

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	REUSSER "C" 3
Doc ID	1461901

Tops

Name	Top	Datum
Anhy.	1980	(+ 585)
Base Anhy.	2012	(+ 553)
Heebner	3876	(-1311)
Lansing	3916	(-1315)
BKC	4220	(-1655)
Pawnee	4335	(-1770)
Ft. Scott	4420	(-1855)
Cherokee Sh.	4444	(-1879)
Miss.	4526	(-1961)
LTD	4626	(-2061)



RECEIVED
 APR 20 2019

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: 4/17/2019
 Invoice # 1412
 P.O.#:
 Due Date: 5/17/2019
 Division: *Russell*

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 REUSSER C 3 SEC 35-15-25

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 675.02	Yes				
Common-Class A	144	\$ 2,244.32	Yes				
POZ Mix-Standard	96	\$ 508.42	Yes				
Premium Gel (Bentonite)	9	\$ 197.47	Yes				
Bulk Truck Matl-Material Service Charge	249	\$ 188.39	Yes				
Pump Truck Mileage-Job to Nearest Camp	30	\$ 102.14	Yes				
Flo Seal	60	\$ 90.79	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	30	\$ 79.44	Yes				
Dry Hole Plug	1	\$ 63.55	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,149.53
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (103.74)

	SubTotal for Taxable Items: \$ 4,045.79
	SubTotal for Non-Taxable Items: \$ -
	Total: \$ 4,045.79
	Tax: \$ 323.66

8.00% Trego County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,369.45
Applied Payments:
Balance Due: \$ 4,369.45

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 1412

Date	4-17-19	Sec.	35	Twp.	15	Range	25	County	Trego	State	KS	On Location		Finish	10:45A.m
Lease								Well No.		Owner					
Reasser C								3		To Quality Oilwell Cementing, Inc.					
Contractor										You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
WJW#2															
Type Job										Charge To					
Reray Plug										Palomino Petroleum					
Hole Size								T.D.		Cement Amount Ordered					
7 7/8								4590		240 1/4 4 1/2 CLR 1/4 #10					
Csg.								Depth		Street					
Tbg. Size								Depth		City State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
Meas Line								Displace		Common					
EQUIPMENT										144					
Pumptrk								No.		Cement					
17										Helper					
Bulktrk								No.		Driver					
9										Driver					
Bulktrk								No.		Driver					
9										Driver					
JOB SERVICES & REMARKS										Hulls					
Remarks:										Salt					
Rat Hole										Flowseal					
30SK										60#					
Mouse Hole										Kol-Seal					
Centralizers										Mud CLR 48					
Baskets										CFL-117 or CD110 CAF 38					
D/V or Port Collar										Sand					
1 1/2 2000 50SK										Handling					
2 1/2 985 100SK										249					
3 1/2 260 50SK										Mileage					
4 1/2 40 10SK										FLOAT EQUIPMENT					
										8 5/8 Dry Hole Plug					
										Guide Shoe					
										Centralizer					
										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Pumptrk Charge					
										plug					
										Mileage					
										30					
										Tax					
										Discount					
										Total Charge					
X Signature															

Thanks

[Signature]

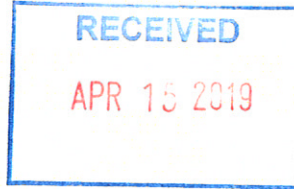


QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE:785-324-1041 FAX:785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 4/10/2019
 Invoice # 1407

P.O.#:
 Due Date: 5/10/2019
 Division: Russell

Invoice



Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 REUSSER C 3 SEC 35-15-25

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				
Pump Truck Mileage-Job to Nearest Camp	30	\$ 102.14	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	30	\$ 79.44	No				
Premium Gel (Bentonite)	3	\$ 65.82	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,369.20
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (84.23)

SubTotal for Taxable Items:	\$ 2,331.76
SubTotal for Non-Taxable Items:	\$ 953.21
Total:	\$ 3,284.97
Tax:	\$ 186.54
Amount Due:	\$ 3,471.51
Applied Payments:	
Balance Due:	\$ 3,471.51

8.00% Trego County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

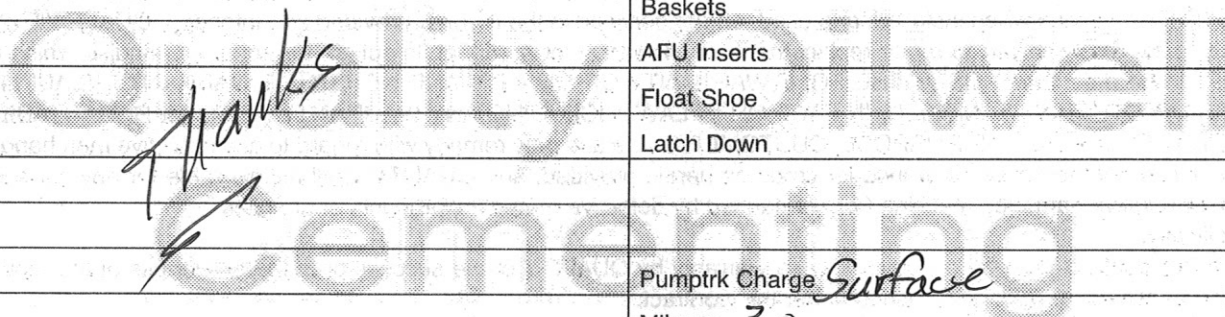
Phone 785-483-2025
Cell 785-324-1041

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

No. 1407

Date	4-10-19	Sec.	35	Twp.	15	Range	25	County	Trego	State	KS	On Location		Finish	8:30 AM	
Lease	Reusser C			Well No.	3			Owner	Winto							
Contractor	WW #2							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job	Surface							Charge To Palomino Petroleum								
Hole Size	12 1/4			T.D.	209			Street								
Csg.	8 5/8			Depth				City								
Tbg. Size				Depth				State								
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.	10'			Shoe Joint				Cement Amount Ordered 150 ⁵⁰ /70 3-1/2 2-1/2								
Meas Line				Displace 12 1/2 BBL												
EQUIPMENT																
Pumptrk	20	No.	Cementer	Craig			Common				120					
			Helper	Tom			Poz. Mix				30					
Bulktrk		No.	Driver	Tom			Gel.				3					
			Driver	Sack			Calcium				?					
Bulktrk	14	No.	Driver	Sack			Hulls									
			Driver	Sack			Salt									
JOB SERVICES & REMARKS																
Remarks:	8 5/8 on bottom. Est. Circulation.												Handling 160			
Rat Hole	Mix 150 sack Displace.												Mileage			
Mouse Hole	Cement Circulation												FLOAT EQUIPMENT			
Centralizers													Guide Shoe			
Baskets													Centralizer			
D/V or Port Collar													Baskets			
													AFU Inserts			
													Float Shoe			
													Latch Down			
													Pumptrk Charge Surface			
													Mileage 30			
													Tax			
													Discount			
													Total Charge			
X Signature	[Signature]															

Thanks





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114+8827

ATTN: Andrew Stenzel

Reusser C #3

35-15S-25W Trego,KS

Start Date: 2019.04.15 @ 23:08:00

End Date: 2019.04.16 @ 05:14:02

Job Ticket #: 65659 DST #: 1

Palomino Petroleum Inc
35-15S-25W Trego,KS
Reusser C #3
DST # 1
Mississippi
2019.04.15

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.04.18 @ 16:52:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton, KS 67114+8827
 ATTN: Andrew Stenzel

35-15S-25W Trego, KS

Reusser C #3

Job Ticket: 65659

DST#: 1

Test Start: 2019.04.15 @ 23:08:00

GENERAL INFORMATION:

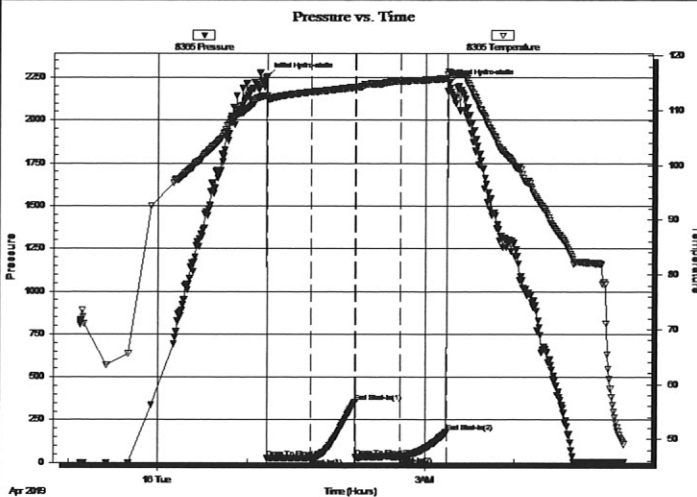
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:13:17
 Time Test Ended: 05:14:02
 Interval: **4468.00 ft (KB) To 4543.00 ft (KB) (TVD)**
 Total Depth: 4543.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2565.00 ft (KB)
 2560.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 35.70 psig @ 4469.00 ft (KB) Capacity: psig
 Start Date: 2019.04.15 End Date: 2019.04.16 Last Calib.: 2019.04.16
 Start Time: 23:08:01 End Time: 05:14:02 Time On Btm: 2019.04.16 @ 01:12:47
 Time Off Btm: 2019.04.16 @ 03:15:02

TEST COMMENT: IF 30 Minutes/ Blow built to 1 1/4"
 ISI 30 Minutes/ No blow back
 FF 30 Minutes/ Dead no blow / Flush tool no help
 FSI 30 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2257.29	112.66	Initial Hydro-static
1	25.15	112.23	Open To Flow (1)
30	25.99	113.34	Shut-In(1)
60	356.09	114.20	End Shut-In(1)
61	30.80	114.19	Open To Flow (2)
91	35.70	115.34	Shut-In(2)
121	178.37	115.84	End Shut-In(2)
123	2218.05	117.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSW O 2% M 98%	0.15

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton, KS 67114+8827
 ATTN: Andrew Stenzel

