

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
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	CB FRYE 2
Doc ID	1462251

Tops

Name	Top	Datum
Anhy.	1894	(+ 561)
Base Anhy.	1932	(+ 523)
Heebner	3782	(-1327)
Lansing	3822	(-1367)
Muncie Creek	3974	(-1519)
BKC	4114	(-1659)
Marmaton	4160	(-1705)
Pawnee	4242	(-1787)
Ft. Scott	4320	(-1865)
Cherokee	4343	(-1888)
Miss. Lime	4420	(-1965)
LTD	4528	(-2073)



APR 09 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: 4/6/2019
 Invoice # 1401
 P.O.#:
 Due Date: 5/6/2019
 Division: *Russell*

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 C B FRYE 2 SEC 23-15-25

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
<i>Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:</i>	\$	(103.74)
<hr/>		
SubTotal for Taxable Items:	\$	4,045.79
SubTotal for Non-Taxable Items:	\$	-
<hr/>		
Total:	\$	4,045.79
Tax:	\$	323.66
<hr/>		
Amount Due:	\$	4,369.45
Applied Payments:		
Balance Due:	\$	4,369.45

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.
 ©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. 1401

Date	4-6-19	Sec.	23	Twp.	15	Range	25	County	Trego	State	KS	On Location		Finish	1:15p
------	--------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	-------

Lease CB Frye Well No. 2 Location Wakeney 20s CCRD 10W Winto

Contractor WW #2 Owner To Quality Oilwell Cementing, Inc.

Type Job Rotary Plug 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 7 7/8 T.D. 4530 Charge To Palomino Petroleum

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 240 60/40 4 1/2 1/4 #10

Meas Line _____ Displace _____

EQUIPMENT

Pumptrk	No. <u>20</u>	Cement Helper <u>Craig</u>	Common <u>144</u>
Bulktrk	No. _____	Driver <u>TONY</u>	Poz. Mix <u>96</u>
Bulktrk	No. <u>15</u>	Driver <u>SACK</u>	Gel. <u>9</u>
			Calcium _____

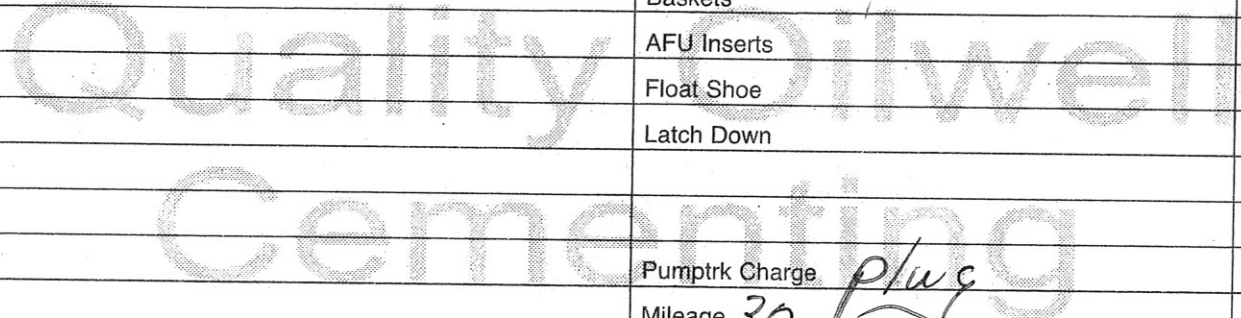
JOB SERVICES & REMARKS

Remarks:	Hulls _____
Rat Hole <u>30SK</u>	Salt _____
Mouse Hole _____	Flowseal <u>60#</u>
Centralizers _____	Kol-Seal _____
Baskets _____	Mud CLR 48 _____
D/V or Port Collar _____	CFL-117 or CD110 CAF 38 _____
<u>1 1/2</u> <u>1925</u> <u>50SK</u>	Sand _____
<u>2 1/2</u> <u>900</u> <u>100SK</u>	Handling <u>249</u>
<u>3 1/2</u> <u>250</u> <u>50SK</u>	Mileage _____
<u>4 1/2</u> <u>40</u> <u>10SK</u>	Float Equipment <u>8 1/8 In Hole Plug</u>

	Guide Shoe _____
	Centralizer _____
	Baskets _____
	AFU Inserts _____
	Float Shoe _____
	Latch Down _____

Pumptrk Charge plug
Mileage 30

X Signature <u>[Signature]</u>	Tax _____
	Discount _____
	Total Charge _____



GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

RECEIVED
APR 05 2019

Invoice

Date	Invoice #
4/2/2019	0013405

Bill To
PALOMINO PETROLEUM INC 4924 SE 84TH ST NEWTON,KS 67114

P.O. No.	Terms	Project
CB FRYE #2	Due on receipt	

Quantity	Description	Rate	Amount
150	COMMON CEMENT	16.50	2,475.00
5	CALCIUM-CHLORIDE	80.00	400.00
3	BENTONITE GEL	30.00	90.00
158	HANDLING	1.90	300.20
	BULK MILEAGE	450.00	450.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	850.00	850.00
35	HEAVY EQUIPMENT. ONE WAY	6.50	227.50
35	LMV- ONE WAY	2.75	96.25
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		
	NESS CO SALES TAX	7.50%	0.00

Thank you for your business.

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

Total \$4,888.95

GLOBAL OIL FIELD SERVICES, LLC 0013405

REMIT TO: 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>3-29-19</u>	SEC. <u>23</u>	TWP. <u>15S</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>4:00am</u>	
LEASE <u>CB-frye</u>	WELL#	LOCATION <u>S of Wagonway 15-20 (CRD) NESS</u>	COUNTY <u>NESS</u>	STATE <u>KS</u>				
OLD OR <u>NEW</u> (CIRCLE ONE)		<u>16w Wagonway</u>						

CONTRACTOR WW Drilling Rig # 2
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D.
CASING SIZE 8 7/8 DEPTH 209'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 2.5
PERFS
DISPLACEMENT

OWNER Palomino Petroleum
CEMENT AMOUNT ORDERED 150 5/8 Con 3/4" 26601

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Coolv</u>
# <u>409</u>	HELPER <u>JASON</u>
BULK TRUCK	
# <u>379</u>	DRIVER <u>TOM</u>
BULK TRUCK	
#	DRIVER

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE	@	
		TOTAL

REMARKS:

Run casing - 5' hooked to Rig
Make circulation hooked to tank
Pumped 150 5/8 + displaced 113 1/2 lbs
1 1/2" + shut in

Cement D.D. Circulate to Surface

CHARGE TO: Palomino Petroleum
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE		
DEPTH OF JOB		
PUMP TRUCK CHARGE		
EXTRA FOOTAGE	@	
MILEAGE	@	
MANIFOLD	@	
	@	
	@	
		TOTAL

