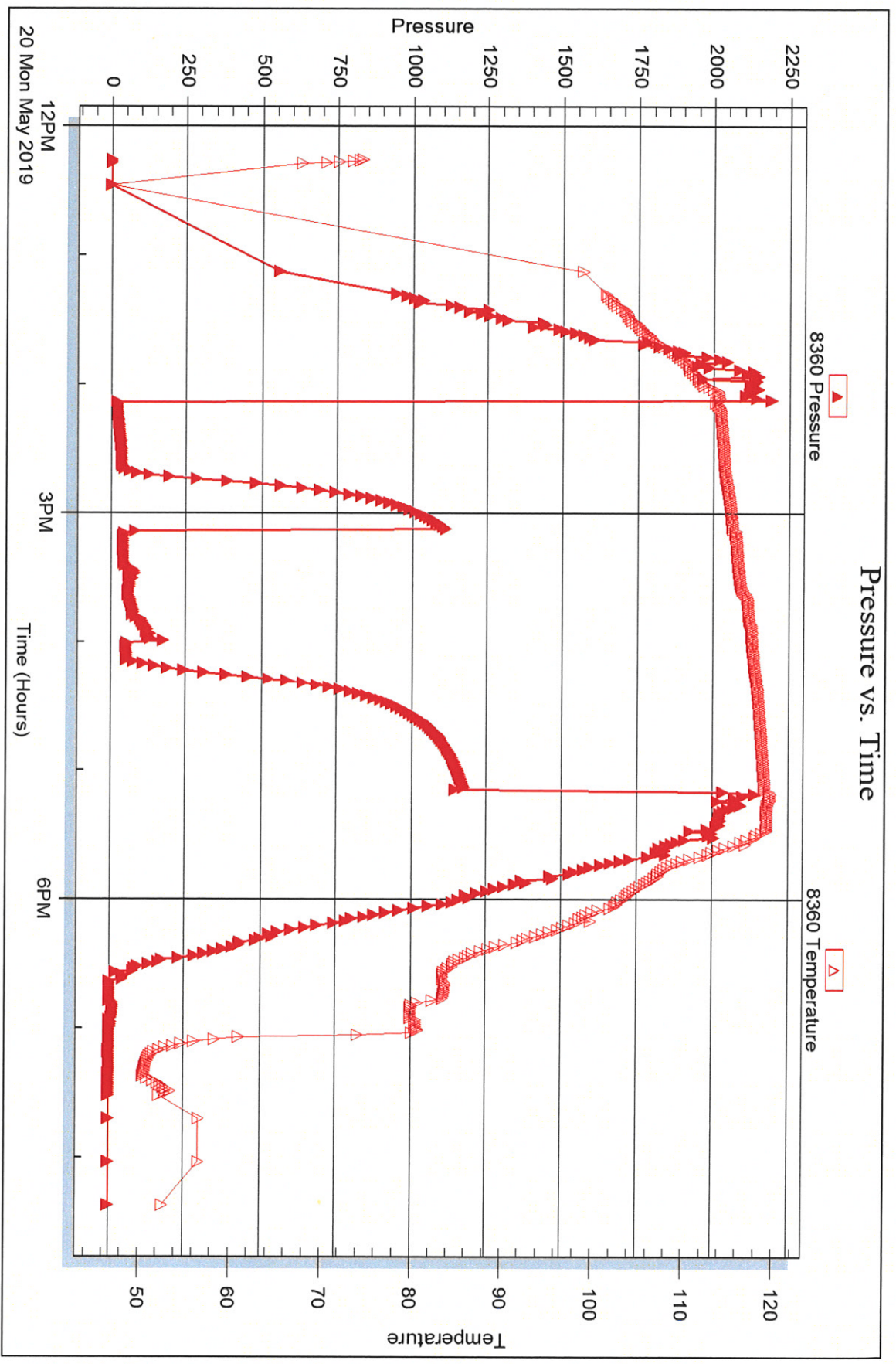
Serial #: 8360

Inside

Palomino Petroleum

Marilyn #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65930

Printed: 2019.05.22 @ 12:08:18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Sieb

Marilyn #1

3-19S-25W Ness,KS

Start Date: 2019.05.21 @ 00:54:00

End Date: 2019.05.21 @ 08:08:30

Job Ticket #: 65931 DST #: 2

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

Printed: 2019.05.22 @ 12:06:17

Palomino Petroleum
3-19S-25W Ness,KS
Marilyn #1
DST # 2
Miss.
2019.05.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St.
New ton KS 67114
ATTN: Ryan Sieb

3-19S-25W Ness, KS

Marilyn #1

Job Ticket: 65931

DST#: 2

Test Start: 2019.05.21 @ 00:54:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:57:30

Time Test Ended: 08:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: **4341.00 ft (KB) To 4440.00 ft (KB) (TVD)**

Total Depth: 4440.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2419.00 ft (KB)

2414.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8673

Outside

Press@RunDepth: 150.64 psig @ 4342.00 ft (KB)

Start Date: 2019.05.21

End Date:

2019.05.21

Start Time: 00:54:05

End Time:

08:08:29

Capacity: 8000.00 psig

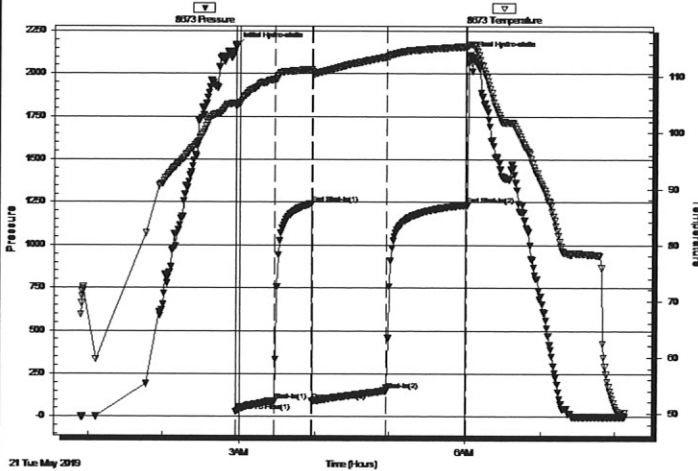
Last Calib.: 2019.05.21

Time On Btm: 2019.05.21 @ 02:57:00

Time Off Btm: 2019.05.21 @ 06:03:30

TEST COMMENT: 30 - IFP - Surface blow built to bottom of the bucket in 28 mins.
30 - ISI - No Return
60 - FFP - Surface blow built to bottom of the bucket in 23 mins.
60 - FSI - Weak return started 10 mins. in and built up to 1/4"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2158.03	105.15	Initial Hydro-static
1	30.31	104.68	Open To Flow (1)
31	89.18	109.42	Shut-In(1)
60	1242.24	111.29	End Shut-In(1)
61	92.31	110.83	Open To Flow (2)
121	150.64	113.49	Shut-In(2)
185	1235.10	115.36	End Shut-In(2)
187	2110.01	115.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Free Oil - 100%o	0.65
186.00	OCM - 50%o - 50%m	1.91

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St.
New ton KS 67114
ATTN: Ryan Sieb

3-19S-25W Ness, KS

Marilyn #1

Job Ticket: 65931

DST#: 2

Test Start: 2019.05.21 @ 00:54:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:57:30

Time Test Ended: 08:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: **4341.00 ft (KB) To 4440.00 ft (KB) (TVD)**

Total Depth: 4440.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2419.00 ft (KB)

2414.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: psig @ 4342.00 ft (KB)

Start Date: 2019.05.21

End Date:

2019.05.21

Capacity:

8000.00 psig

Start Time:

00:54:05

End Time:

08:08:29

Last Calib.:

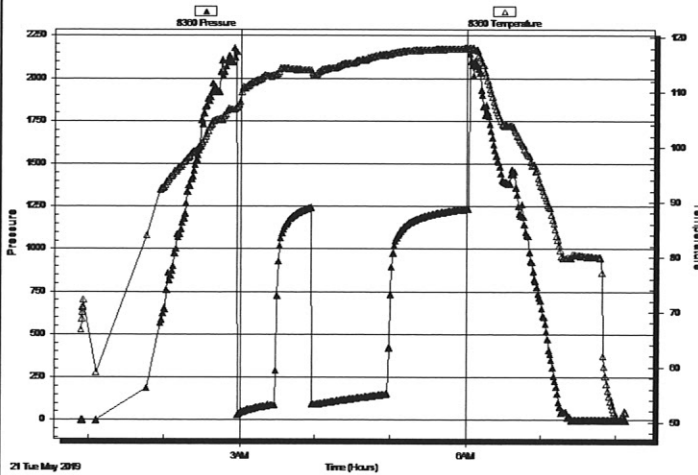
2019.05.21

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built to bottom of the bucket in 28 mins.
30 - ISI - No Return
60 - FFP - Surface blow built to bottom of the bucket in 23 mins.
60 - FSI - Weak return started 10 mins. in and built up to 1/4"