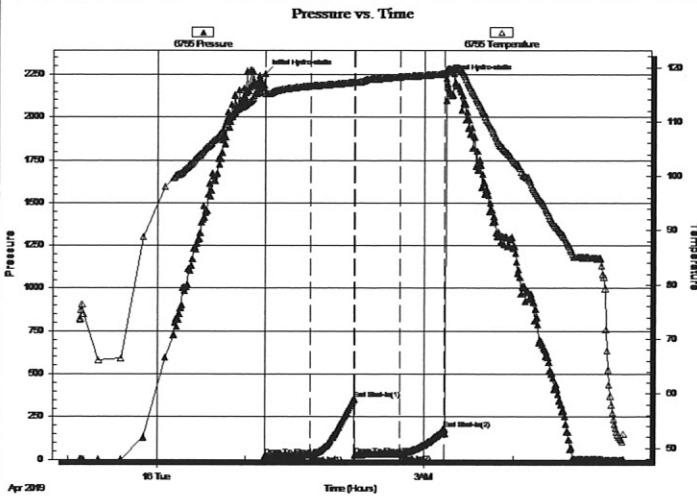
35-15S-25W Trego,KS
Reusser C #3
 Job Ticket: 65659 **DST#: 1**
 Test Start: 2019.04.15 @ 23:08:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:13:17
 Tester: Ken Swinney
 Time Test Ended: 05:14:02
 Unit No: 72
 Interval: **4468.00 ft (KB) To 4543.00 ft (KB) (TVD)**
 Reference Elevations: 2565.00 ft (KB)
 Total Depth: 4543.00 ft (KB) (TVD)
 2560.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6755 **Outside**
 Press@RunDepth: 180.63 psig @ 4470.00 ft (KB) Capacity: psig
 Start Date: 2019.04.15 End Date: 2019.04.16 Last Calib.: 2019.04.16
 Start Time: 23:08:01 End Time: 05:14:02 Time On Btm: 2019.04.16 @ 01:12:32
 Time Off Btm: 2019.04.16 @ 03:15:02

TEST COMMENT: IF 30 Minutes/ Blow built to 1 1/4"
 ISI 30 Mintues/ No blow back
 FF 30 Mintues/ Dead no blow / Flush tool no help
 FSI 30 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.40	115.69	Initial Hydro-static
1	20.23	115.19	Open To Flow (1)
31	26.38	116.59	Shut-In(1)
60	357.20	117.27	End Shut-In(1)
61	28.60	117.27	Open To Flow (2)
91	34.80	118.26	Shut-In(2)
122	180.63	118.84	End Shut-In(2)
123	2226.18	119.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSW O 2% M 98%	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

35-15S-25W Trego,KS
Reusser C #3
Job Ticket: 65659 **DST#: 1**
Test Start: 2019.04.15 @ 23:08:00

Tool Information

Drill Pipe:	Length: 4331.00 ft	Diameter: 3.80 inches	Volume: 60.75 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 61.34 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4468.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.61 ft			
Tool Length:	102.61 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			4445.00	
Hydraulic tool	5.00			4450.00	
Jars	6.00			4456.00	
Safety Joint	2.00			4458.00	
Top Packer	5.00			4463.00	
Packer	5.00			4468.00	28.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	4469.00	
Recorder	1.00	6755	Outside	4470.00	
Anchor	36.00			4506.00	
Change Over Sub	1.00			4507.00	
Drill Pipe	31.61			4538.61	
Change Over Sub	1.00			4539.61	
Bullnose	3.00			4542.61	74.61 Anchor Tool

Total Tool Length: 102.61



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

35-15S-25W Trego,KS
Reusser C #3
Job Ticket: 65659 **DST#: 1**
Test Start: 2019.04.15 @ 23:08:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OSM O 2% M 98%	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