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

PLUG & FLOAT EQUIPMENT		
	@	
	@	
	@	
	@	
	@	
		TOTAL

PRINTED NAME _____
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc.**

4924 SE 84th St
Newton KS 67114

ATTN: Eli Felts

CB Frye #2

23-15s-25w Trego,KS

Start Date: 2019.04.03 @ 14:10:14

End Date: 2019.04.03 @ 22:15:14

Job Ticket #: 64920 DST #: 1

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

Printed: 2019.04.09 @ 15:22:43

Palomino Petroleum Inc. 23-15s-25w Trego,KS CB Frye #2 DST # 1 LKC J 2019.04.03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

23-15s-25w Trego,KS

4924 SE 84th St
New ton KS 67114

CB Frye #2

Job Ticket: 64920

DST#: 1

ATTN: Eli Felts

Test Start: 2019.04.03 @ 14:10:14

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:01:14

Time Test Ended: 22:15:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: **4018.00 ft (KB) To 4042.00 ft (KB) (TVD)**

Total Depth: 4042.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2455.00 ft (KB)

2450.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8931 Inside

Press@RunDepth: 316.37 psig @ 4019.00 ft (KB)

Start Date: 2019.04.03

End Date: 2019.04.03

Start Time: 14:10:19

End Time: 22:15:13

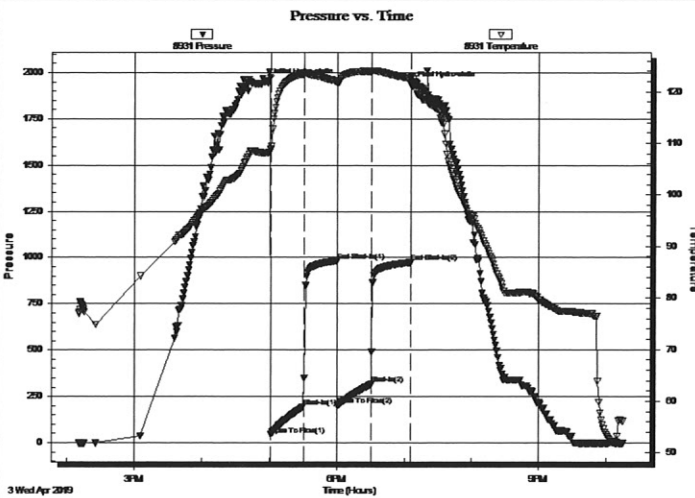
Capacity: 8000.00 psig

Last Calib.: 2019.04.03

Time On Btm: 2019.04.03 @ 16:57:29

Time Off Btm: 2019.04.03 @ 19:05:29

TEST COMMENT: IF: BOB in 7 mins. Built to 41.52".
 IS: Blow Back started 7 mins into Shut In. Built to 2.97".
 FF: BOB in 9 mins. Built to 31.45".
 FSI: Blow Back started in 5 mins into the Shut In. Built to 1.84".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.73	108.21	Initial Hydro-static
4	44.61	108.79	Open To Flow (1)
34	195.44	123.42	Shut-In(1)
63	982.71	121.98	End Shut-In(1)
63	201.44	121.67	Open To Flow (2)
93	316.37	124.00	Shut-In(2)
128	974.38	122.59	End Shut-In(2)
128	1933.24	122.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOMW 3% m 5% o 92% w	0.46
432.00	OSMW 2% m 98% w	5.68
186.00	GVSOMCW 2% g 5% o 5% m 88% w	2.61
40.00	CO 100% o	0.56
0.00	93' G.I.P. 100% g	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

23-15s-25w Trego,KS

4924 SE 84th St
New ton KS 67114

CB Frye #2

Job Ticket: 64920

DST#: 1

ATTN: Eli Felts

Test Start: 2019.04.03 @ 14:10:14

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:01:14

Time Test Ended: 22:15:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: **4018.00 ft (KB) To 4042.00 ft (KB) (TVD)**

Reference Elevations: 2455.00 ft (KB)

Total Depth: 4042.00 ft (KB) (TVD)

2450.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8792 Outside

Press@RunDepth: psig @ 4019.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.03

End Date: 2019.04.03

Last Calib.: 2019.04.03

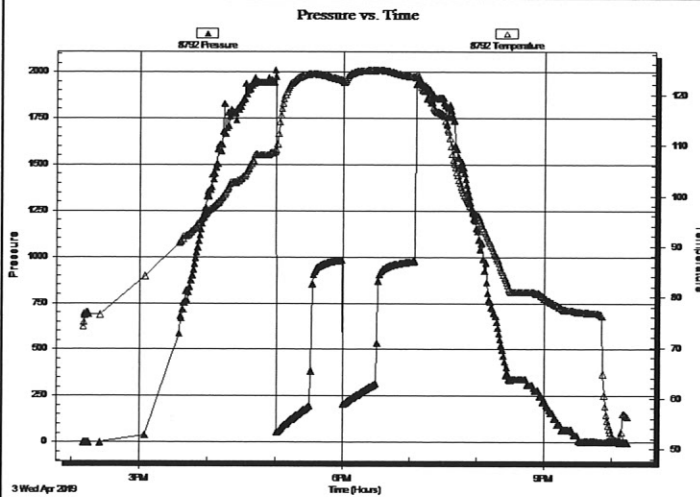
Start Time: 14:10:07

End Time: 22:15:01

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 7 mins. Built to 41.52".
IS: Blow Back started 7 mins into Shut In. Built to 2.97".
FF: BOB in 9 mins. Built to 31.45".
FS: Blow Back started in 5 mins into the Shut In. Built to 1.84".



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOMW 3%m 5%o 92%w	0.46
432.00	OSMV 2%m 98%w	5.68
186.00	GVSOMCW 2%g 5%o 5%m 88%w	2.61
40.00	CO 100%o	0.56
0.00	93' G.I.P. 100%g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc.

23-15s-25w Trego, KS

4924 SE 84th St
New ton KS 67114

CB Frye #2

Job Ticket: 64920

DST#: 1

ATTN: Eli Felts

Test Start: 2019.04.03 @ 14:10:14

Tool Information

Drill Pipe:	Length: 3888.00 ft	Diameter: 3.80 inches	Volume: 54.54 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 55.45 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4018.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3991.00	
Shut In Tool	5.00			3996.00	
Hydraulic tool	5.00			4001.00	
Jars	5.00			4006.00	
Safety Joint	3.00			4009.00	
Packer	4.00			4013.00	28.00 Bottom Of Top Packer
Packer	5.00			4018.00	
Stubb	1.00			4019.00	
Recorder	0.00	8931	Inside	4019.00	
Recorder	0.00	8792	Outside	4019.00	
Perforations	20.00			4039.00	
Bullnose	3.00			4042.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.

23-15s-25w Trego,KS

4924 SE 84th St
New ton KS 67114

CB Frye #2

Job Ticket: 64920

DST#: 1

ATTN: Eli Felts

Test Start: 2019.04.03 @ 14:10:14

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.99 in³

Resistivity: 5900.00 ohm.m

Salinity: ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

ft

ft

psig

Oil API:

Water Salinity:

deg API

15000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VSOMW 3%m 5%o 92%w	0.457
432.00	OSMW 2%m 98%w	5.675
186.00	GV SOMCW 2%g 5%o 5%m 88%w	2.609
40.00	CO 100%o	0.561
0.00	93' G.I.P. 100%g	0.000

Total Length: 718.00 ft Total Volume: 9.302 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial#: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity is 29 @ 66 Degrees. Corrected to 28.4 @ 60 Degrees.
RW .66 @ 55.3 Degrees = 13,000 Chlorides.