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Free Oil - 100%o	0.65
186.00	OCM - 50%o - 50%m	1.91

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

3-19S-25W Ness, KS

4924 SE 84th St.
New ton KS 67114

Marilyn #1

Job Ticket: 65931

DST#: 2

ATTN: Ryan Sieb

Test Start: 2019.05.21 @ 00:54:00

Tool Information

Drill Pipe:	Length: 4203.26 ft	Diameter: 3.25 inches	Volume: 43.13 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.94 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 43.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.20 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4341.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	99.00 ft			
Tool Length:	127.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4318.00	
Hydraulic tool	5.00			4323.00	
Jars	5.00			4328.00	
Safety Joint	3.00			4331.00	
Packer	5.00			4336.00	28.00 Bottom Of Top Packer
Packer	5.00			4341.00	
Stubb	1.00			4342.00	
Recorder	0.00	8360	Inside	4342.00	
Recorder	0.00	8673	Outside	4342.00	
Perforations	30.00			4372.00	
Change Over Sub	1.00			4373.00	
Drill Pipe	63.00			4436.00	
Change Over Sub	1.00			4437.00	
Bullnose	3.00			4440.00	99.00 Bottom Packers & Anchor

Total Tool Length: 127.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum
4924 SE 84th St.
New ton KS 67114
ATTN: Ryan Sieb

3-19S-25W Ness, KS
Marilyn #1
Job Ticket: 65931 **DST#: 2**
Test Start: 2019.05.21 @ 00:54:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Free Oil - 100%o	0.652
186.00	OCM - 50%o - 50%m	1.908

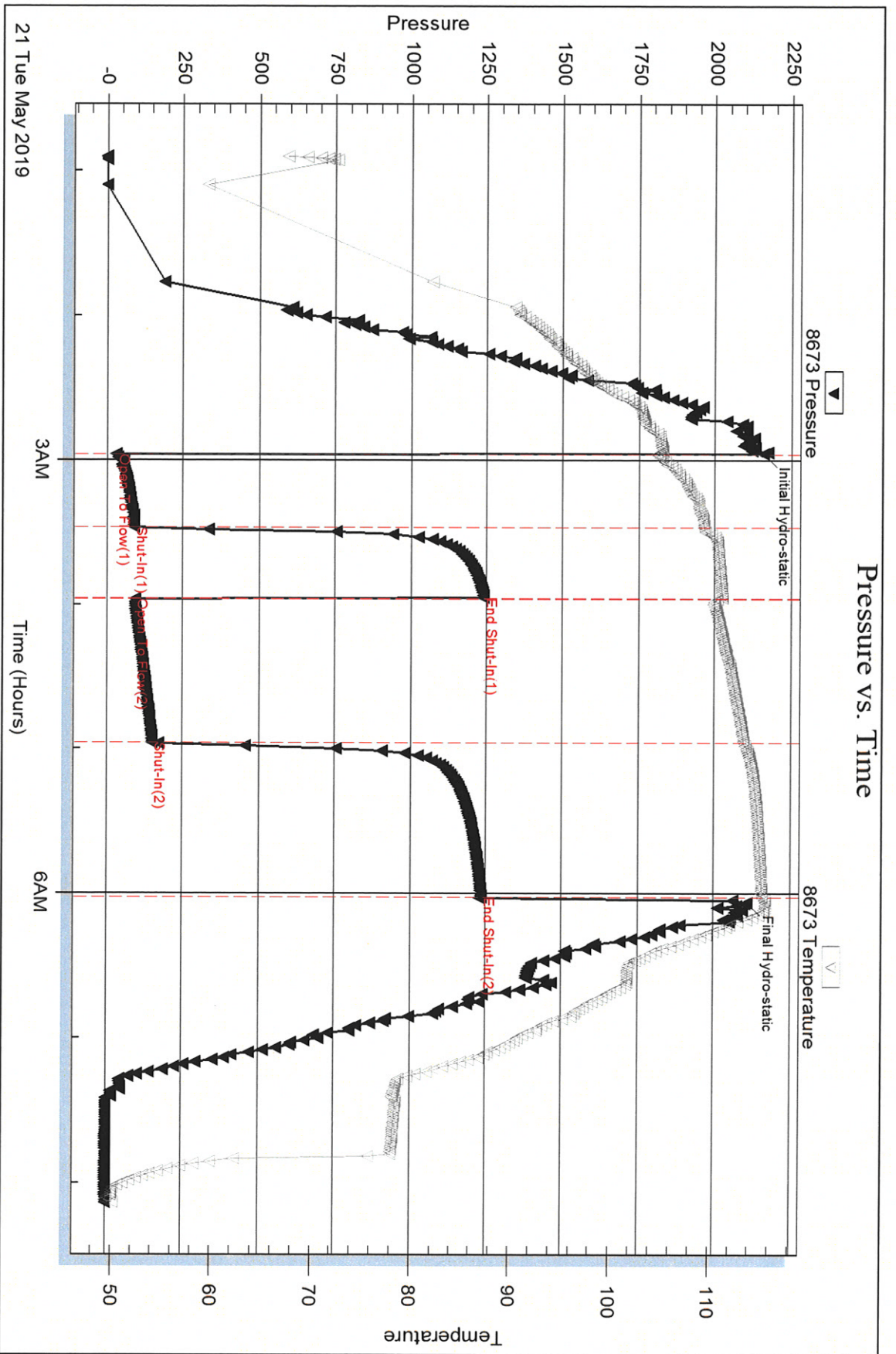
Total Length: 311.00 ft Total Volume: 2.560 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 37 @ 60 - Gravity