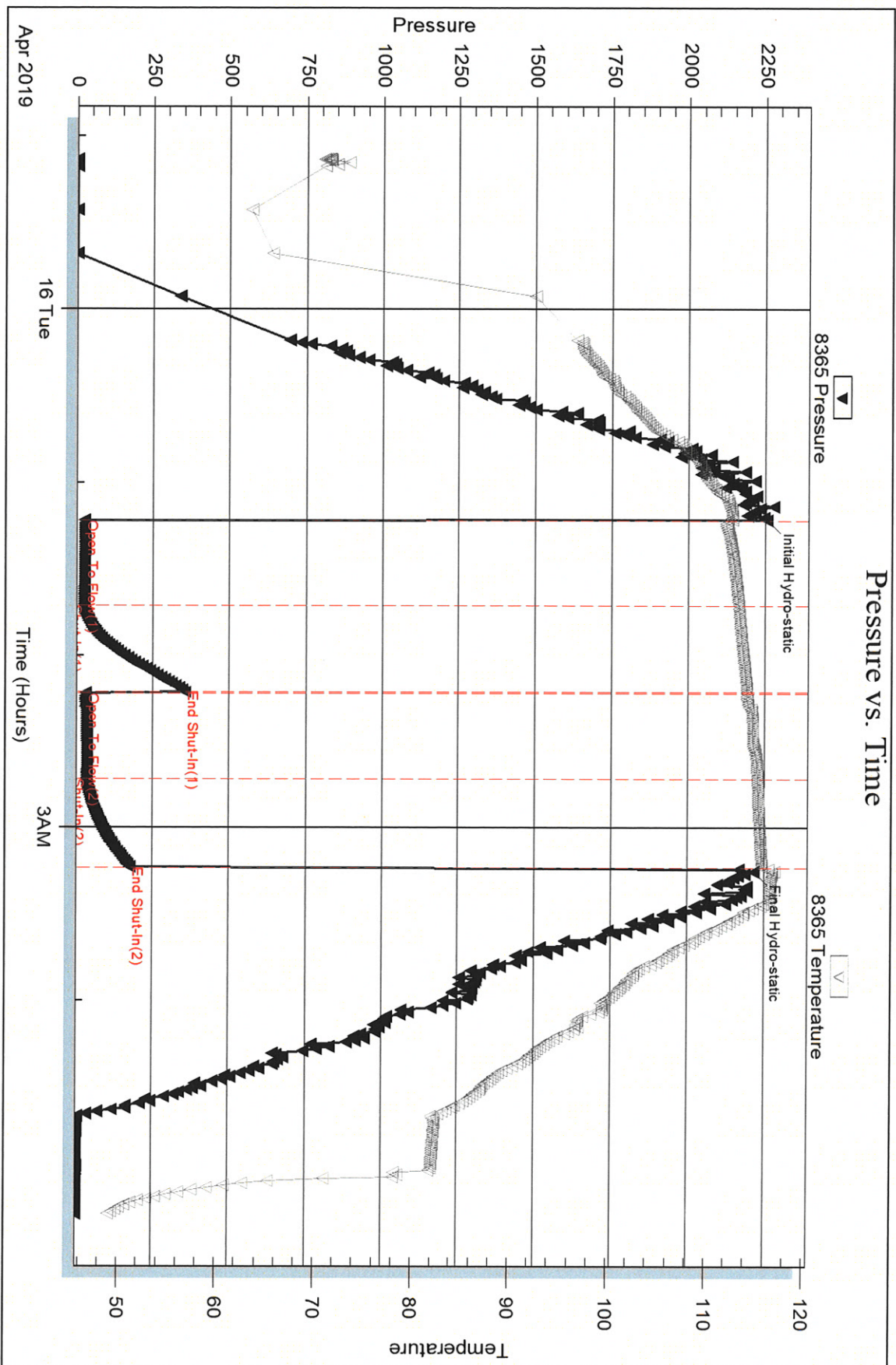
Serial #: 8365

Inside

Palomino Petroleum Inc

Reusser C #3

DST Test Number: 1



Tribolite Testing, Inc

Ref. No: 65659

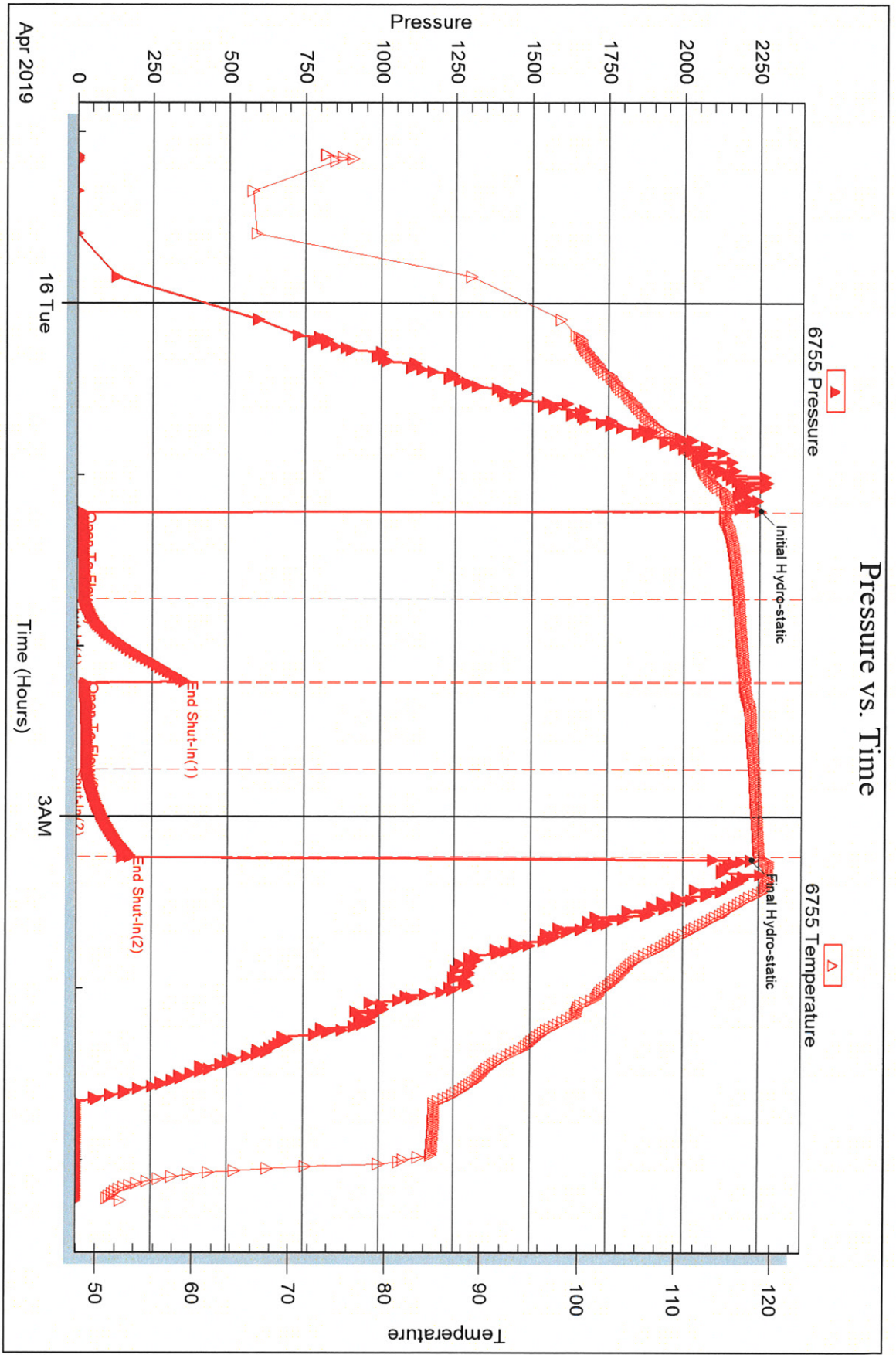
Printed: 2019.04.18 @ 16:52:33

Serial #: 6755

Outside Palomino Petroleum Inc

Reusser C #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65659

Printed: 2019.04.18 @ 16:52:33



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114+8827

ATTN: Andrew Stenzel

Reusser C #3

35-15S-25W Trego,KS

Start Date: 2019.04.16 @ 19:23:00

End Date: 2019.04.17 @ 02:41:02

Job Ticket #: 65660 DST #: 2

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

Printed: 2019.04.18 @ 16:51:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton, KS 67114+8827
 ATTN: Andrew Stenzel

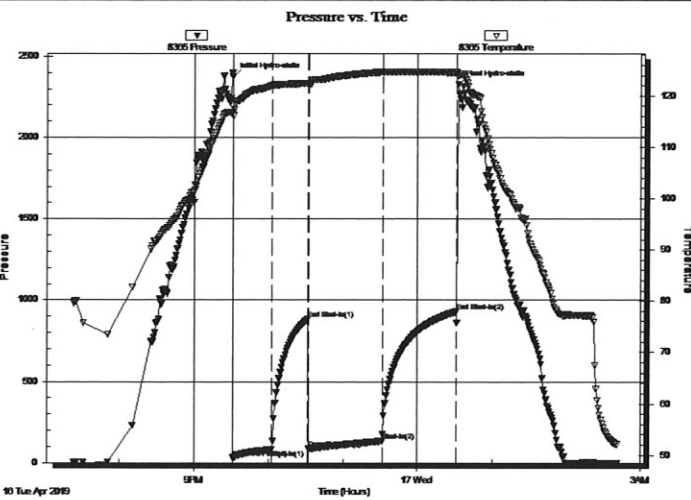
35-15S-25W Trego, KS
Reusser C #3
 Job Ticket: 65660 **DST#: 2**
 Test Start: 2019.04.16 @ 19:23:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 21:31:32 Tester: Ken Swinney
 Time Test Ended: 02:41:02 Unit No: 72
 Interval: **4540.00 ft (KB) To 4568.00 ft (KB) (TVD)** Reference Elevations: 2565.00 ft (KB)
 Total Depth: 4626.00 ft (KB) (TVD) 2560.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 134.57 psig @ 4540.00 ft (KB) Capacity: psig
 Start Date: 2019.04.16 End Date: 2019.04.17 Last Calib.: 2019.04.17
 Start Time: 19:23:01 End Time: 02:41:02 Time On Btm: 2019.04.16 @ 21:31:02
 Time Off Btm: 2019.04.17 @ 00:32:47

TEST COMMENT: IF 30 Minutes/ Blow built to 8 3/4"
 ISI 30 Minutes/ No blow back
 FF 60 Minutes/ Blow built to 10"
 FSI 60 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2373.25	116.82	Initial Hydro-static
1	31.50	116.10	Open To Flow (1)
32	81.62	122.03	Shut-In(1)
60	884.25	122.42	End Shut-In(1)
61	87.44	122.24	Open To Flow (2)
121	134.57	124.65	Shut-In(2)
181	930.08	124.56	End Shut-In(2)
182	2327.79	123.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
258.00	MW w/show oil/ M 10% W 90%	2.53
10.00	FO/ O 100%	0.14

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton, KS 67114+8827
 ATTN: Andrew Stenzel

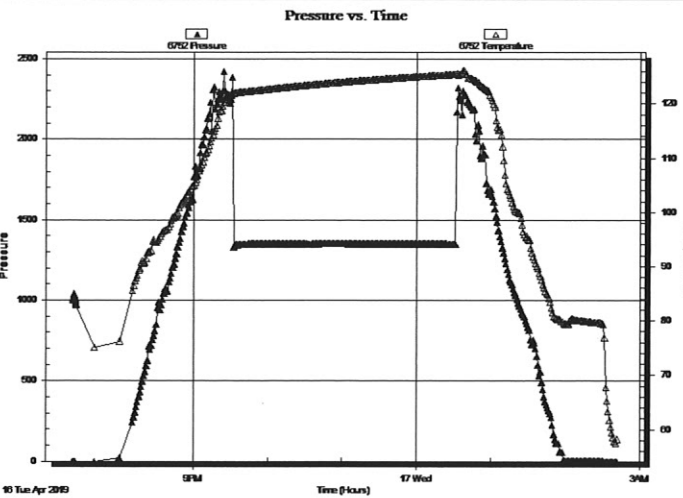
35-15S-25W Trego, KS
Reusser C #3
 Job Ticket: 65660 **DST#: 2**
 Test Start: 2019.04.16 @ 19:23:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 21:31:32 Tester: Ken Swinney
 Time Test Ended: 02:41:02 Unit No: 72
 Interval: **4540.00 ft (KB) To 4568.00 ft (KB) (TVD)** Reference Elevations: 2565.00 ft (KB)
 Total Depth: 4626.00 ft (KB) (TVD) 2560.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6752 Below (Straddle)
 Press@RunDepth: psig @ 4572.55 ft (KB) Capacity: psig
 Start Date: 2019.04.16 End Date: 2019.04.17 Last Calib.: 2019.04.17
 Start Time: 19:23:01 End Time: 02:42:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF 30 Minutes/ Blow built to 8 3/4"
 ISI 30 Minutes/ No blow back
 FF 60 Minutes/ Blow built to 10"
 FSI 60 Minutes/ No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
258.00	MW w/show oil/ M 10% W 90%	2.53
10.00	FO/ O 100%	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

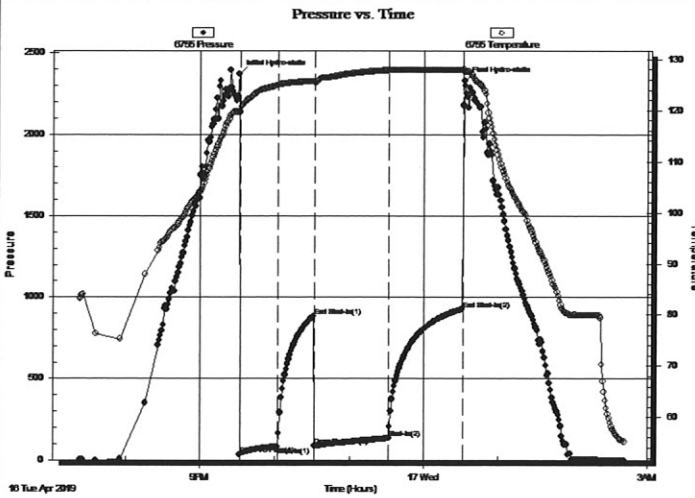
35-15S-25W Trego,KS
Reusser C #3
Job Ticket: 65660 **DST#: 2**
Test Start: 2019.04.16 @ 19:23:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:31:32
Time Test Ended: 02:41:02
Interval: **4540.00 ft (KB) To 4568.00 ft (KB) (TVD)**
Total Depth: 4626.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2565.00 ft (KB)
2560.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6755 **Outside**
Press@RunDepth: 927.63 psig @ 4540.00 ft (KB) Capacity: psig
Start Date: 2019.04.16 End Date: 2019.04.17 Last Calib.: 2019.04.17
Start Time: 19:23:01 End Time: 02:41:02 Time On Btm: 2019.04.16 @ 21:31:02
Time Off Btm: 2019.04.17 @ 00:32:47

TEST COMMENT: IF 30 Minutes/ Blow built to 8 3/4"
ISI 30 Minutes/ No blow back
FF 60 Minutes/ Blow built to 10"
FSI 60 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2371.57	119.75	Initial Hydro-static
1	32.34	119.59	Open To Flow (1)
32	82.65	124.93	Shut-In(1)
61	883.16	125.63	End Shut-In(1)
61	86.22	125.53	Open To Flow (2)
121	134.25	127.84	Shut-In(2)
181	927.63	127.82	End Shut-In(2)
182	2329.91	127.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
258.00	MW w/show oil/ M 10% W 90%	2.53
10.00	FO/ O 100%	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
Newton, KS 67114+8827
ATTN: Andrew Stenzel

35-15S-25W Trego, KS
Reusser C #3
Job Ticket: 65660 **DST#: 2**
Test Start: 2019.04.16 @ 19:23:00

Tool Information

Drill Pipe:	Length: 4429.00 ft	Diameter: 3.80 inches	Volume: 62.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 68000.00 lb
		Total Volume: 62.72 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.70 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4540.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4623.49 ft			
Interval between Packers:	83.49 ft			
Tool Length:	107.19 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			4521.30	
Hydraulic tool	5.00			4526.30	
Jars	5.00			4531.30	
Safety Joint	2.00			4533.30	
Top Packer	5.00			4538.30	
Packer	1.70			4540.00	23.70 Bottom Of Top Packer
Recorder	0.00	8365	Inside	4540.00	
Recorder	0.00	6755	Outside	4540.00	
Anchor	22.00			4562.00	
Blank Off Sub	1.00			4563.00	
Packer (Interval Side)	2.80			4565.80	
Packer (Tail Side)	1.75			4567.55	
Perforations	5.00			4572.55	
Recorder	0.00	6752	Below	4572.55	
Change Over Sub	0.85			4573.40	
Drill Pipe	31.94			4605.34	
Change Over Sub	1.15			4606.49	
Perforations	14.00			4620.49	
Bullnose	3.00			4623.49	83.49 Anchor Tool

Total Tool Length: 107.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Andrew Stenzel

35-15S-25W Trego,KS
Reusser C #3
Job Ticket: 65660 **DST#: 2**
Test Start: 2019.04.16 @ 19:23:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 20000 ppm	
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
258.00	MW w /show oil/ M 10% W 90%	2.526
10.00	FO/ O 100%	0.140

Total Length: 268.00 ft Total Volume: 2.666 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Recovery Resistivity .368 ohms @ 58 deg.