Serial #: 8931

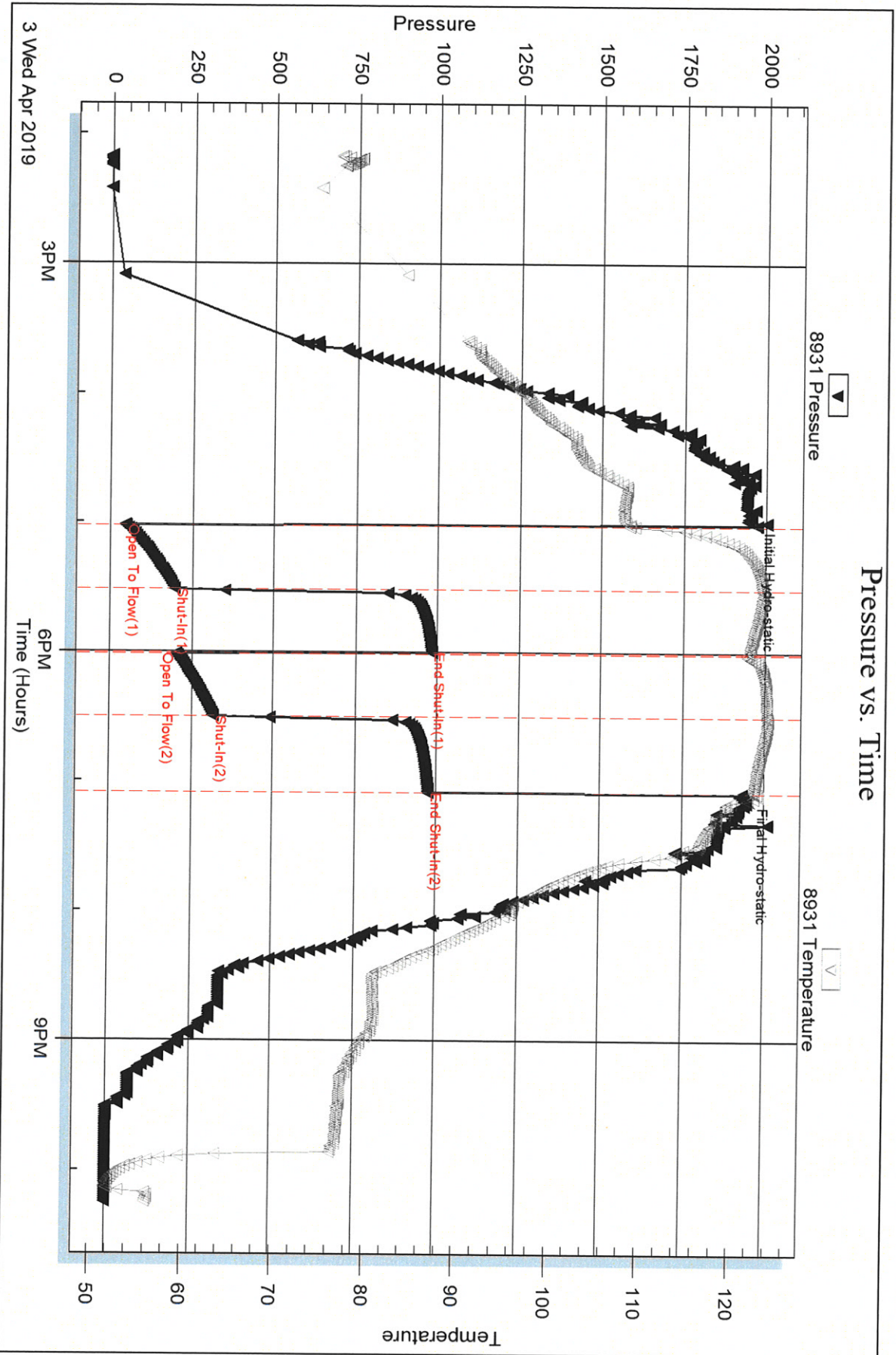
Inside

Palomino Petroleum Inc.