Serial #: 8673

Outside Palomino Petroleum

Marilyn #1

DST Test Number: 2



21 Tue May 2019

Trilobite Testing, Inc

Ref. No: 65931

Printed: 2019.05.22 @ 12:06:18

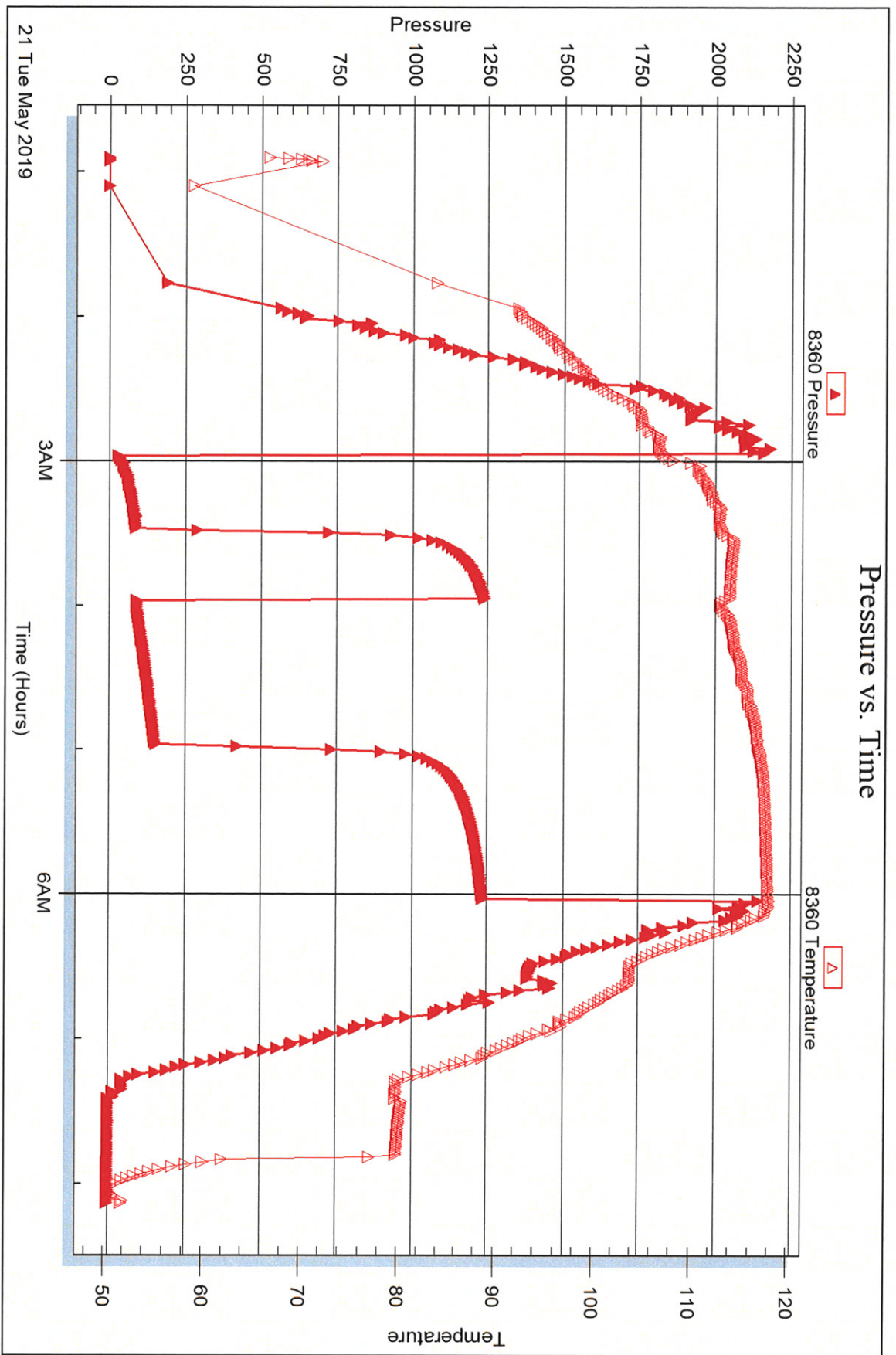
Serial #: 8360

Inside

Palomino Petroleum

Marilyn #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65931

Printed: 2019.05.22 @ 12:06:18



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Sieb

Marilyn #1

3-19S-25W Ness,KS

Start Date: 2019.05.21 @ 23:40:00

End Date: 2019.05.22 @ 06:22:30

Job Ticket #: 65932 DST #: 3

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

Printed: 2019.05.22 @ 12:05:32

Palomino Petroleum 3-19S-25W Ness,KS Marilyn #1 DST # 3 Miss. 2019.05.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St.
New ton KS 67114
ATTN: Ryan Sieb

3-19S-25W Ness, KS
Marilyn #1
Job Ticket: 65932 **DST#: 3**
Test Start: 2019.05.21 @ 23:40:00

GENERAL INFORMATION:

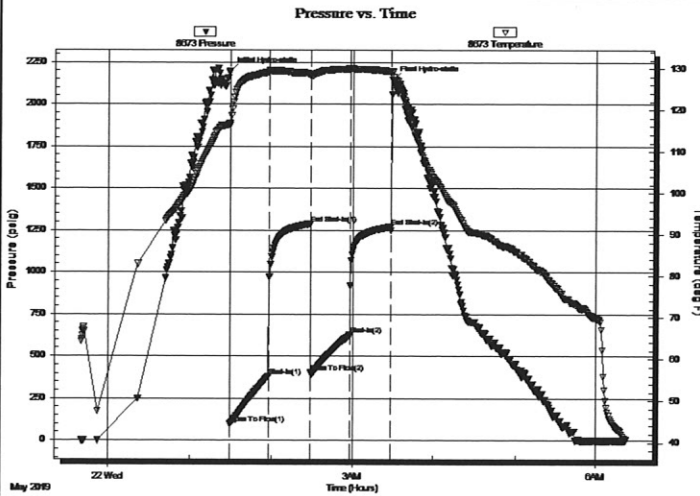
Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:29:30
Time Test Ended: 06:22:30
Interval: **4439.00 ft (KB) To 4460.00 ft (KB) (TVD)**
Total Depth: 4561.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Initial)
Tester: Royal Fisher
Unit No: 77
Reference Elevations: 2419.00 ft (KB)
2414.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673

Inside

Press@RunDepth: 625.05 psig @ 4440.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.05.21 End Date: 2019.05.22 Last Calib.: 2019.05.22
Start Time: 23:40:05 End Time: 06:22:29 Time On Btm: 2019.05.22 @ 01:29:00
Time Off Btm: 2019.05.22 @ 03:29:45

TEST COMMENT: 30 - IFP - Surface blow built to B.o.B in 5 mins.
30 - ISI - Return started 5 mins in and built up to 1/2"
30 - FFP - Surface blow built to B.o.B in 5 mins
30 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.45	116.85	Initial Hydro-static
1	98.85	116.28	Open To Flow (1)
29	380.93	129.17	Shut-In(1)
60	1288.54	128.75	End Shut-In(1)
60	402.24	128.23	Open To Flow (2)
89	625.05	129.93	Shut-In(2)
120	1269.82	129.32	End Shut-In(2)
121	2143.27	129.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
567.00	OSMW oil spots 5% m 95% w	5.19
756.00	GOCMW - 35%g - 35%o - 5%m - 25%w	7.76
68.00	Oil 100% o	0.70

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: Ryan Sieb

3-19S-25W Ness, KS
Marilyn #1
 Job Ticket: 65932 **DST#: 3**
 Test Start: 2019.05.21 @ 23:40:00

GENERAL INFORMATION:

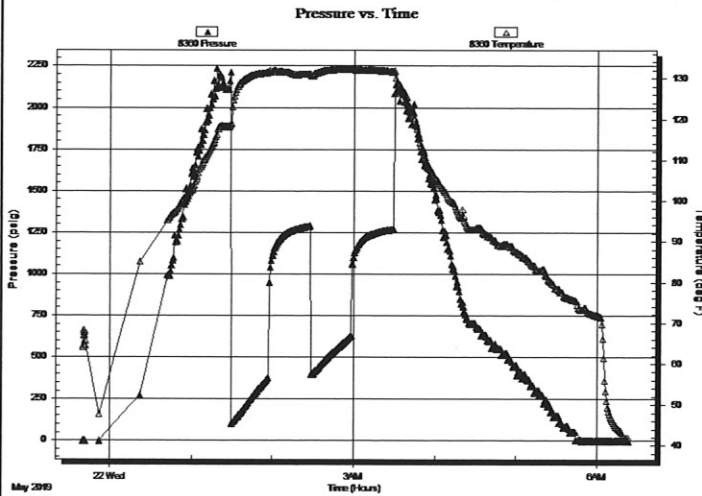
Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:29:30
 Time Test Ended: 06:22:30
 Interval: **4439.00 ft (KB) To 4460.00 ft (KB) (TVD)**
 Total Depth: 4561.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Royal Fisher
 Unit No: 77
 Reference Elevations: 2419.00 ft (KB)
 2414.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8360

Outside

Press@RunDepth: psig @ 4440.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.21 End Date: 2019.05.22 Last Calib.: 2019.05.22
 Start Time: 23:40:05 End Time: 06:22:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built to B.o.B in 5 mins.
 30 - ISI - Return started 5 mins in and built up to 1/2"
 30 - FFP - Surface blow built to B.o.B in 5 mins
 30 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
567.00	OSMW oil spots 5% m 95% w	5.19
756.00	GOCMW - 35%g - 35%o - 5%m - 25%w	7.76
68.00	Oil 100% o	0.70

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: Ryan Sieb

3-19S-25W Ness, KS
Marilyn #1
 Job Ticket: 65932 **DST#: 3**
 Test Start: 2019.05.21 @ 23:40:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:29:30

Time Test Ended: 06:22:30

Test Type: Conventional Straddle (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: **4439.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Total Depth: 4561.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2419.00 ft (KB)

2414.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8678 Inside

Press@RunDepth: psig @ 4468.00 ft (KB)

Start Date: 2019.05.21

End Date:

2019.05.22

Start Time: 23:40:05

End Time:

06:22:29

Capacity: 8000.00 psig

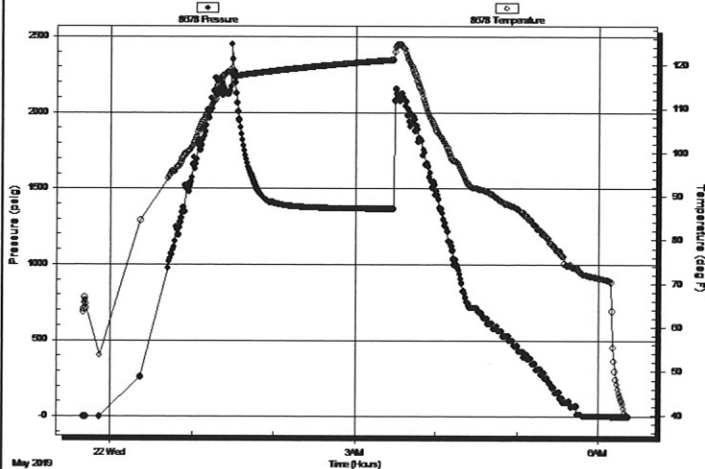
Last Calib.: 2019.05.22

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built to B.o.B in 5 mins.
 30 - ISI - Return started 5 mins in and built up to 1/2"
 30 - FFP - Surface blow built to B.o.B in 5 mins
 30 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
567.00	OSMW oil spots 5% m 95% w	5.19
756.00	GOCMW - 35%g - 35%o - 5%m - 25%w	7.76
68.00	Oil 100% o	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum
4924 SE 84th St.
New ton KS 67114