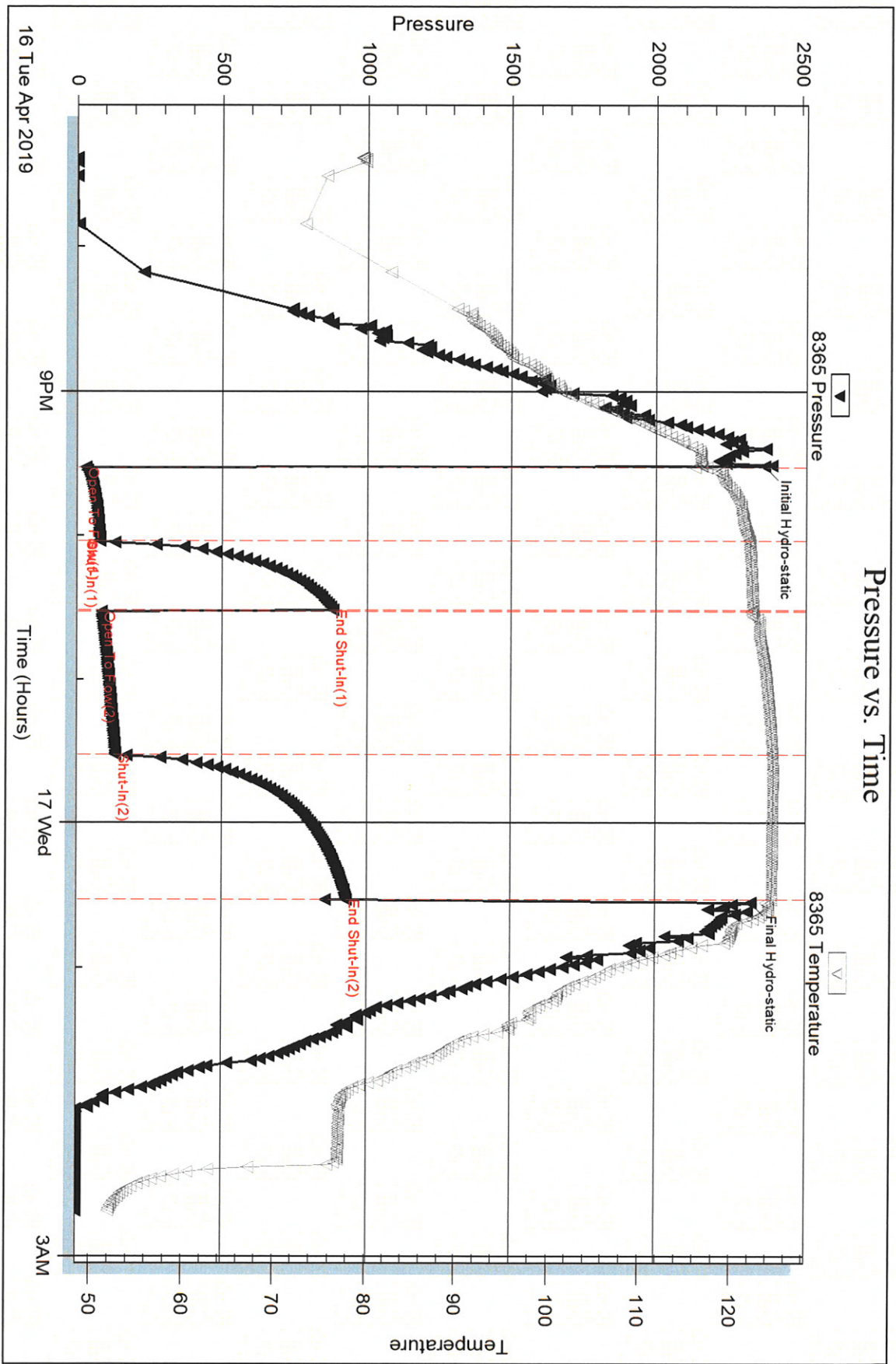
Serial #: 8365

Inside

Palomino Petroleum Inc

Reusser C #3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65660

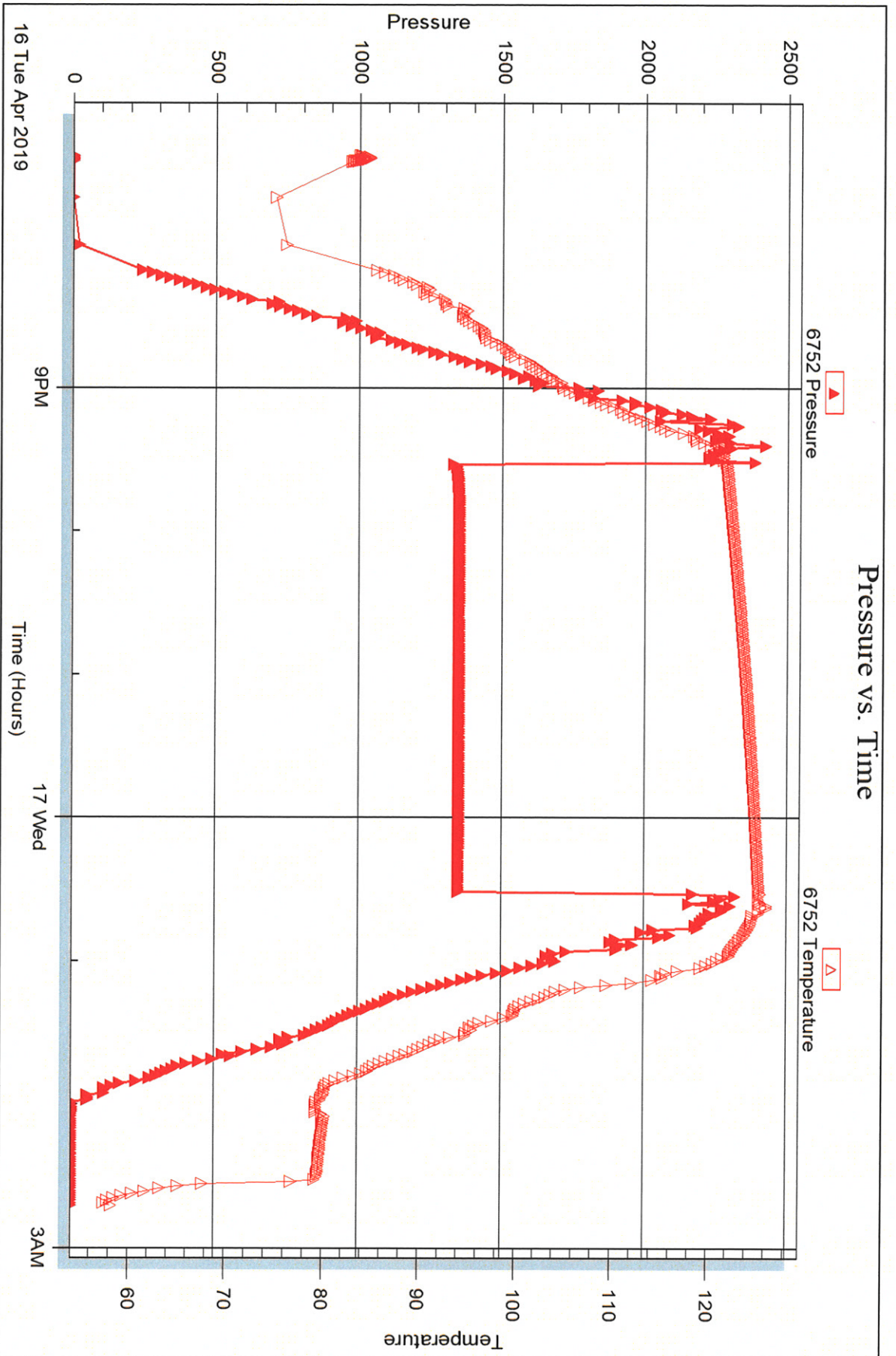
Printed: 2019.04.18 @ 16:52:00

Serial #: 6752

Below (Stratigraphy Petroleum Inc

Reusser C #3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65660

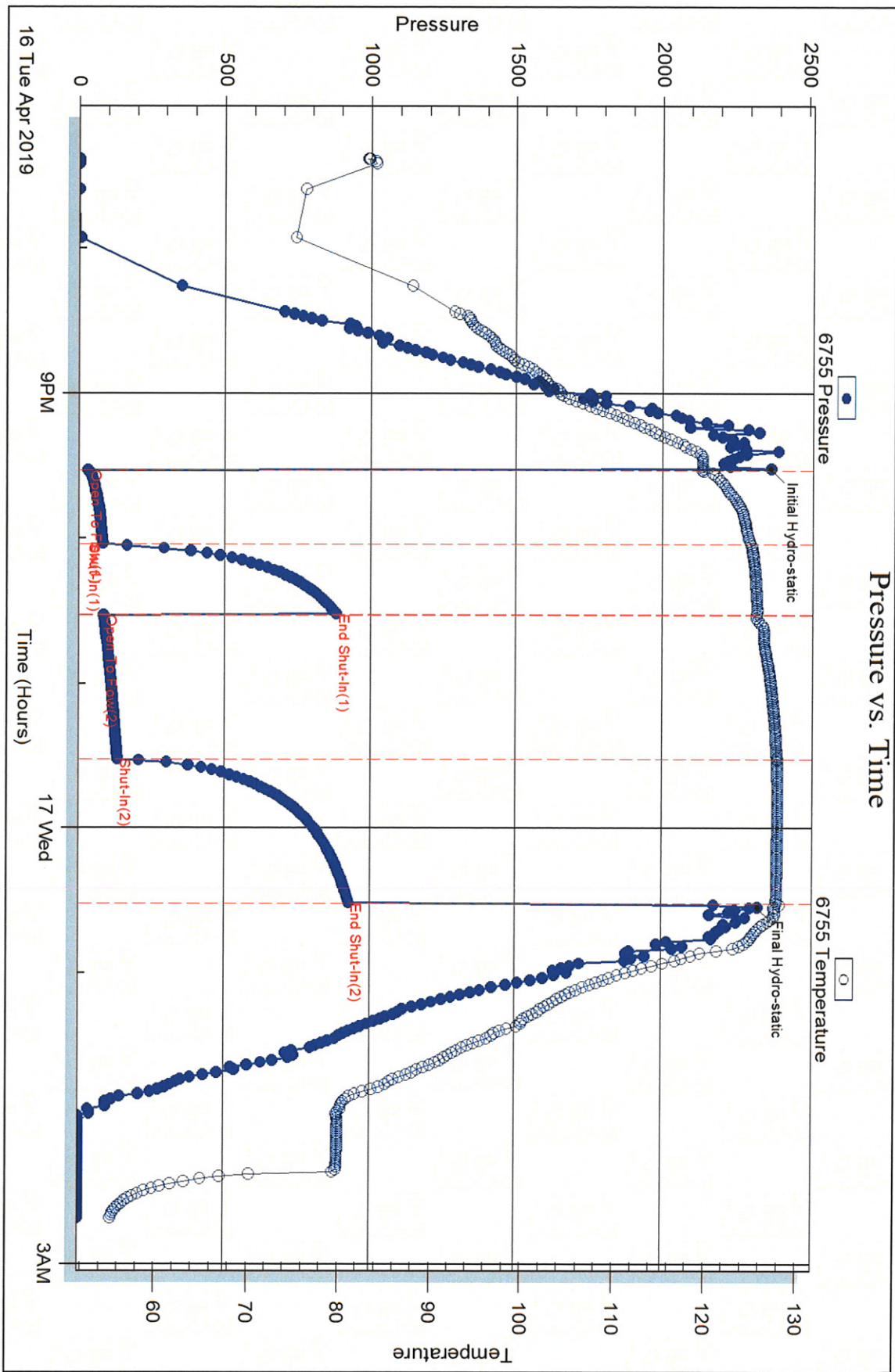
Printed: 2019.04.18 @ 16:52:00

Serial #: 6755

Outside Palomino Petroleum Inc

Reusser C#3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65660

Printed: 2019.04.18 @ 16:52:00



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65659

Well Name & No. Reusser C #3 Test No. 1 Date 15 APR 19
 Company Palomino Petroleum Inc Elevation 2565 KB 2560 GL
 Address 4924 SE 84th St Newton Kansas 67114+8827
 Co. Rep / Geo. Andrew Stenzel Rig WW Rig 2
 Location: Sec. 35 Twp 15S Rge. 25W Co. Trego State KS

Interval Tested 4468-4543 Zone Tested Miss. ss. m'
 Anchor Length 75 Drill Pipe Run 4331 Mud Wt. 9.45
 Top Packer Depth 4463 Drill Collars Run 100 Vis 47
 Bottom Packer Depth 4468 Wt. Pipe Run - WL 9.6
 Total Depth 4543 Chlorides 4300 ppm System LCM 17

Blow Description IF Blow back to 1/4 inch
IST No blow back
FF Dead no blow/Flush tool no help
FSI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OSM</u>	<u>2</u>		<u>78</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

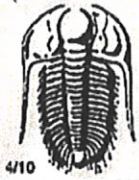
Rec Total 30 BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2257 Test 1300 T-On Location 10:15 pm
 (B) First Initial Flow 25 Jars 250 T-Started 11:08 pm
 (C) First Final Flow 25 Safety Joint 75 T-Open 1:13 am
 (D) Initial Shut-In 356 Circ Sub _____ T-Pulled 3:13 am
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 5:15 am
 (F) Second Final Flow 35 Mileage 132 132 Comments _____
 (G) Final Shut-In 178 Sampler _____
 (H) Final Hydrostatic 2218 Straddle _____

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 30 Day Standby _____ Extra Copies _____
 Sub Total 0 Accessibility _____
 Sub Total 1757 MP/DST Disc't _____

Approved By _____ Our Representative _____

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65660**

Well Name & No. Reusser C #3 Test No. 2 Date 16 APR 19
 Company Palomina Petroleum Inc. Elevation 2565 KB 2560 GL
 Address 4924 SE 84th St Newton Kansas 67114+8827
 Co. Rep / Geo. Andrew Stenzel Rig WW Rig 2
 Location: Sec. 35 Twp 15S Rge. 25W Co. Trego State KS

Interval Tested 4540-4568 Zone Tested Mississippi
 Anchor Length 28 Drill Pipe Run 4429 Mud Wt. 9.3
 Top Packer Depth 4535 Drill Collars Run 120 Vis 53
 Bottom Packer Depth 4540 Wt. Pipe Run — WL 10.4
 Total Depth 4626 Chlorides 6000 ppm System LCM 3#

Blow Description IF Blow built to 8 3/4 inch
ISI No slow back
FF Blow built to 10 inch
FSI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>clean oil</u>	<u>100</u>			
<u>258</u>	<u>MW w/slow oil</u>			<u>90</u>	<u>10</u>

Rec Total 268 BHT 124 Gravity _____ API RW _____ @ _____ °F Chlorides 20000 ppm

(A) Initial Hydrostatic 2373 Test 1300 T-On Location 7:00 pm