CB Fye #2

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64920

Printed: 2019.04.09 @ 15:22:44

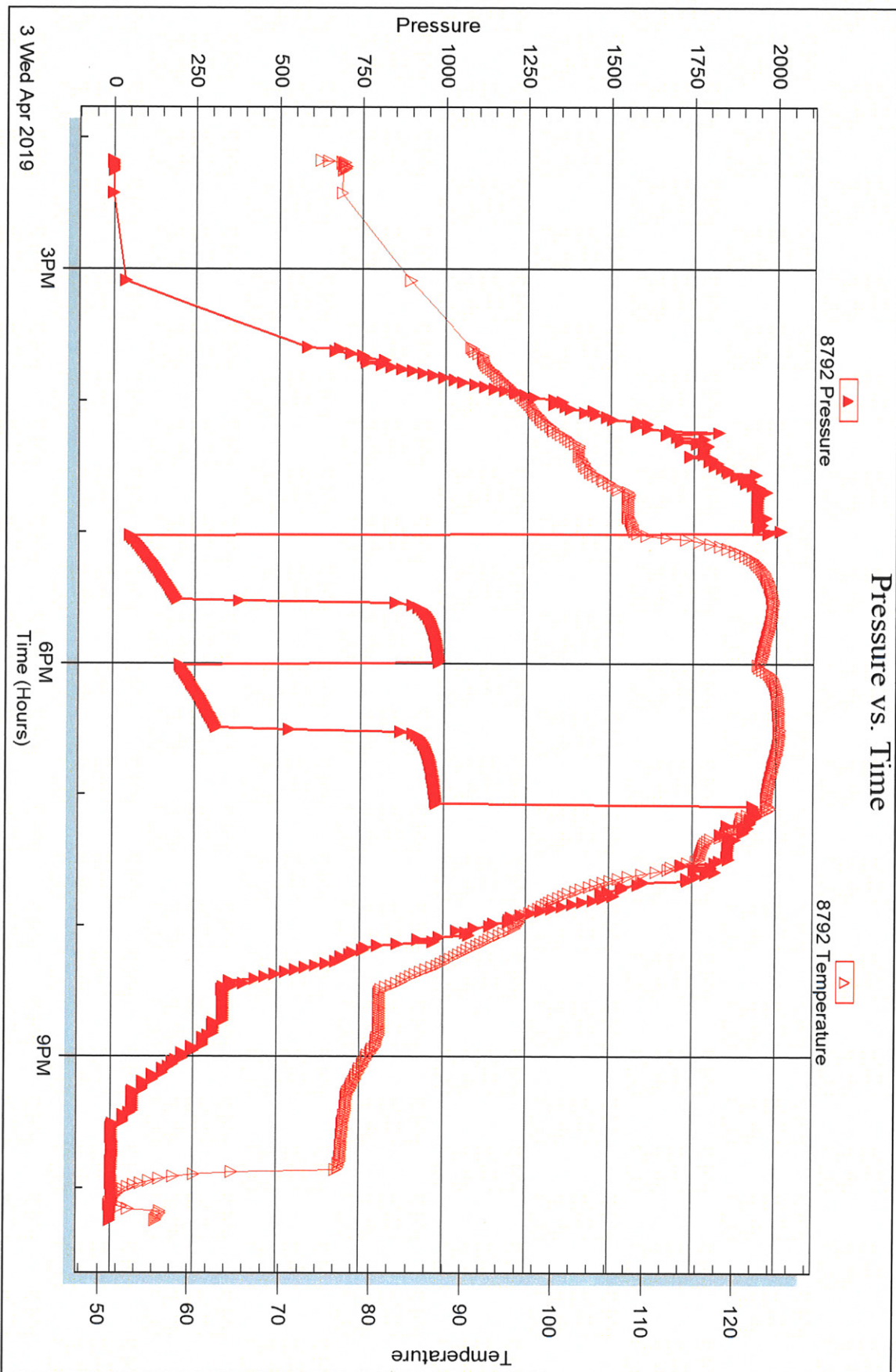
Serial #: 8792

Outside

Palomino Petroleum Inc.

CB Frye #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64920

Printed: 2019.04.09 @ 15:22:44



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc.**

4924 SE 84th St
Newton KS 67114

ATTN: Eli Felts

CB Frye #2

23-15s-25w Trego,KS

Start Date: 2019.04.05 @ 20:51:52

End Date: 2019.04.06 @ 03:55:52

Job Ticket #: 64921 DST #: 2

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

Printed: 2019.04.09 @ 15:21:14

Palomino Petroleum Inc. 23-15s-25w Trego,KS CB Frye #2 DST # 2 Mississippi 2019.04.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

23-15s-25w Trego, KS

4924 SE 84th St
New ton KS 67114

CB Frye #2

Job Ticket: 64921

DST#: 2

ATTN: Eli Felts

Test Start: 2019.04.05 @ 20:51:52

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:42:37

Time Test Ended: 03:55:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: **4283.00 ft (KB) To 4466.00 ft (KB) (TVD)**

Reference Elevations: 2455.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

2450.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8931

Inside

Press@RunDepth: 68.78 psig @ 4292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.05

End Date: 2019.04.06

Last Calib.: 2019.04.06

Start Time: 20:51:57

End Time: 03:55:51

Time On Btm: 2019.04.05 @ 23:38:22

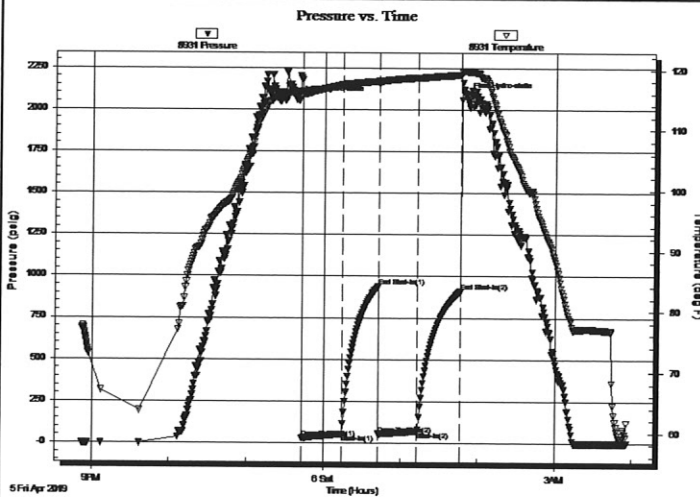
Time Off Btm: 2019.04.06 @ 01:50:22

TEST COMMENT: IF: Weak blow . Built to 2 1/4".

IS: No blow .

FF: Weak blow . Built to 1".

FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2056.59	116.33	Initial Hydro-static
5	27.19	115.82	Open To Flow (1)
36	52.68	117.54	Shut-In(1)
64	939.82	118.12	End Shut-In(1)
64	54.74	117.66	Open To Flow (2)
95	68.78	118.65	Shut-In(2)
128	910.99	119.18	End Shut-In(2)
132	2077.54	119.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w / skim of oil 1%o 99m	0.46
60.00	Mud w / oil spots 100%m	0.46

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

23-15s-25w Trego, KS

4924 SE 84th St
New ton KS 67114

CB Frye #2

Job Ticket: 64921 **DST#: 2**

ATTN: Eli Felts

Test Start: 2019.04.05 @ 20:51:52

GENERAL INFORMATION:

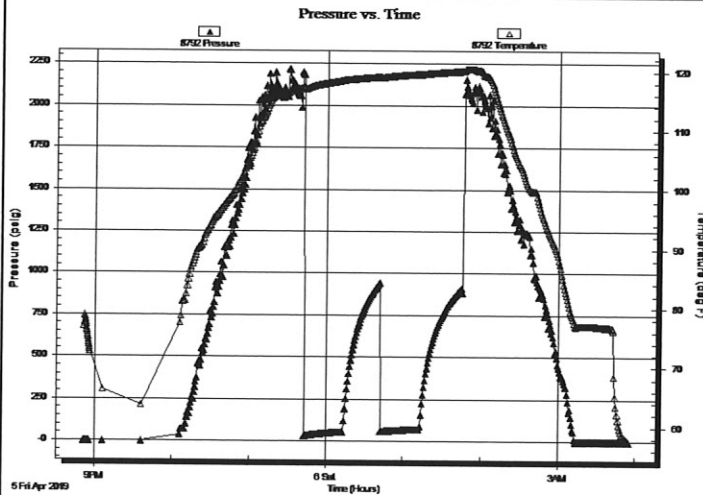
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:42:37
 Time Test Ended: 03:55:52
 Interval: **4283.00 ft (KB) To 4466.00 ft (KB) (TVD)**
 Total Depth: 4530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 2455.00 ft (KB)
 2450.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8792

Outside

Press@RunDepth: psig @ 4292.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.05 End Date: 2019.04.06 Last Calib.: 2019.04.06
 Start Time: 20:51:19 End Time: 03:55:13 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow . Built to 2 1/4".
 IS: No blow .
 FF: Weak blow . Built to 1".
 FS: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w / skim of oil 1% o 99m	0.46
60.00	Mud w / oil spots 100%m	0.46