ATTN: Ryan Sieb

3-19S-25W Ness,KS

Marilyn #1
Job Ticket: 65932 **DST#: 3**
Test Start: 2019.05.21 @ 23:40:00

Tool Information

Drill Pipe:	Length: 4333.46 ft	Diameter: 3.25 inches	Volume: 44.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.94 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 45.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.40 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4439.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4566.00 ft			
Interval between Packers:	127.00 ft			
Tool Length:	147.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

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

Shut In Tool	5.00			4424.00	
Hydraulic tool	5.00			4429.00	
Packer	5.00		Inside	4434.00	20.00 Bottom Of Top Packer
Packer	5.00			4439.00	
Stubb	1.00			4440.00	
Recorder	0.00	8673	Inside	4440.00	
Recorder	0.00	8360	Outside	4440.00	
Perforations	16.00			4456.00	
Blank Off Sub	1.00			4457.00	
Stubb	3.00		Outside	4460.00	
Packer - Shale	5.00		Outside	4465.00	
Stubb	1.00			4466.00	
Perforations	1.00			4467.00	
Change Over Sub	1.00			4468.00	
Recorder	0.00	8678	Inside	4468.00	
Drill Pipe	94.00		Below	4562.00	
Change Over Sub	1.00			4563.00	
Bullnose	3.00			4566.00	127.00 Bottom Packers & Anchor

Total Tool Length: 147.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

3-19S-25W Ness,KS

4924 SE 84th St.
New ton KS 67114

Marilyn #1

Job Ticket: 65932

DST#: 3

ATTN: Ryan Sieb

Test Start: 2019.05.21 @ 23:40:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 35 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 15000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
567.00	OSMV oil spots 5% m 95% w	5.188
756.00	GOCMV - 35%g - 35%o - 5%m - 25%w	7.757
68.00	Oil 100% o	0.698

Total Length: 1391.00 ft Total Volume: 13.643 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity - 35 @ 60 deg.

Salinity - .740 @ 40 deg.