 (B) First Initial Flow 31 Jars 250 T-Started 7:23 pm
 (C) First Final Flow 81 Safety Joint 75 T-Open 9:33 pm
 (D) Initial Shut-In 884 Circ Sub _____ T-Pulled 12:33 am
 (E) Second Initial Flow 87 Hourly Standby _____ T-Out 2:44 am
 (F) Second Final Flow 134 Mileage 132 132 Comments _____
 (G) Final Shut-In 930 Sampler _____
 (H) Final Hydrostatic 2327 Straddle 600 EM Tool _____

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 2357 Accessibility _____ Total 2357
 Sub Total 2357 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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



Home
(785) 798-3400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-5977

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

Well Name: Reusser "C" #3
API: 15-195-23087-00-00
Location: NE-SE-SW-NE Sec. 35-15S-25W (Trego County)
License Number: 30742
Spud Date: 4/10/19
Surface Coordinates: 2224' FNL & 1598' FEL
Region: KANSAS
Drilling Completed: 4/17/19

Bottom Hole
Coordinates:
Ground Elevation (ft): 2560
Logged Interval (ft): 3600 To: TD
Formation: MISSISSIPPI
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2565
Total Depth (ft): 4631

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

OPERATOR

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

GEOLOGIST

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

Drilling Report

DAILY DRILLING REPORT:

4/10/19 MIRU, ran surfcae casing
4/11/19 Drilling @ 369'
4/12/19 Drilling @ 2564'
4/13/19 Drilling @ 3365'
4/14/19 Drilling @ 4020'
4/15/19 Drilling @ 4405'
4/16/19 DST #1, ran electric logs
4/17/19 DST #2, plugged & abandoned

Services

RIG: WW Drilling, Rig #2

MUD: MUDCO

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

Casing Record

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

PRODUCTION Casing: None

Formation Tops

Sample Tops		LogTops	
Anhy.	1985 (+580)	Anhy.	1980 (+585)
Base Anhy.	2017 (+548)	Base Anhy.	2012 (+553)
Heebner	3881 (-1316)	Heebner	3876 (-1311)
Lansing	3920 (-1355)	Lansing	3916 (-1351)
BKC	4218 (-1653)	BKC	4220 (-1655)
Pawnee	4335 (-1770)	Pawnee	4335 (-1770)
Ft. Scott	4423 (-1858)	Ft. Scott	4420 (-1855)
Cher. Sh.	4448 (-1883)	Cher. Sh.	4444 (-1879)
Miss.	4524 (-1959)	Miss.	4526 (-1961)
RTD	4631 (-2066)	LTD	4626 (-2061)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton, Kansas
 67114+8827
 ATTN: Andrew Stenzel

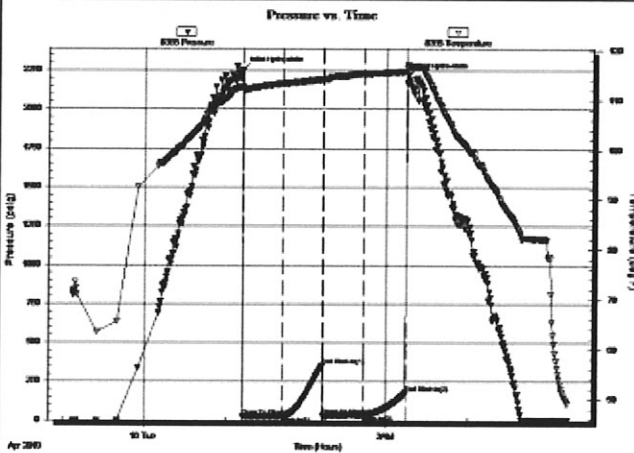
35/15S/25W/Trego
Reusser C #3
 Job Ticket: 65659 **DST#: 1**
 Test Start: 2019.04.15 @ 23:08:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:13:17 Tester: Ken Swinney
 Time Test Ended: 05:14:02 Unit No: 72 Hays/ 132
 Interval: **4468.00 ft (KB) To 4543.00 ft (KB) (TVD)** Reference Elevations: 2565.00 ft (KB)
 Total Depth: 4543.00 ft (KB) (TVD) 2560.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8365 **Inside**
 Press@RunDepth: 35.70 psig @ 4469.00 ft (KB) Capacity: psig
 Start Date: 2019.04.15 End Date: 2019.04.16 Last Calib.: 2019.04.16
 Start Time: 23:08:01 End Time: 05:14:02 Time On Btm: 2019.04.16 @ 01:12:47
 Time Off Btm: 2019.04.16 @ 03:15:02