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

23-15s-25w Trego,KS

4924 SE 84th St
New ton KS 67114

CB Frye #2

Job Ticket: 64921

DST#: 2

ATTN: Eli Felts

Test Start: 2019.04.05 @ 20:51:52

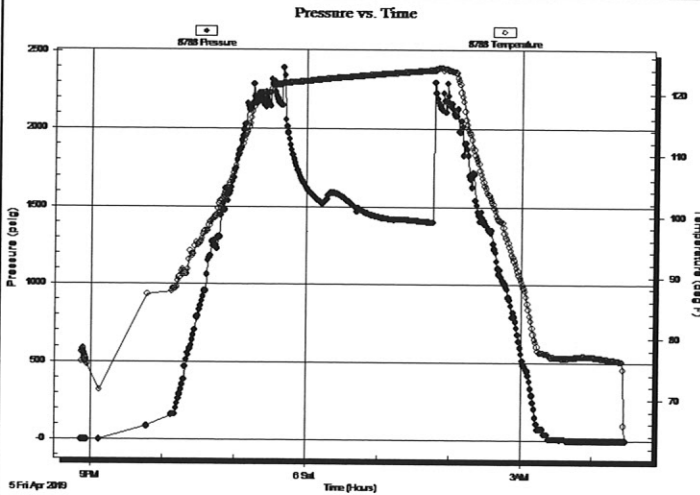
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:42:37
 Time Test Ended: 03:55:52
 Interval: **4283.00 ft (KB) To 4466.00 ft (KB) (TVD)**
 Total Depth: 4530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 2455.00 ft (KB)
 2450.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8788 Below (Straddle)

Press@RunDepth: psig @ 4490.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.05 End Date: 2019.04.06 Last Calib.: 2019.04.06
 Start Time: 20:51:58 End Time: 04:28:07 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow . Built to 2 1/4".
 ISI: No blow .
 FF: Weak blow . Built to 1".
 FSI: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w / skim of oil 1%o 99m	0.46
60.00	Mud w / oil spots 100%m	0.46

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc.

23-15s-25w Trego,KS

4924 SE 84th St
New ton KS 67114

CB Frye #2

Job Ticket: 64921

DST#: 2

ATTN: Eli Felts

Test Start: 2019.04.05 @ 20:51:52

Tool Information

Drill Pipe:	Length: 4165.00 ft	Diameter: 3.80 inches	Volume: 58.42 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4283.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	245.00 ft			
Tool Length:	273.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Straddle Test

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4256.00	
Shut In Tool	5.00			4261.00	
Hydraulic tool	5.00			4266.00	
Jars	5.00			4271.00	
Safety Joint	3.00			4274.00	
Packer	5.00			4279.00	28.00 Bottom Of Top Packer
Packer	4.00			4283.00	
Stubb	1.00			4284.00	
Perforations	7.00			4291.00	
Change Over Sub	1.00			4292.00	
Recorder	0.00	8931	Inside	4292.00	
Recorder	0.00	8792	Outside	4292.00	
Blank Spacing	157.00			4449.00	
Change Over Sub	1.00			4450.00	
Perforations	11.00			4461.00	
Blank Off Sub	1.00			4462.00	
Packer	3.00			4465.00	245.00 Tool Interval
Packer	3.00			4468.00	
Stubb	1.00			4469.00	
Perforations	20.00			4489.00	
Change Over Sub	1.00			4490.00	
Recorder	0.00	8788	Below	4490.00	
Blank Spacing	31.00			4521.00	
Change Over Sub	1.00			4522.00	
Perforations	3.00			4525.00	
Bullnose	3.00			4528.00	1000272.00 Bottom Packers & Anchor

Total Tool Length: 273.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.
4924 SE 84th St
New ton KS 67114
ATTN: Eli Felts

23-15s-25w Trego,KS
CB Frye #2
Job Ticket: 64921 **DST#: 2**
Test Start: 2019.04.05 @ 20:51:52

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:	5000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 5000.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud w / skim of oil 1%o 99m	0.457
60.00	Mud w / oil spots 100%m	0.457

Total Length: 120.00 ft Total Volume: 0.914 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial#: None
 Laboratory Name: Laboratory Location:
 Recovery Comments:

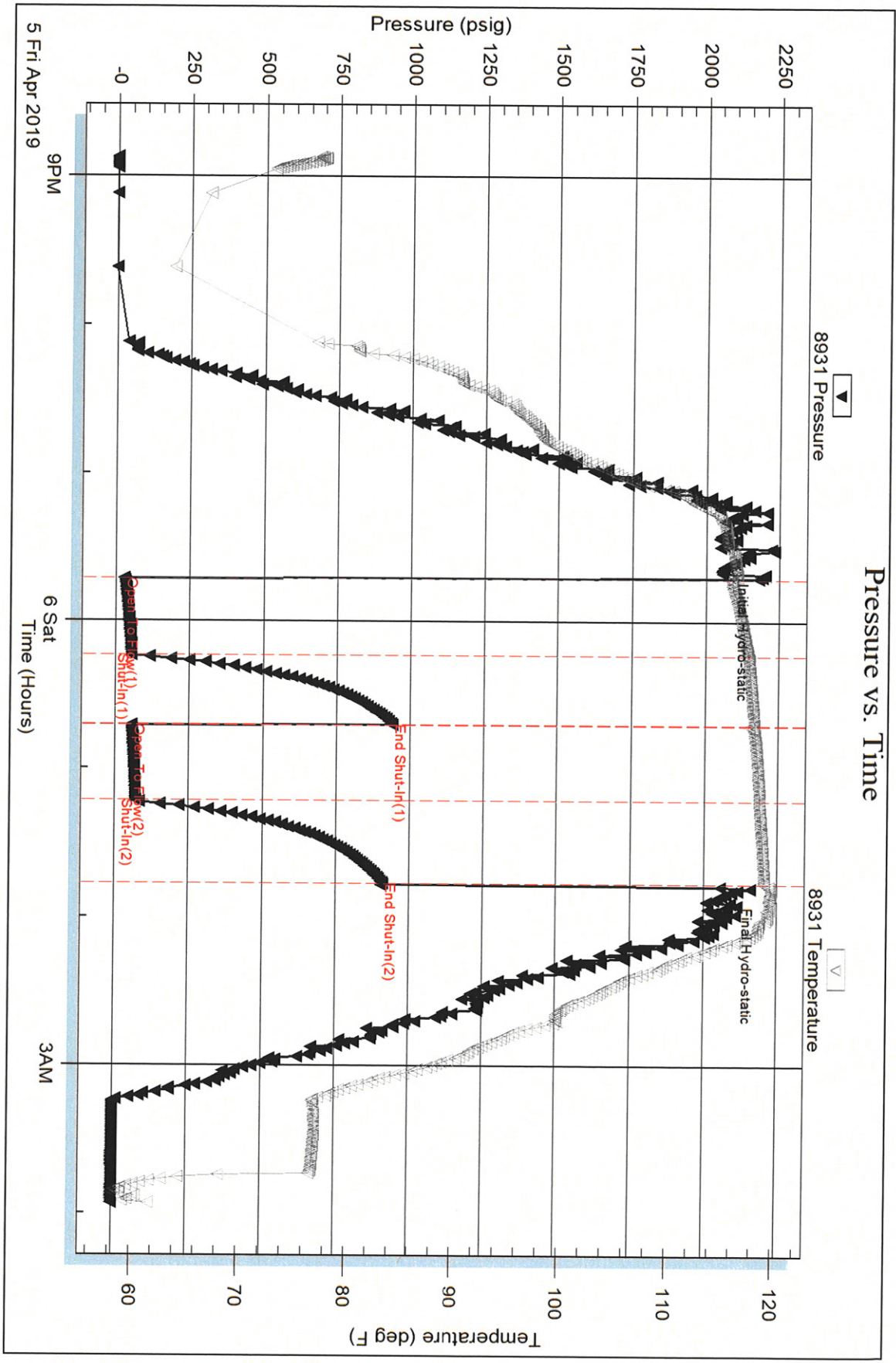
Serial #: 8931

Inside

Palomino Petroleum Inc.