Serial #: 8673

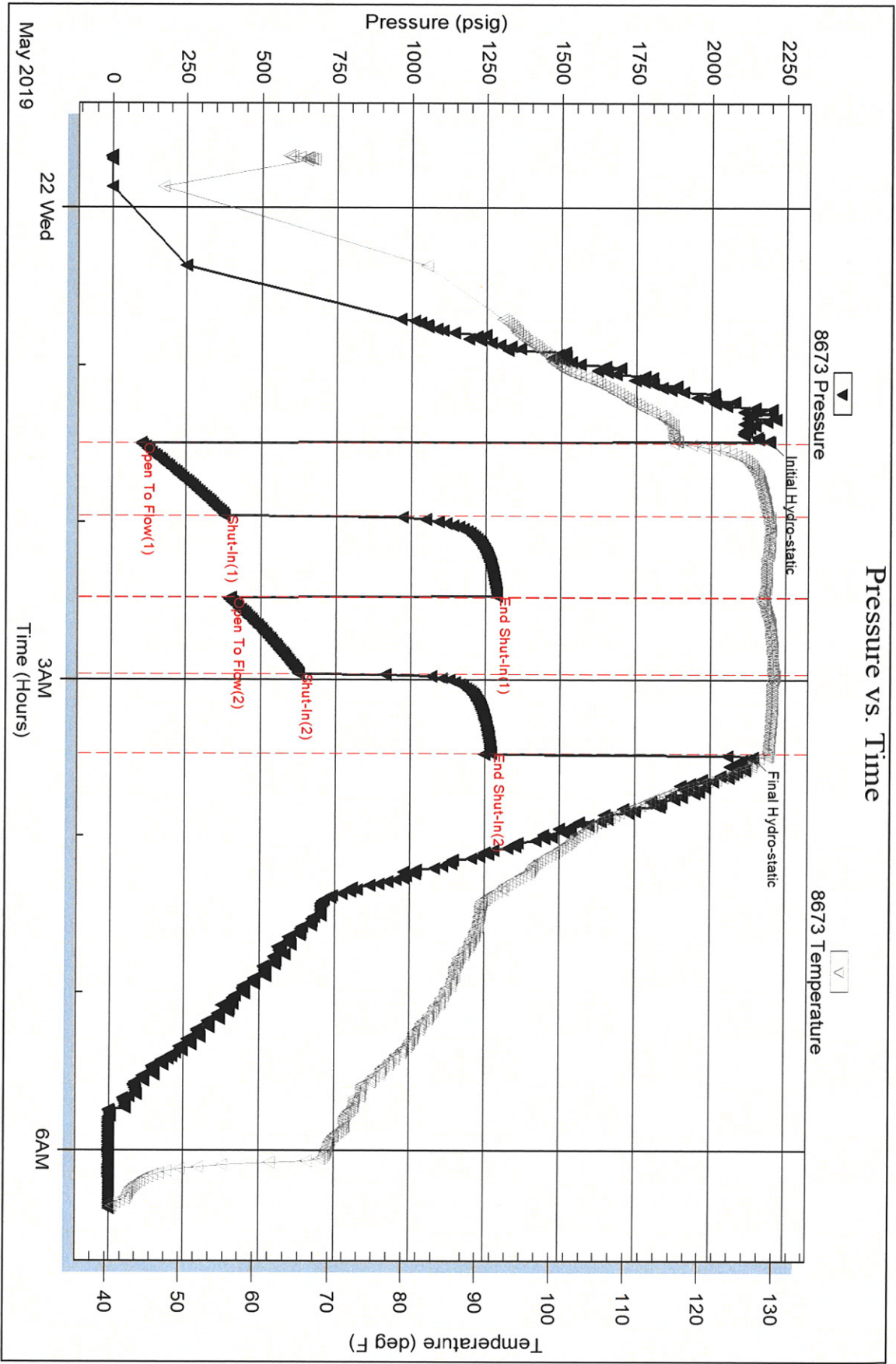
Inside

Palomiro Petroleum

Marilyn #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 65932

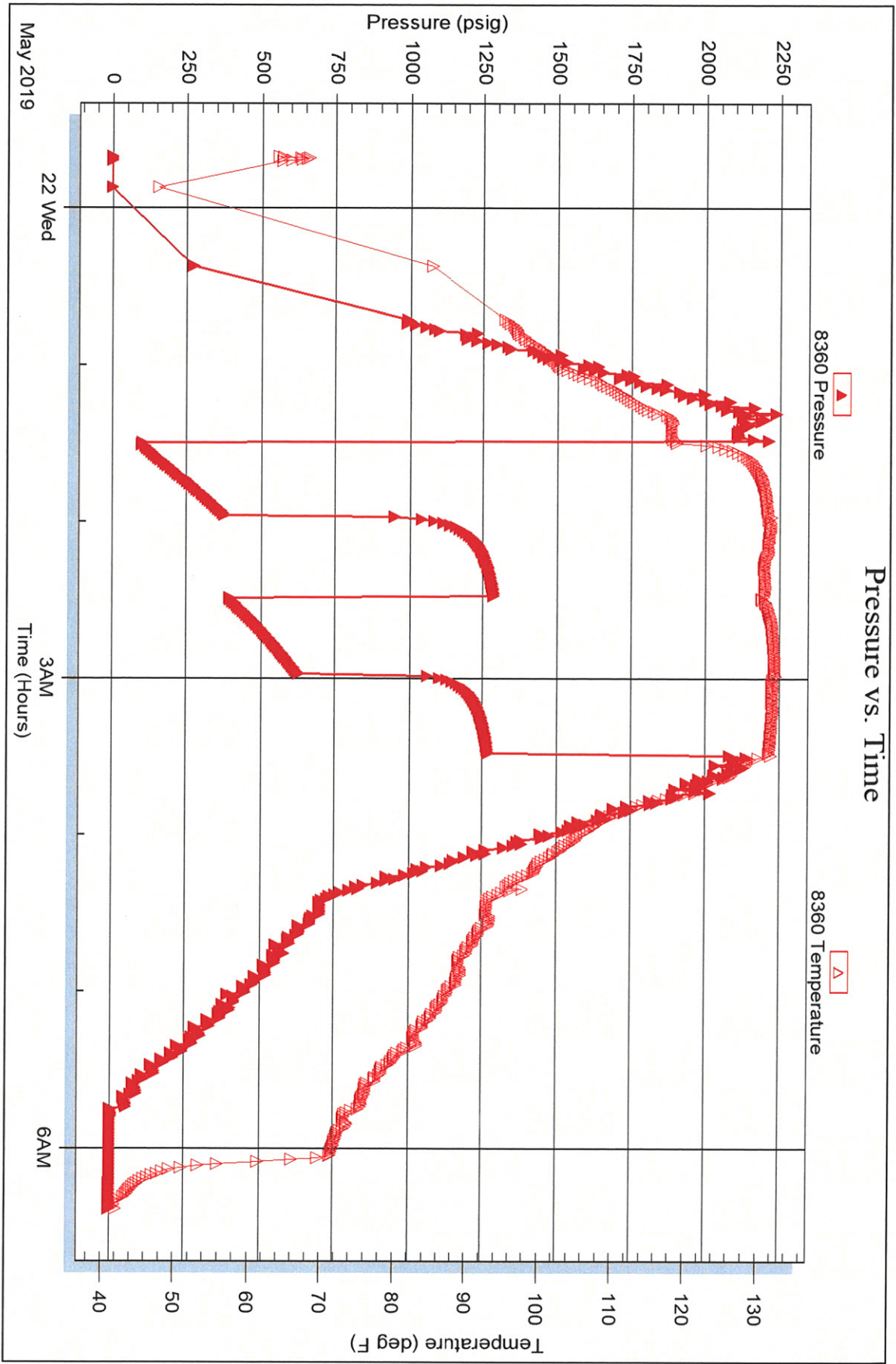
Printed: 2019.05.22 @ 12:05:33

Serial #: 8360

Outside Palomino Petroleum

Marilyn #1

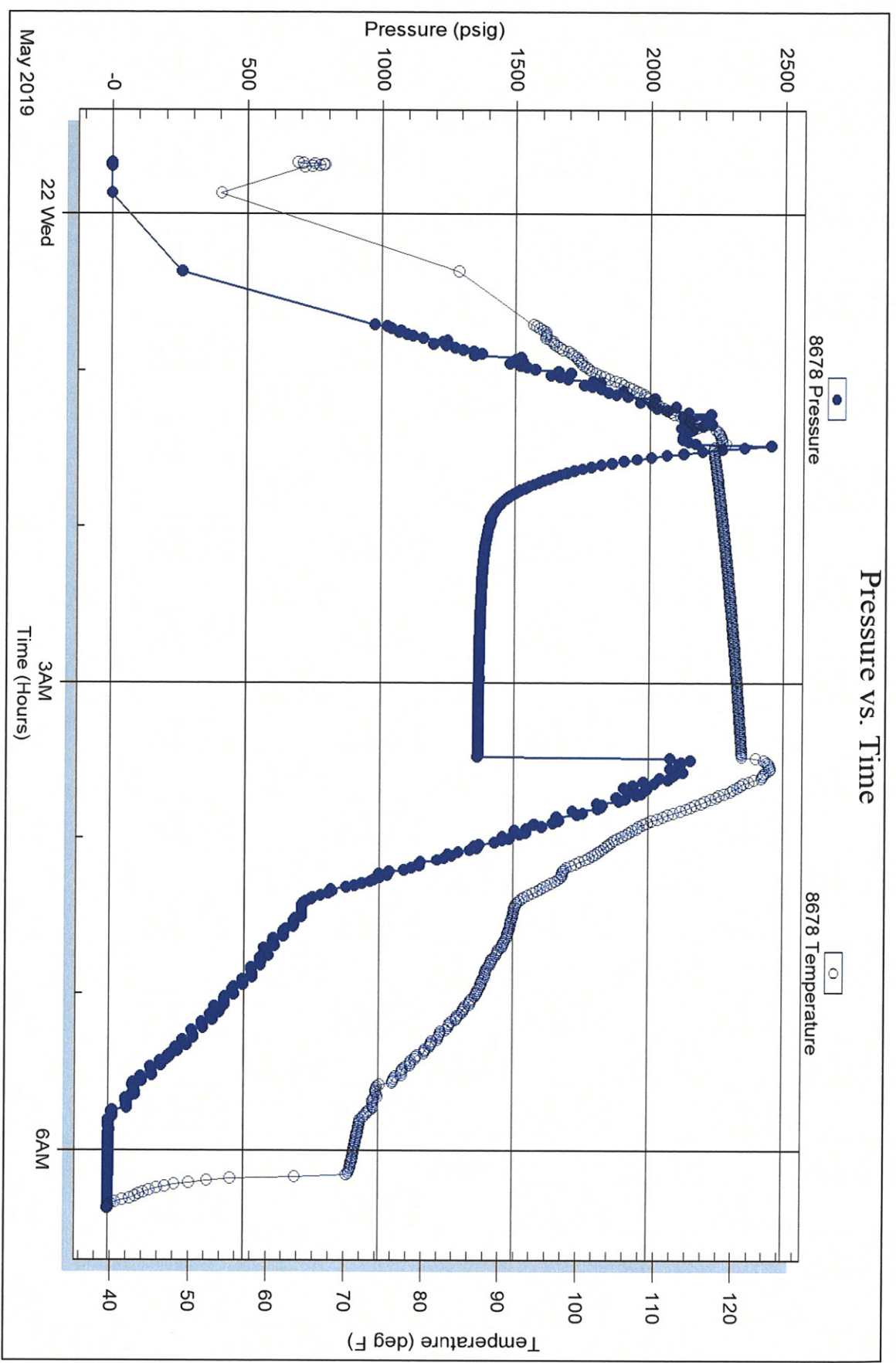
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 65932

Printed: 2019.05.22 @ 12:05:34





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65930

NO.

Well Name & No. Marilyn #1 Test No. 1 Date 5-20-19
 Company Palomino Petroleum Elevation 2419 KB 2414 GL
 Address 4924 SE 84th St Newton ks 67114
 Co. Rep / Geo. Ryan Sieb Rig WW#8
 Location: Sec. 3 Twp 19S Rge. 25W Co. Ness State ks

Interval Tested 4341'-4433' Zone Tested Miss.
 Anchor Length 92' Drill Pipe Run 4203.21' Mud Wt. 9.45
 Top Packer Depth ~~4330'~~ 4336' Drill Collars Run 117.94' Vis 57
 Bottom Packer Depth ~~4033'~~ 4341' Wt. Pipe Run 0 WL 7.2
 Total Depth 4433 Chlorides 5,000 ppm System LCM 1 1/2#

Blow Description IFP-Surface blow built up to 3 1/4"
ISI-No Return
FFP-Surface blow built up to 4 1/2"
EFT-Very faint return started 13 mins and kept stayed faint.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25'</u>	<u>Free Oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>60'</u>	<u>OCM</u>	<u>35</u>	<u>0</u>	<u>65</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 85' BHT 117°F Gravity 37 @ 60° API RW @ ° F Chlorides ppm

- (A) Initial Hydrostatic 2184
- (B) First Initial Flow 21
- (C) First Final Flow 38
- (D) Initial Shut-In 1110
- (E) Second Initial Flow 73
- (F) Second Final Flow 56
- (G) Final Shut-In 1177
- (H) Final Hydrostatic 2150

- Test 1300
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 148 R/T 148
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1773

- T-On Location 11:00am
- T-Started 12:15pm
- T-Open 2:07pm
- T-Pulled 5:07pm
- T-Out 7:32pm
- Comments
- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies 0
- Sub Total 0
- Total 1773
- MP/DST Disc't

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60

Approved By _____ Our Representative Ryan Sieb

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 65931

NO.