TEST COMMENT: IF 30 Minutes/ Blow built to 1 1/4 inch
 ISI 30 Minutes/ No blow back
 FF 30 Minutes/ Dead no blow/ Flush tool no help
 FSI 30 Minutes/ No blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2257.29	112.66	Initial Hydro-static
1	25.15	112.23	Open To Flow (1)
30	25.99	113.34	Shut-In(1)
60	356.09	114.20	End Shut-In(1)
61	30.80	114.19	Open To Flow (2)
91	35.70	115.34	Shut-In(2)
121	178.37	115.84	End Shut-In(2)
123	2218.05	117.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSM O 2% M 98%	0.15

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton, Kansas
 67114+8827
 ATTN: Andrew Stenzel

35/15S/25W/Trego

Reusser C #3

Job Ticket: 65660

DST#: 2

Test Start: 2019.04.16 @ 19:23:00

GENERAL INFORMATION:

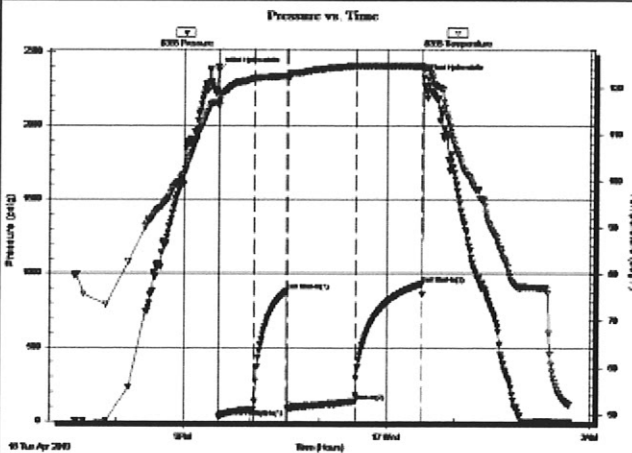
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:31:32
 Time Test Ended: 02:41:02
 Interval: **4540.00 ft (KB) To 4568.00 ft (KB) (TVD)**
 Total Depth: 4626.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Ken Swinney
 Unit No: 72 Hays/ 132
 Reference Elevations: 2565.00 ft (KB)
 2560.00 ft (CF)
 KB to GRV/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 134.57 psig @ 4540.00 ft (KB) Capacity: psig
 Start Date: 2019.04.16 End Date: 2019.04.17 Last Calib.: 2019.04.17
 Start Time: 19:23:01 End Time: 02:41:02 Time On Btm: 2019.04.16 @ 21:31:02
 Time Off Btm: 2019.04.17 @ 00:32:47

TEST COMMENT: IF 30 Minutes/ Blow built to 8 3/4 inch
 ISI 30 Minutes/ No blow back
 FF 60 Minutes/ Blow built to 10 inch
 FSI 60 Minutes/ No blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2373.25	116.82	Initial Hydro-static
1	31.50	116.10	Open To Flow (1)
32	81.62	122.03	Shut-In(1)
60	884.25	122.42	End Shut-In(1)
61	87.44	122.24	Open To Flow (2)
121	134.57	124.65	Shut-In(2)
181	930.08	124.56	End Shut-In(2)
182	2327.79	123.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
258.00	MW w/show oil/ M 10% W 90%	2.53
10.00	FO/ O 100%	0.14

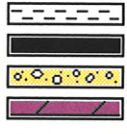
Gas Rates

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

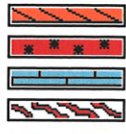
ROCK TYPES



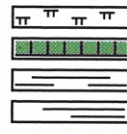
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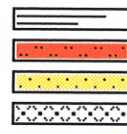
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Congl
Dol



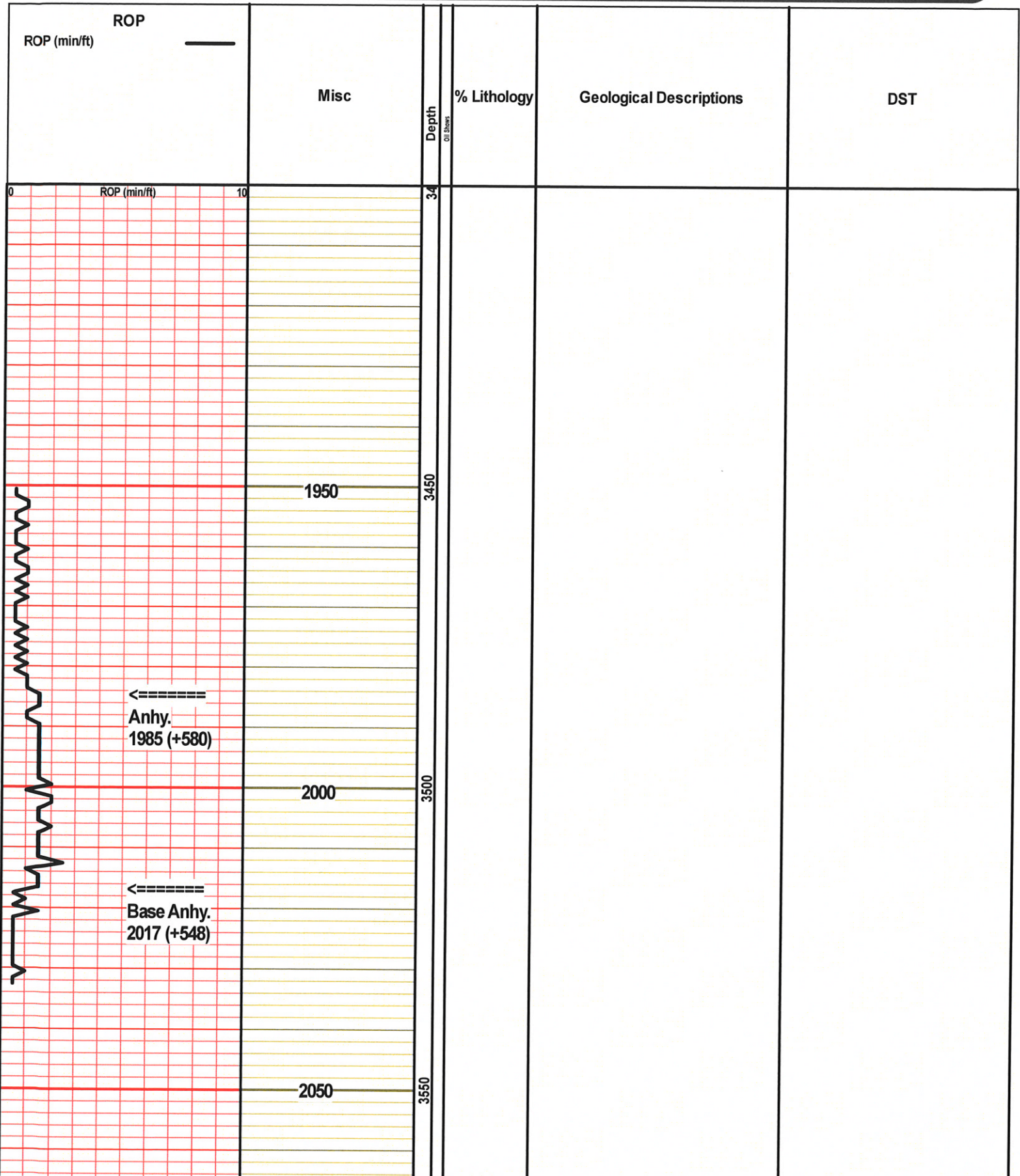
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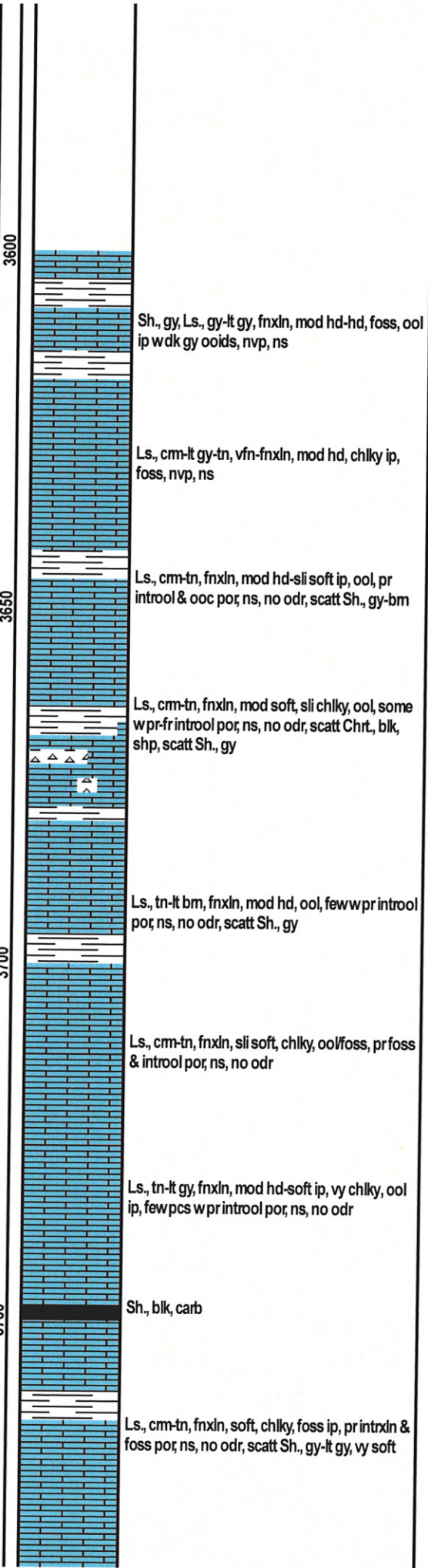
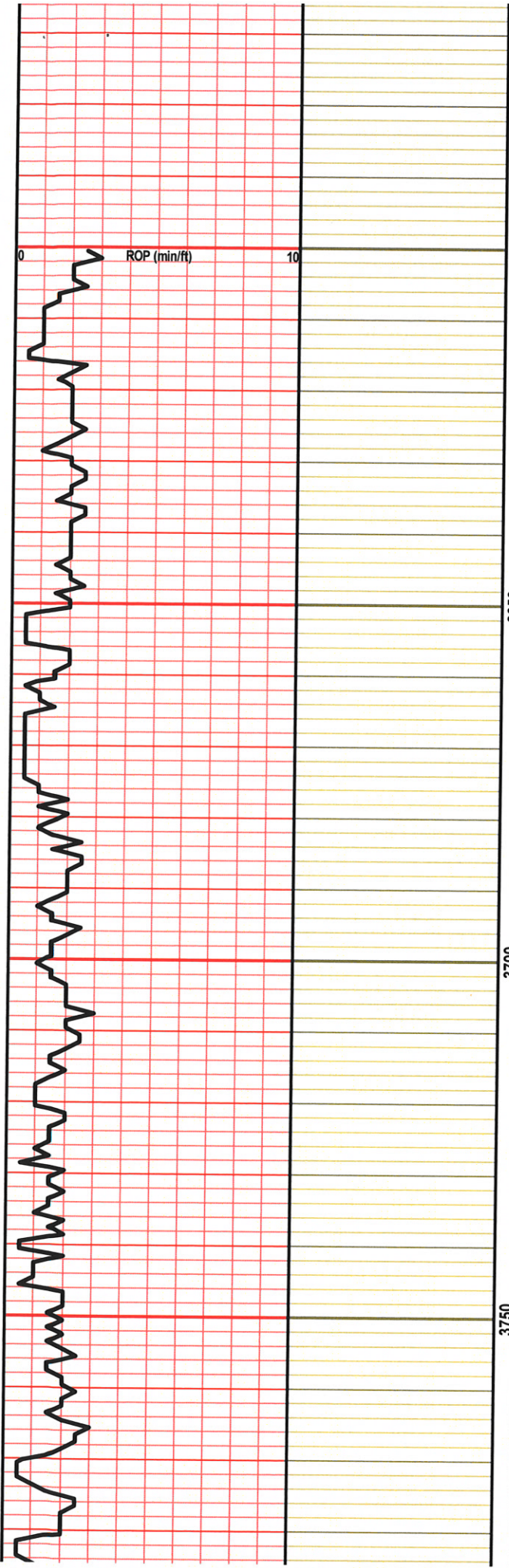