CB Frye#2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64921

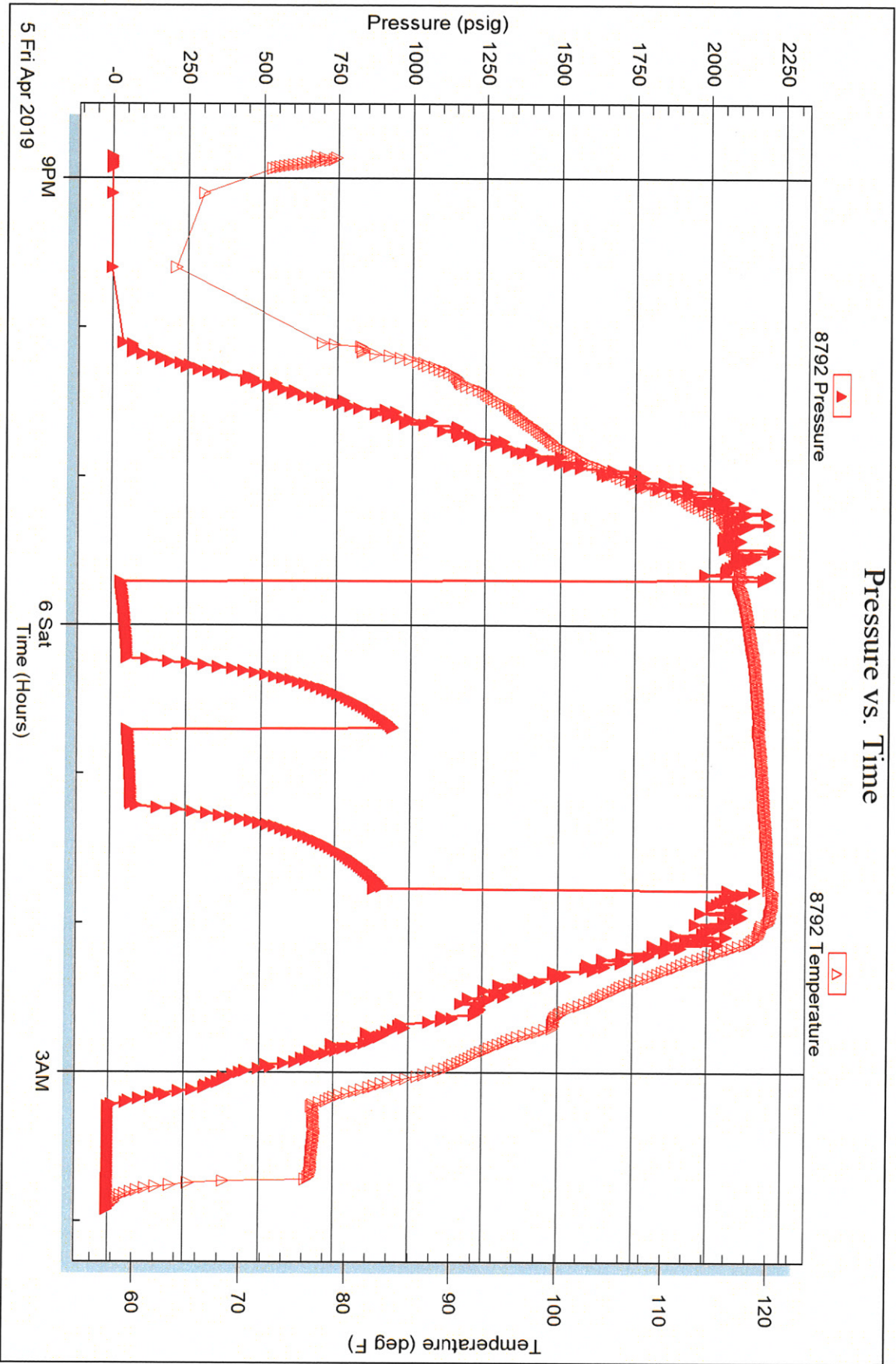
Printed: 2019.04.09 @ 15:21:15

Serial #: 8792

Outside Palomino Petroleum Inc.