Well Name & No. Marilyn #1 Test No. 2 Date 5-20-19
 Company Palomino Petroleum Elevation 2419 KB 2414 GL
 Address 4924 SE 81st St. Newton Ks 67114
 Co. Rep / Geo. Ryan Sieb Rig WW #8
 Location: Sec. 3 Twp 19S Rge. 25W Co. Ness State Ks

Interval Tested 4341'-4440' Zone Tested MISS.
 Anchor Length 99' Drill Pipe Run 4203.26' Mud Wt. 9.45
 Top Packer Depth 4336' Drill Collars Run 117.94' Vis 57
 Bottom Packer Depth 4341' Wt. Pipe Run 0 WL 7.2
 Total Depth 4440' Chlorides 5,000 ppm System LCM 1 1/2 #

Blow Description FFP-surface blow built to bottom of the bucket in 28 mins.
ISI-No Return
FFP-surface blow built to B.O.B in 23 mins.
FST-Weak return started 10 mins in and built to 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>125'</u>	<u>Free Oil</u>	<u>100</u>			
<u>186'</u>	<u>OCM</u>	<u>50</u>		<u>50</u>	

Rec Total 311' BHT 115°F Gravity 37@100° API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2158 Test 1300 T-On Location 11:00am 5-20-19
 (B) First Initial Flow 30 Jars 250 T-Started 12:54am 5-21-19
 (C) First Final Flow 89 Safety Joint 75 T-Open 2:57am
 (D) Initial Shut-In 1242 Circ Sub T-Pulled 5:57am
 (E) Second Initial Flow 92 Hourly Standby 5 1/2 hrs T-Out 8:08am
 (F) Second Final Flow 151 Mileage 148 R/T 148 Comments Stayed on location
 (G) Final Shut-In 1235 Sampler only drilled 7' & tested
 (H) Final Hydrostatic 2110 Straddle again

Initial Open 30 Shale Packer Ruined Shale Packer
 Initial Shut-In 30 Extra Packer Ruined Packer
 Final Flow 60 Extra Recorder Extra Copies
 Final Shut-In 60 Day Standby Sub Total 0
 Sub Total 1773 Accessibility Total 1773
 Sub Total 1773 MP/DST Disc't

Approved By _____ Our Representative Ryan Sieb

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65932

NO.

Well Name & No. Marilyn #1 Test No. 3 Date 5-21-19
 Company Palomina Petroleum Elevation 2419 KB 2414 GL
 Address 4924 SE 84th St. Newton Ks 67114
 Co. Rep / Geo. Ryan Sieb Rig WW#8
 Location: Sec. 3 Twp 19S Rge. 25W Co. Ness State Ks

Interval Tested 4439' - 4460' Zone Tested Miss.
 Anchor Length 21' Drill Pipe Run 4333.46 Mud Wt. 9.4
 Top Packer Depth 4434' Drill Collars Run 117.94 Vis 46
 Bottom Packer Depth 4439' Wt. Pipe Run 0 WL 8.8
 Total Depth 4561' Chlorides 3300 ppm System LCM 1 1/2 #

Blow Description TFP - Surface blow built to B.O.B in 5 mins.
TSI - Weath Return started 5 mins in and built up to 1/2"
FFP - Surface blow built to B.O.B in 5 mins.
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>68'</u>	<u>Free Oil</u>	<u>100</u>			
<u>756'</u>	<u>GOCMW</u>	<u>35</u>	<u>35</u>	<u>25</u>	<u>5</u>
<u>567'</u>	<u>OSMW</u>	<u>Spots</u>	<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1391' BHT 129°F Gravity 35@10 API RW 740@40 °F Chlorides 15000 ppm

(A) Initial Hydrostatic <u>2195</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>8:30pm</u>
(B) First Initial Flow <u>99</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:40pm</u>
(C) First Final Flow <u>381</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:27am</u>
(D) Initial Shut-In <u>1289</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>3:27am</u>
(E) Second Initial Flow <u>402</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:23am</u>
(F) Second Final Flow <u>625</u>	<input checked="" type="checkbox"/> Mileage <u>148 R/T</u> 148	Comments <u>boxed tool after test.</u>
(G) Final Shut-In <u>1270</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> EM Tool
(H) Final Hydrostatic <u>2143</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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 checked="" type="checkbox"/> Extra Recorder <u>200</u>	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2823</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2823</u>	

Approved By _____ Our Representative _____
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Palomino Petroleum
Marilyn #2

LOCATION: 2114' FNL & 724' FUL
SEC. 3 T19S R19E P04 25W
COUNTY: Ness STATE: KS

Well Drilling Rig # 8
5/14/19 RTD
4540' RTD
3600' RTD
3600' RTD
3600' RTD
3500' RTD
15-135-2656

DEPTH	LOG	TIME	TEMP	SP. GR.	RESIST.
3767 (-1348)			122 (46.97)		
3809 (-1390)			374.9 (-1350)		
4128 (-1709)			3512 (-1393)		
4171 (-1752)			4132 (-1713)		
4242 (-1823)			4171 (-1752)		
4315 (-1896)			4244 (-1823)		
4341 (-1922)			4314 (-1893)		
4345 (-1926)			4345 (-1924)		
4414 (-1995)			4414 (-1995)		



2114'
5 1/2"
8 5/8" @
CND, OFC,
Micro, Sonic

LEGEND



SCALE 1" = 100'

TIME	Drilling time in minutes	DEPTH	Sample description	Remarks, log observations, etc.
		3600	log, comp. log, core log, dense, hard, no gas, 2, 1, 15	

3600

ls. congl. brn., fa. x lyp., dense hard., n. vis. ϕ , n. 15

- 10

- 20

- 30

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 40

50

- 60

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 70

- 80

- 90

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

3700

- 10

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 20

- 30

- 40

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

50

- 60

ls., At

Hebner 3769
(-1350)

- 70

sh., blk carb
ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 80

sh., gr. red

- 90

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

3800

Lansing 3812
(-1393)

- 10

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 20

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 30

- 40

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

50

- 60

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 70

Mud v @ 3677'
UL - 8.85
VIS - 52
UL - 8.0
CL - 2,700
LCM - 2#

N/S

- 30

ls. congl. - tan, fm x lg, densal
hard., n.v.s. ϕ , n/s

50

ls. congl. - brn, fm x lg,
dense/hard., n.v.s. ϕ , n/s

- 70

ls. congl. - lt. tan, v. fm x lg,
dense/hard., n.v.s. ϕ , n/s

- 90

ls. congl. - tan, v. fm x lg,
dense/hard., n.v.s. ϕ , n/s

3900

- 10

ls. congl. - tan, fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 20

ls. congl. - tan, fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 40

ls. congl. - tan, fm x lg, densal
hard., n.v.s. ϕ , n/s

- 60

ls. congl. - brn, fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 80

ls. congl. - tan, v. fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 90

ls. congl. - tan, fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

4000

- 10

ls. congl. - tan, v. fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 20

ls. congl. - tan, fm x lg, densal
hard., n.v.s. ϕ , n/s

50

- 40

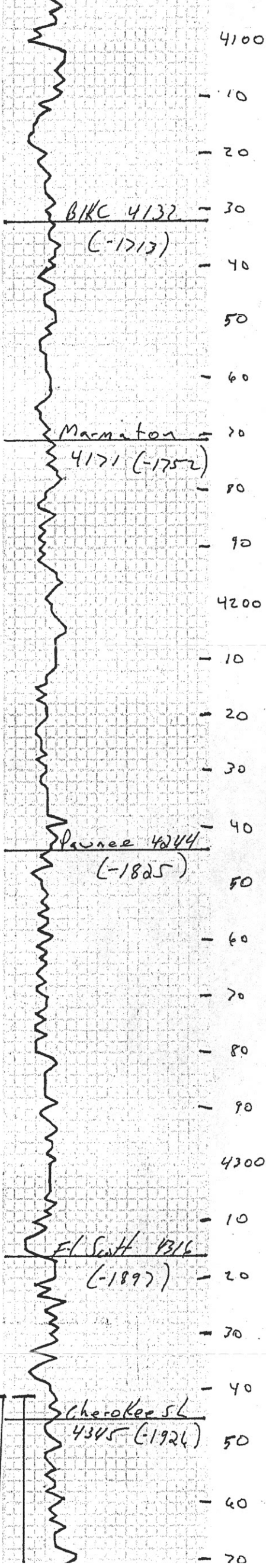
Sh., blk carb
ls. congl. - tan, v. fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 70

ls. congl. - tan, fm x lg, v. fm x lg,
dense/hard., n.v.s. ϕ , n/s

- 90

cl. blk carb



4100 Sh., blk Carb
 ls, crgy - tan, v. fine x h. p.
 dense hard, n. vis. p., n. ls

- 10

- 20 ls, crgy - light gray, v. fine x h. p.
 dense hard, n. vis. p., n. ls Mud ✓ @ 4115'

BIKE 4132 - 30 Sh., var. color
 (-1713)

- 40 ls, crgy - tan, v. fine x h. p.
 dense hard, n. vis. p., n. ls
 Shy, gray - dark gray

50

- 60 ls, crgy - light gray, v. fine x h. p.
 dense hard, n. vis. p., n. ls

Marmaton - 70 ls, crgy - tan, v. fine x h. p.
 4171 (-1752) dense hard, n. vis. p., n. ls

- 80

- 90 ls, crgy - tan, v. fine x h. p.
 dense hard, n. vis. p., n. ls
 prod., vis. p.