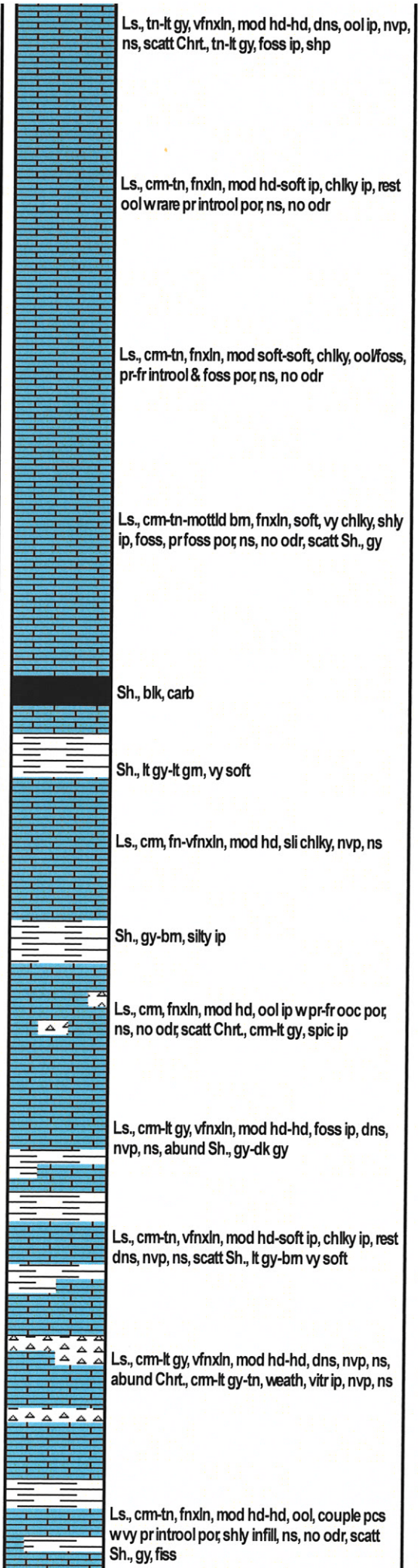
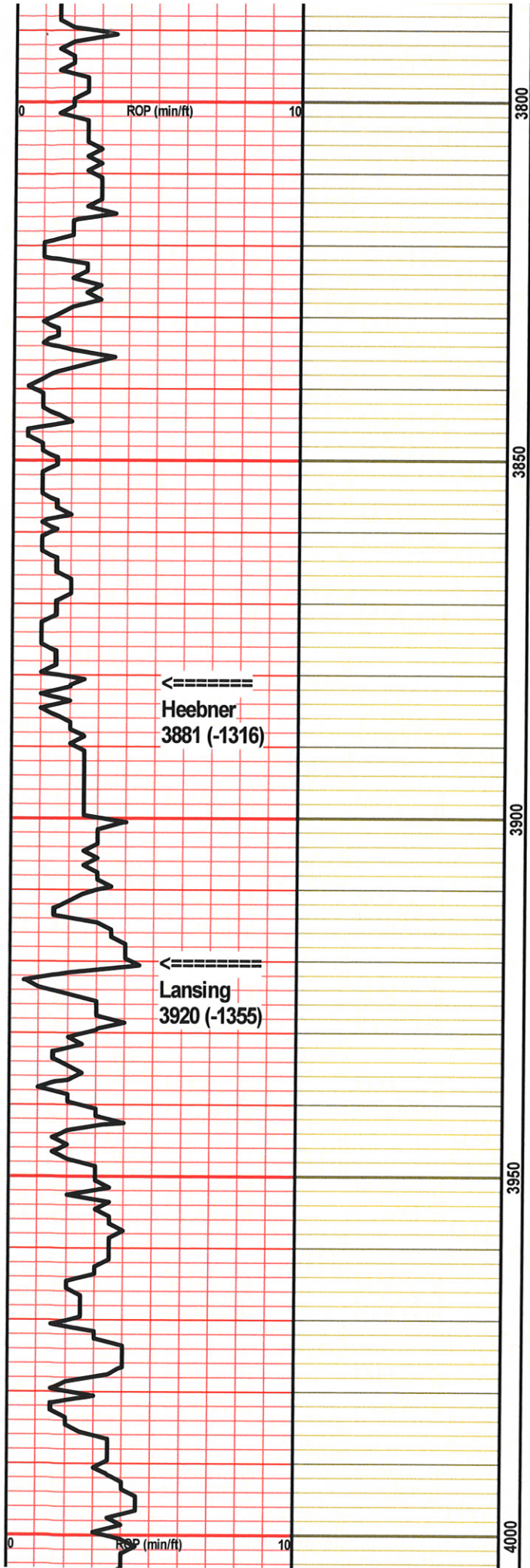
Mrlst
Salt
Shale
Shcol

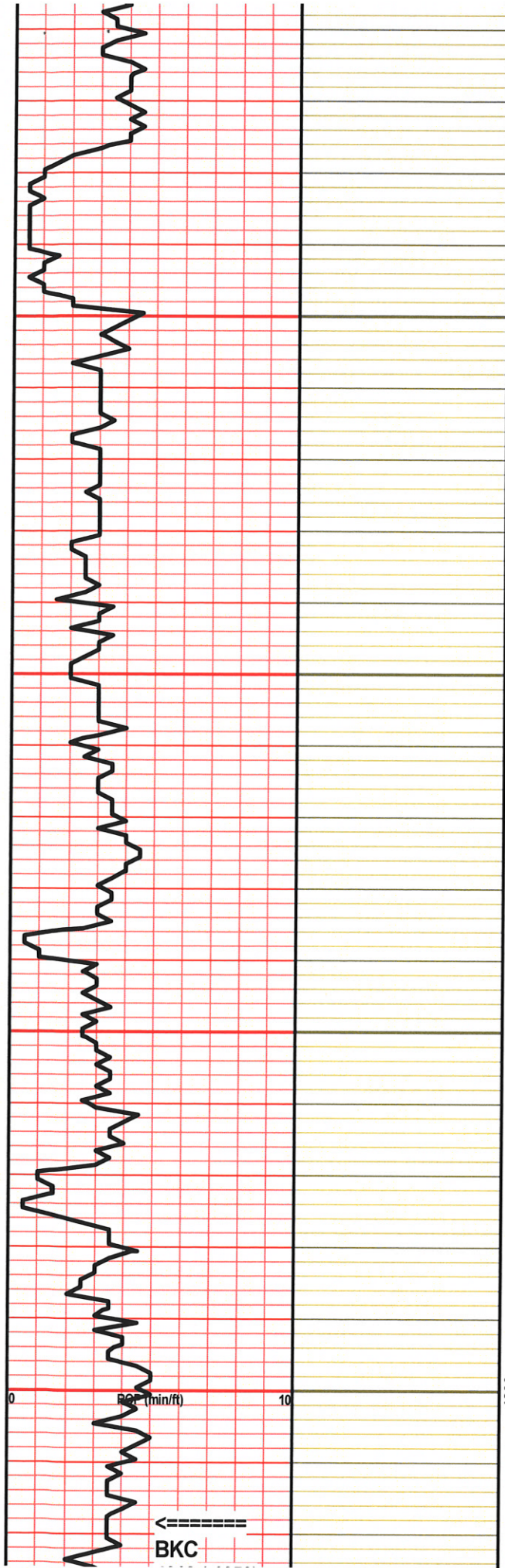


Shgy
Sltst
Ss
Till

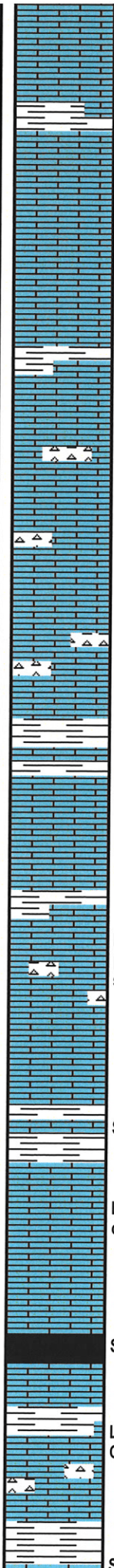








4050
4100
4150
4200



Ls., cm, fnxln, mod hd, ool ip, few pcs w pr
introl por wshly infill, ns, no odr, scatt Sh., gy