CB Frye #2

DST Test Number: 2



Triolite Testing, Inc

Ref. No: 64921

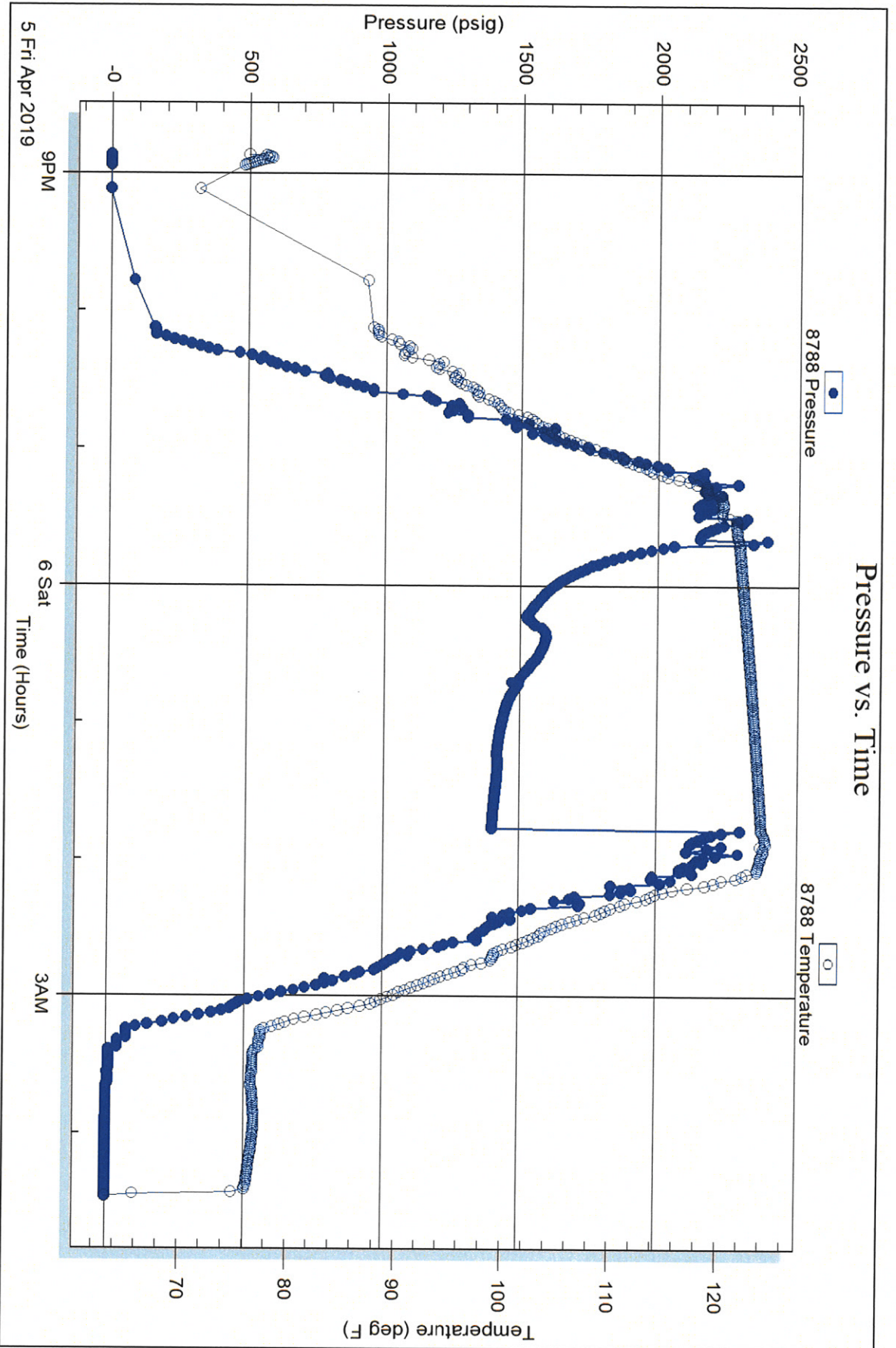
Printed: 2019.04.09 @ 15:21:15

Serial #: 8788

Below (Stratton) Petroleum Inc.

CB Frye #2

DST Test Number: 2



Tribolite Testing, Inc

Ref. No: 64921

Printed: 2019.04.09 @ 15:21:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64920

Well Name & No. CB Frye #2 Test No. 1 Date 4/3/19
 Company Palomino Petroleum Inc. Elevation 2455 KB 2450 GL
 Address 4924 SE 84th St. Newton, KS, 67114
 Co. Rep / Geo. Eli Felts Rig WW#2
 Location: Sec. 23 Twp 15s Rge. 25w Co. Trego Co. State KS.

Interval Tested 4018 - 4042 Zone Tested KC "J" zone
 Anchor Length 24' Drill Pipe Run 3888' Mud Wt. 9.15
 Top Packer Depth 4013 Drill Collars Run 120' Vis 31
 Bottom Packer Depth 4018 Wt. Pipe Run 2 WL 8.0
 Total Depth 4042 Chlorides 5,900 ppm System LCM 1-2*

Blow Description IF: ~~Weak~~ Strong blow. B.O.B. in 7 mins. BurtH to 41.52"
ISI: Weak blow. BurtH to 2.97"
FF: Strong blow. B.O.B. 9 mins. BurtH to 31.45"
FST: Weak blow. BurtH to 1.84"

Rec	Feet of	%gas	%oil	%water	%mud
<u>93'</u>	<u>GIIP</u>	<u>100</u>			
<u>40'</u>	<u>CO</u>		<u>100</u>		
<u>186'</u>	<u>GVSOMCW</u>	<u>2</u>	<u>5</u>	<u>88</u>	<u>5</u>
<u>432'</u>	<u>OSMW</u>			<u>98</u>	<u>2</u>
<u>60'</u>	<u>VSOMW</u>		<u>5</u>	<u>92</u>	<u>3</u>

Rec Total 718' Fluid BHT _____ Gravity 28.4 API RW 466 @ 55.3 °F Chlorides 13,000 ppm

(A) Initial Hydrostatic <u>1947</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>1240</u>
(B) First Initial Flow <u>45</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1410</u>
(C) First Final Flow <u>195</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1701</u>
(D) Initial Shut-In <u>983</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1904</u>
(E) Second Initial Flow <u>201</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2215</u>
(F) Second Final Flow <u>316</u>	<input checked="" type="checkbox"/> Mileage <u>(184) 184</u>	Comments _____
(G) Final Shut-In <u>974</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> EM Tool _____
(H) Final Hydrostatic <u>1933</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copes _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1809</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't <u>Yes</u>
	Sub Total <u>1809</u>	

Approved By Eli Felts Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for (damages 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.

CamScanner



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64921

Well Name & No. CB Frye #2 Test No. 2 Date 4/5/19
 Company Palomino Petroleum Inc. Elevation 2455 KB 2450 GL
 Address 4924 SE 84th St. Newton, KS, 67114
 Co. Rep / Geo. Eli Felts Rig WW #2
 Location: Sec. 23 Twp 15S Rge. 25W Co. Tree Co. State KS.

Interval Tested 4289 - 4466 Zone Tested Mississippi
 Anchor Length 183' / TA: 1 62 Drill Pipe Run 4165 Mud Wt. 9.3
 Top Packer Depth 4280 Drill Collars Run 120 Vls 62
 Bottom Packer Depth 4285 Wt. Pipe Run 8 WL 8.8
 Total Depth 4530 Chlorides 5000 ppm System LCM 1st

Blow Description IF: Weak blow. Built to 2 1/4"
ISI: No blow.
FP: Weak blow. Built to 1"
FST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
60	OSM				100
60	OSM		1		99

Rec Total 120' Fluid BHT 116° Gravity N/A API RW N/A @ — °F Chlorides 5000 ppm

(A) Initial Hydrostatic <u>2057</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>1830</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2051</u>
(C) First Final Flow <u>53</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2342</u>
(D) Initial Shut-In <u>940</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0152</u>
(E) Second Initial Flow <u>55</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0355</u>
(F) Second Final Flow <u>69</u>	<input checked="" type="checkbox"/> Mileage <u>184'</u>	Comments _____
(G) Final Shut-In <u>911</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2077</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	_____

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

Shale Packer
 Extra Packer
 Extra Recorder 1.5d 8.25h
 Day Standby 1 (4 hrs)
 Accessibility
 Sub Total 2409

EM Tool
 Ruined Shale Packer
 Ruined Packer
 Extra Copes
 Sub Total 275
 Total 2684

Eli Felts

Approved By _____

Our Representative Matthew Smith

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.



PALOMINO PETROLEUM, INC.