4200

- 10 ls, crgy - light gray, v. fine x h. p.
 dense hard, n. vis. p., n. ls
 odr., vis. p. (-2 pct)

- 20

- 30

- 40 Lawrence 4244 ls, crgy - light gray, v. fine x h. p.
 (-1825) dense hard, n. vis. p., n. ls

50 Sh., blk Carb

- 60 ls, tan - gray, v. fine x h. p.
 dense hard, n. vis. p., n. ls

- 70

- 80

- 90 ls, AA
 Shy, gray - dark gray.

4300

ls, AA

- 10

El Scott 4316 Sh., blk Carb
 (-1897)

- 20 ls, crgy - gray, v. fine x h. p.
 dense hard, n. vis. p., n. ls
 prod., vis. p., n. ls

- 30 ls, crgy - gray, v. fine x h. p.
 dense hard, n. vis. p., n. ls
 prod., vis. p., n. ls

- 40 ls, AA - light gray, v. fine x h. p.
 prod., vis. p., n. ls

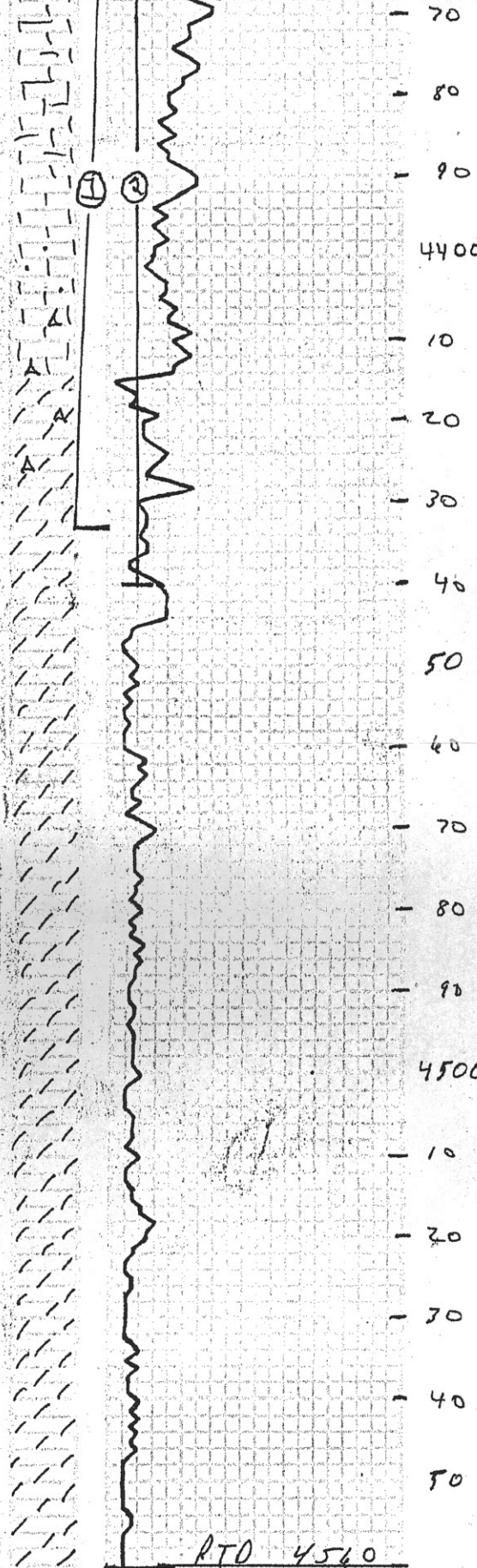
Cherokee SL Sh., blk Carb
 4345 (-1924)

50

- 60 ls, light gray, v. fine x h. p.
 dense hard, n. vis. p., n. ls
 prod., vis. p., n. ls

- 70 Sh., gray - blk
 ls, crgy - tan, v. fine x h. p.

Mud ✓ @ 4115'
 wt. - 9.4
 vis - 50
 ul - 8.0
 chl - 4.300
 LCM - 1 1/2 #



70 Dpl. comp. sp. in. x 4.0 y
 dense hard. p. u. i. p. p. o. d. c. i.
 vsr 70
 Sh. AA
 80 Ls. AA
 90
 4400
 Dpl. comp. sp. in. x 4.0 y
 dense hard. p. u. i. p. p. o. d. c. i.
 vsr 70
 10
 20 Dpl. comp. sp. in. x 4.0 y
 dense hard. p. u. i. p. p. o. d. c. i.
 vsr 70
 30 Dpl. comp. sp. in. x 4.0 y
 dense hard. p. u. i. p. p. o. d. c. i.
 vsr 70
 40
 50 Dpl. comp. sp. in. x 4.0 y
 dense hard. p. u. i. p. p. o. d. c. i.
 vsr 70
 60
 70
 80 Dpl. comp. sp. in. x 4.0 y
 dense hard. p. u. i. p. p. o. d. c. i.
 vsr 70
 90
 4500
 10
 20 Dpl. comp. sp. in. x 4.0 y
 dense hard. p. u. i. p. p. o. d. c. i.
 vsr 70
 30 Dpl. AA
 40
 50 Dpl. comp. sp. in. x 4.0 y
 dense hard. p. u. i. p. p. o. d. c. i.
 vsr 70

DST # 1 4341'-4433'
30-20-60-60
 Rec. 85' TF
 IF-3 1/4" ISI-Dend
 FF-4 1/2" FSI-Surface
 25' co (100700)
 60' ocm (35900, 65900)
 HP-2184#-2150#
 IFP-21#-38# FFP-73#-56#
 ISIP-1110# FSIIP-1177#

DST # 2 4341'-4440'
30-20-60-40
 Rec. 311' TF
 IF-0.0.0.28" FSI-lead
 FF-0.0.0.23" FSI-1/4"
 125' co (100700)
 186' ocm (50900, 50300)
 HP-2158#-2110#
 FFP-30#-44# FFP-92#-151#
 FSIIP-1242# FSIIP-1235#

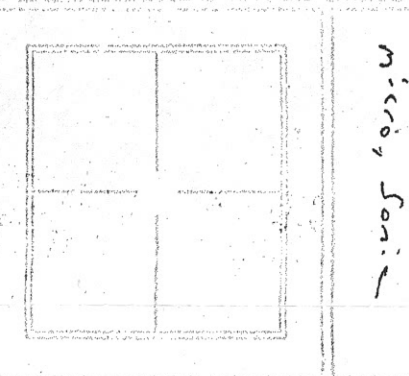
Straddle
DST # 3 4439'-4460'
30-30-30-30
 Rec. 1791' TF
 IF-0.0.0.5" FSI-1/4"
 FF-0.0.0.5" FSI-Dend
 68' co (100700)
 756' yocmu (3580, 35300, 25700, 700)
 567' ocm (95900, 57000)
 HP-2195#-2142#
 IFP-99#-381# FFP-402#-625#
 FSIIP-1289# FSIIP-1270#

Palomino Petroleum
Marilyn #2

LOCATION: 2114 FNL & 724' EUL
SEC: 3 T19S R01E 25W
COUNTY: Ness STATE: KS

Well Drilling Rig # 8
5/14/19 RTD
4540' RTD
3600' RTD
3600' RTD
3600' RTD
3600' RTD
3500' RTD
15-135-2656

TIME	DEPTH	TEMP	REMARKS
3767	(-1348)	1322	(4697)
3809	(-1390)	3749	(-1350)
4128	(-1209)	3812	(-1393)
4171	(-1252)	4132	(-1713)
4242	(-1823)	4171	(-1752)
4245	(-1823)	4244	(-1825)
4315	(-1934)	4314	(-1893)
4341	(-1922)	4345	(-1924)
4414	(-1995)	4414	(-1995)



LEGEND

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SCALE 1" = 100'

Depth	Drilling time in minutes	Temp	Sample description	Pressure, Oil & Gas, etc.
3600			ls, congl, sh., calc. ls., dense, hard, no gas, 2, 1, 15	