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

Ls., cm-tn, fnxln, mod hd-hd, ool ip, few pcs w
pr ooc por, ns, no odr, scatt Sh., gy

Ls., cm-lt gy, fn-vfnxln, mod hd, tr rexid calc,
couple pcs w pr iso vug por, ns, no odr, scatt
Chrt, tn, sli weath

Ls., cm-tn, fnxln, mod hd, foss, chrt ip, nvp,
ns, scatt Chrt, cm-lt gy, opq, foss ip

Sh., gy-bm

Ls., cm, vfnxln, mod hd, dns, tr py; nvp, ns

Ls., cm, fnxln, mod hd-mod soft, ool, pr fr ooc
por, ns, no odr or fluoro, scatt Chrt, cm, shp,
scatt Sh., gy

Sh., gy-dk gy, vy soft ip

Ls., tn, vfnxln, mod hd, ool ip, few pcs w pr-fr
ooc por, ns, no odr, abund Chrt, cm-tn, shp

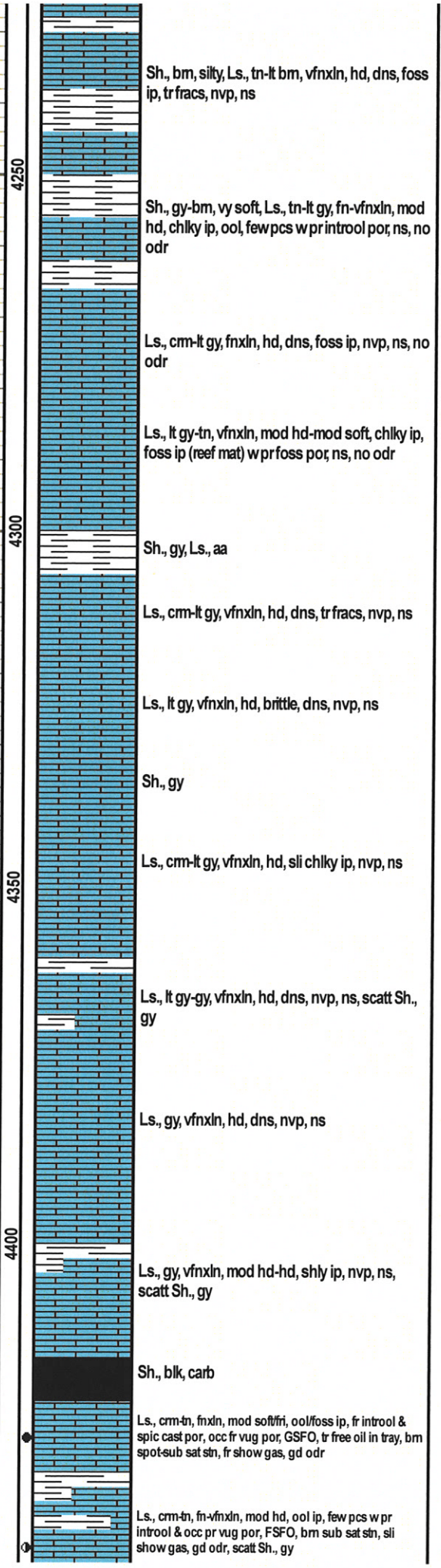
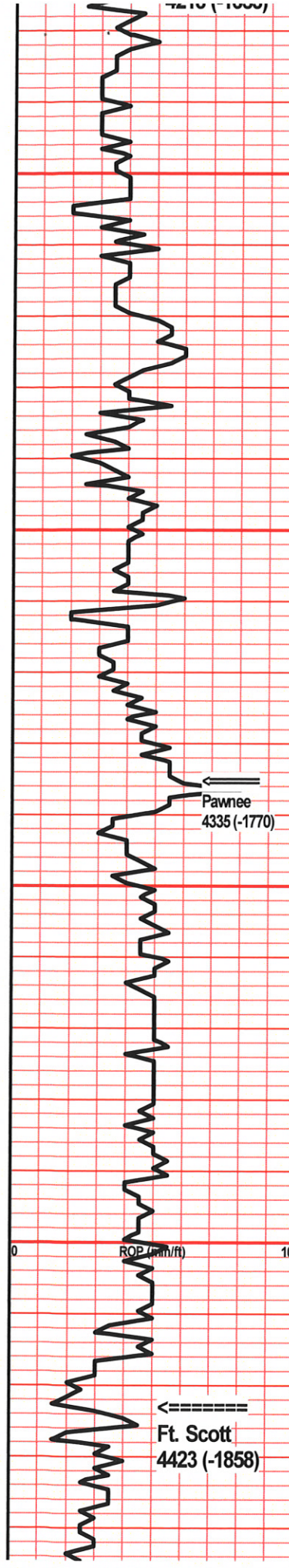
Sh., blk, carb

Ls., cm-tn, fnxln, mod hd, silty ip, nvp, ns, scatt
Chrt, tn, shp, scatt Sh., lt gy, soft

Sh. mv-dk mv-hm

0 10
RF (min/ft)

BKC



Cher. Sh
4448 (-1883)

DST 1 Short Trip @4475'; 50 stds

Mud @4475'
Wt. 9.45
Vis. 47
Filtrate 9.6
Chlor 4300
LCM 1#

DST 2 CFS 4543

Pipe Strap:
1.18' short
Dev. Survey:
3/4

Mud @4475'
Wt. 9.45
Vis. 47
Filtrate 9.6
Chlor 4300
LCM 1#

RTD
4631 (-2066)

Mud @4631'
Wt. 9.3
Vis. 553
Filtrate 10.4
Chlor 6000
LCM 3#

ROP (min/ft)

4450
4500
4550
4600
4650

Sh., blk, carb

Ls., cm, vfnxn, mod hd, trfracs, vy prfrac por, VSSFO, lt bm stn, no det odr, scatt Sh., gy

Sh., gy-lt gm-bm, soft ip, Ls., cm-tn, vfnxn, hd, few pcs wvy pr iso vug por, VSSFO, bm spot stn, no det odr, couple pcs Chrt, tn-org, weath

Chrt, yel-org, weath, Sh., yel-gy-red, scatt Ls., cm, vfnxn, mod hd, sli chky, nvp, ns

Chrt, crm-yel-org, weath, foss ip, Sh., aa

Sh., gy-lt gm-yel, Dol., lt gy, vfnxn, hd, dns, nvp, ns, scatt Chrt, aa, scatt Ls., cm, fnxn, ool ip, weath, nvp, ns

Dol., lt gy-tn, fnxn, many hd, nvp, ns, many wht, chky, soft, few pcs w pr intrxn & rare fr vug por, FSFO, bm sub sat stn, fr odr, scatt Sh., gy

Dol., cm-tn, fnxn, rare med xln, sli fri/soft, sli sucr ip, pr-fr intrxn & vug por, occ fr spi cast por, FSFO, abund dk bm spot-sub sat stn, gd odr, incr in por and shows in 60 min sample

Sh., gy-bm, Ls., cm, vfnxn, mod hd, nvp, ns, Dol., cm-tn, fnxn, few pcs hd nvp, rest w fr intrxn & vug por, FSFO ip, most w SSFO, spot-sub sat stn, couple w blk sat stn, fr odr

Dol., cm-tn, fr-vfnxn, few hd w nvp, ns, rest w pr-fr vug por, SSFO, spot bm stn, fr odr, abund Sh., gy-bm

Dol., aa, sli decr shows, chrt ip, scatt Chrt, cm-wht, shp, wk cup odr

Dol., cm, fnxn, mod hd/fim, fr intrxn, vug & occ spic cast por, 5-10% w SSFO, bm sub sat stn, 20-30% w SSFO, spot stn, rest barren, fr cup odr, incr Chrt., aa, scatt Sh., gy

Dol., cm, vfnxn, mod hd, most dns, some wpr intrxn & vug por, feww SSFO, tr blk stn, wk odr, Chrt, aa

Dol., aa, wshows aa, incr Chrt., wht, spic, shp

DST #1 4468-4543 (Mississippian)

30-30-30-30

IF: Built to 1 1/4"

IS: No blow

FF: No blow, flushed tool, no help

FS: No blow

Recovery:

30' OSM (2%O, 98%M)

FP: 25-25; 30-35

SIP: 352-178

HP: 2257-2218

BHT: 115

Gravity: -

Chlor: ---

DST #2 4540-4568 (Mississippian)

30-30-60-60

IF: Built to 8 3/4"

IS: No blow

FF: Built to 10"

FS: No blow

Recovery:

10' CO (100%O)

258' MW wshowoil (90%W, 10%M)

268' TF

FP: 31-81; 87-134

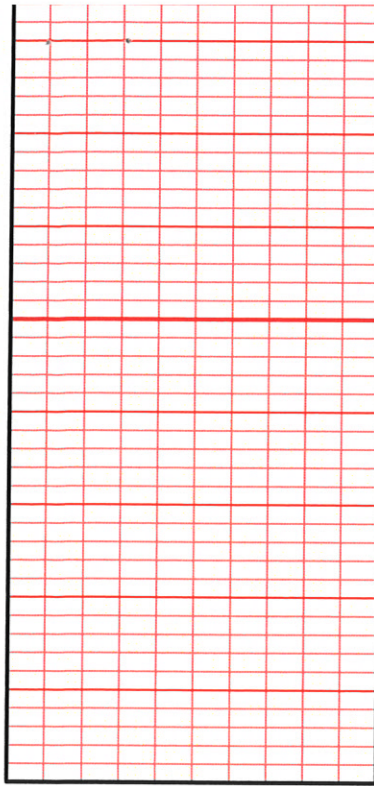
SIP: 884-930

HP: 2373-2327

BHT: 124

Gravity: -

Chlor: 20000

50

4700

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