3600

ls. congl. brn., fa. x lyp., dense hard., n. vis. ϕ , n. 15

- 10

- 20

- 30

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 40

50

- 60

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 70

- 80

- 90

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

3700

- 10

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 20

- 30

- 40

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

50

- 60

ls., At

Hebner 3769

(-1350)

- 70

sh., blk carb

- 80

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

sh., gr. red

- 90

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

3800

Lansing 3812

(-1393)

- 10

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 20

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 30

- 40

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

50

- 60

ls. congl. brn., fa. x lyp., dense & brittle., n. vis. ϕ , n. 15

- 70

Mud v @ 3677'

UL - 8.85

V.S - 5.2

UL - 8.0

CL - 2,700

LCM - 2#

N/S

- 30

ls. congl. - tan, fm x lg, densal
hard., n.v.s. ϕ , n/s

50

ls. congl. - brn, fm x lg,
dense/hard., n.v.s. ϕ , n/s

- 70

ls. congl. - lt. tan, v. fm x lg,
dense/hard., n.v.s. ϕ , n/s

- 90

ls. congl. - tan, v. fm x lg,
dense/hard., n.v.s. ϕ , n/s

3900

- 10

ls. congl. - tan, fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 20

ls. congl. - tan, fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 40

ls. congl. - tan, fm x lg, densal
hard., n.v.s. ϕ , n/s

- 60

ls. congl. - brn, fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 80

ls. congl. - tan, v. fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 90

ls. congl. - tan, fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

4000

- 10

ls. congl. - tan, v. fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

- 20

ls. congl. - tan, fm x lg, densal
hard., n.v.s. ϕ , n/s

50

- 40

Sh., blk carb

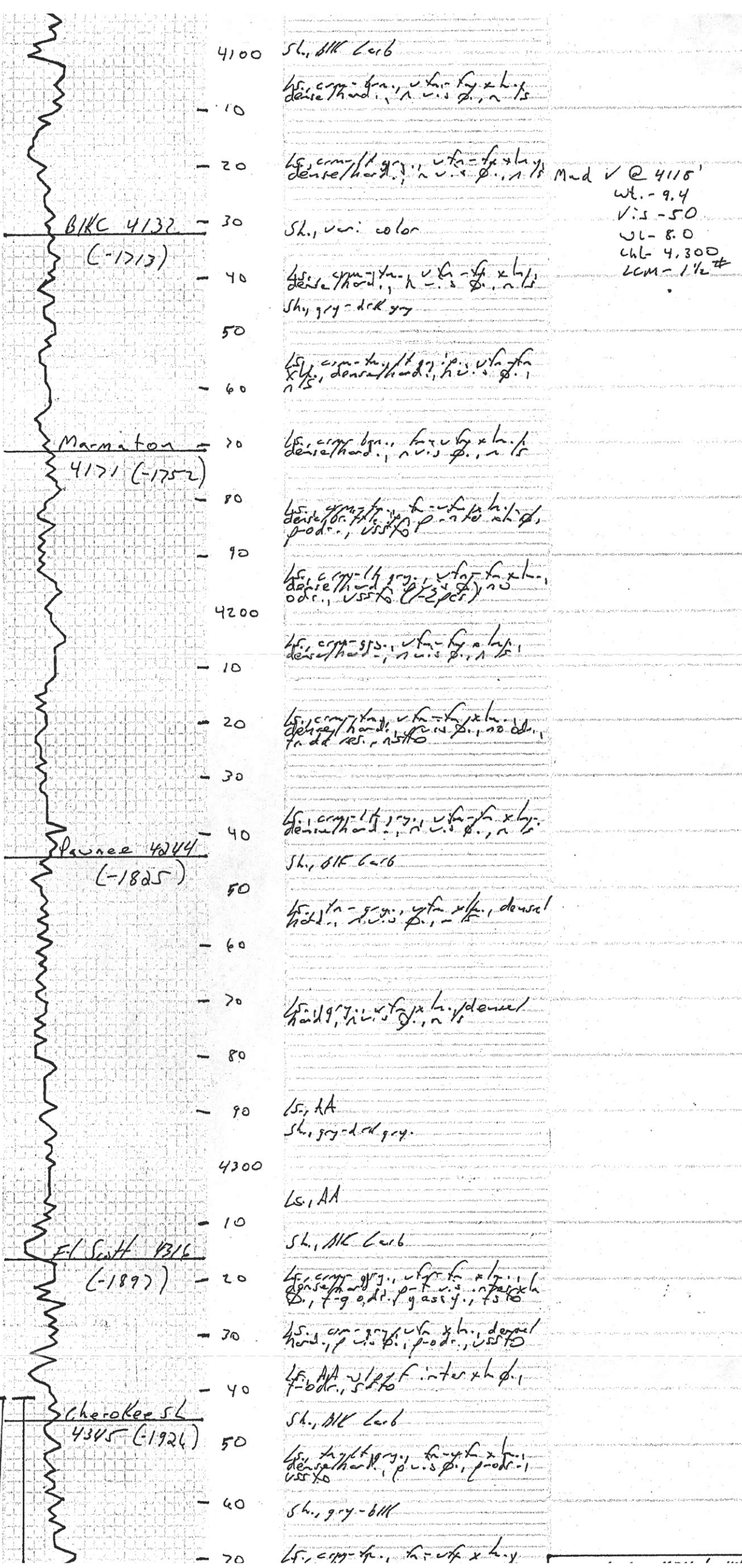
ls. congl. - tan, v. fm x lg x lg,
dense/hard., n.v.s. ϕ , n/s

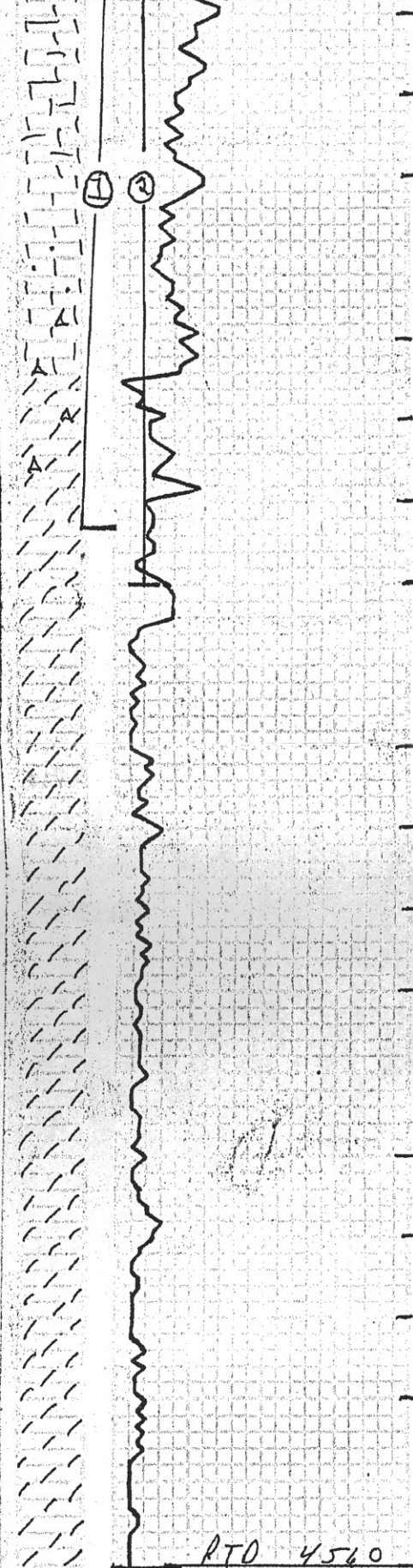
- 70

ls. congl. - tan, fm x lg, v. fm x lg,
dense/hard., n.v.s. ϕ , n/s

- 90

cl. blk carb





70
 80
 90
 4400
 10
 20
 30
 40
 50
 60
 70
 80
 90
 4500
 10
 20
 30
 40
 50
 PTO 4560 (-2141)

DST # 1 4341'-4433'
 30-20-60-60
 Rec. 85' TF
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 HP-2184#-2150#
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 ISI-1110# FSI-1177#

DST # 2 4341'-4440'
 30-30-60-40
 Rec. 311' TF
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 FF-0.0.0-23" FSI-1/4"
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 186' ocm (50900, 50700)
 HP-2158#-2110#
 IFF-30#-47# FFP-92#-151#
 FSI-1242# FSI-1235#

Straddle
 DST # 3 4439'-4460'
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 IFA-99#-381# FFP-402#-625#
 FSI-1289# FSI-1270#