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

Well Name: CB Fry #2
API: 15-195-23079
Location: NE - SE - NW - SW of Sec 23 15S 25W
License Number: 30742
Spud Date: 3/29/2019
Surface Coordinates: 1665' FSL & 1120' FWL
Region: Trego County, KS
Drilling Completed: 4/05/2019

Bottom Hole Same as surface coordinates
Coordinates:
Ground Elevation (ft): 2450' K.B. Elevation (ft): 2455'
Logged Interval (ft): 3600' To: 4530' Total Depth (ft): 4530'
Formation: Mississippian @ RTD
Type of Drilling Fluid: Mud-Co. Chemical Drispac

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: Eli J. Felts
Company: Gravity Oil, LLC
Address: 954 Prairie Park Road
Wichita, KS 67218
E: ejfelts47@gmail.com, C: 316.204.5059

Formation Tops

SAMPLE TOPS

ANHY	1897 (+568)
BASE ANHY	1936 (+519)
HEEBNER	3785 (-1330)
LANSING	3825 (-1370)
MUNCIE CK.	3980 (-1525)
B/KC	4114 (-1659)
MARMATON	4162 (-1707)
PAWNEE	4250 (-1795)
FT. SCOTT	4323 (-1868)
CHEROKEE	4346 (-1891)
MISS LIME	4422 (-1967)
MISS DOL	4442 (-1987)
RTD	4530 (-2075)

LOG TOPS

ANHY	1894 (+561)
BASE ANHY	1932 (+523)
HEEBNER	3782 (-1327)
LANSING	3822 (-1367)
MUNCIE CK.	3974 (-1519)
B/KC	4114 (-1659)
MARMATON	4160 (-1705)
PAWNEE	4242 (-1787)
FT. SCOTT	4320 (-1865)
CHEROKEE	4343 (-1888)
MISS LIME	4420 (-1965)
MISS DOL	4442 (-1987)
LTD	4528 (-2073)

Drilling Report

3/29/19
MIRU WW Drilling, L.L.C. rig #2. Spud @ 10:45 p.m. Set surface pipe.

3/30/19
WOC

3/31/19
Drilling @ 1915'

4/1/19
Drilling @ 3060'

4/2/19
Drilling @ 3720'
TOOH @ 3803'. Change bearings on mud-pump.
~13 hours stop to start drilling.

4/3/19

4/3/19
 Drilling @ 3986'
 Ran DST #1 (KC "J" Zone)

4/4/19
 Drilling @ 4130'

4/5/19
 Drilling @ 4460'
 Run Open Hole Logs (Gemini)
 DST #2 Straddle Test

4/6/19
 LDDP @ 4530'. Plugged and abandoned.

Drill Stem Tests

DST #1 KC "J" Zone
 Interval: 4018'-4042'
 (24') Anchor
 30-30-30-30
 IF: BOB 7" (41")
 ISI: built to 3"
 FF: BOB 9" (32")
 FSI: built to 1.84"
 SIP: 983-974#
 IF: 45-195#
 FF: 201-316#
 Hydrostatic: 1947-1933#
 BHT: 123F
 Grav: 28.4 API @ 60 Degrees

Recovery:
 718' TF + 93' GIP
 40' CO
 186' GVSOMCW (2% G 5% O 88%W 5% M)
 432' OSMW (98% W 2% M)
 60' VSOMW (5% O 92% W 3% M)

DST #2 Mississippi Straddle
 Interval: 4283'-4466'
 (183') Anchor
 30-30-30-30
 IF: wb built to 2.25"
 ISI: no bb
 FF: wb built to 1"
 FSI: no bb
 SIP: 940-911#
 IF: 27-53#
 FF: 55-69#
 Hydrostatic: 2057-2078#
 BHT: 120F






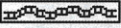




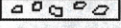







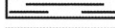
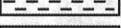

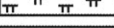
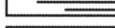




Recovery:
 120' TF
 60' Mud
 60' OSM (1% O 99%M)

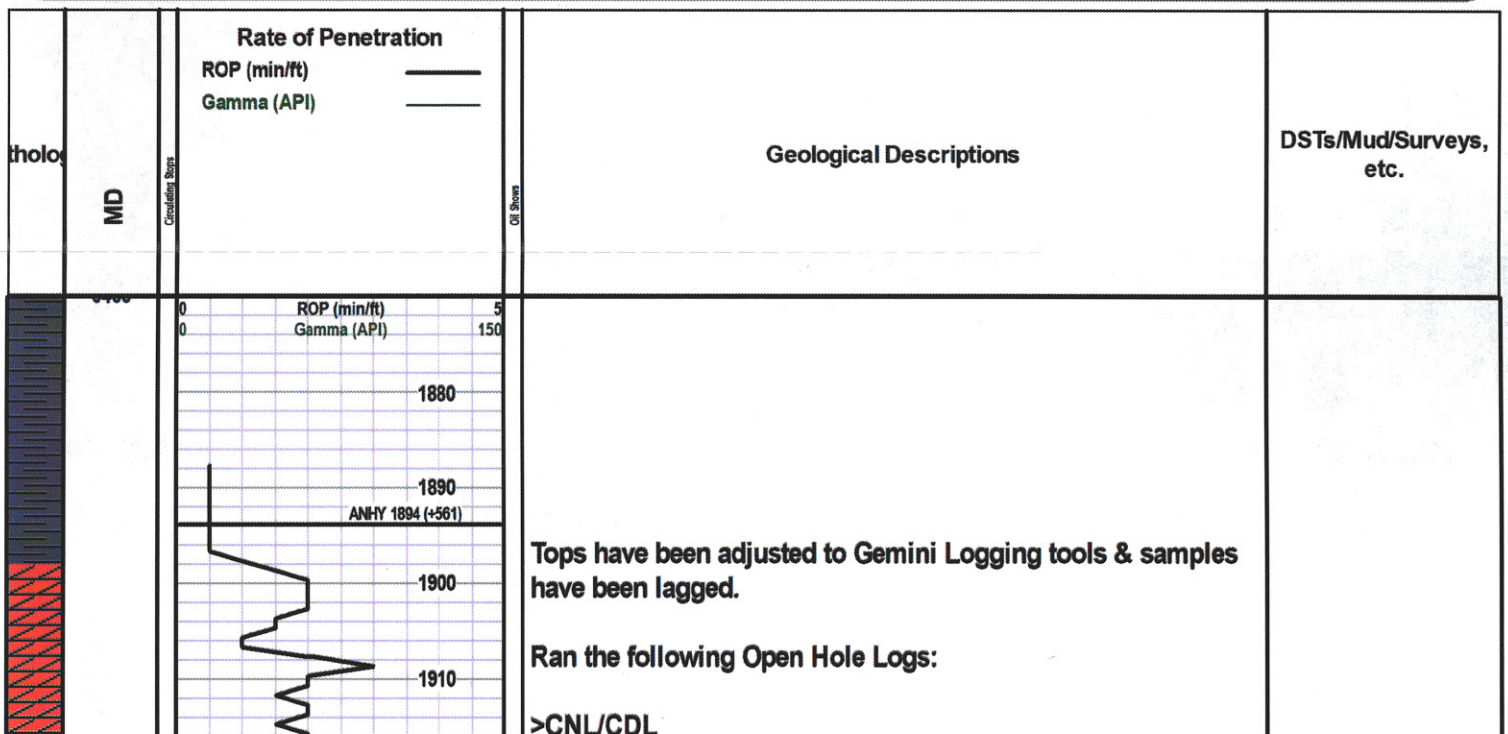
Pipe Setting

Ran 5 jts. new 8 5/8ths 23# surface pipe set @ 209' & cemented w/ 150 sacks Common, 2%gel, 3%cc. Cement did circulate. Plug down @ 4:00 A.M. 3/30/19.

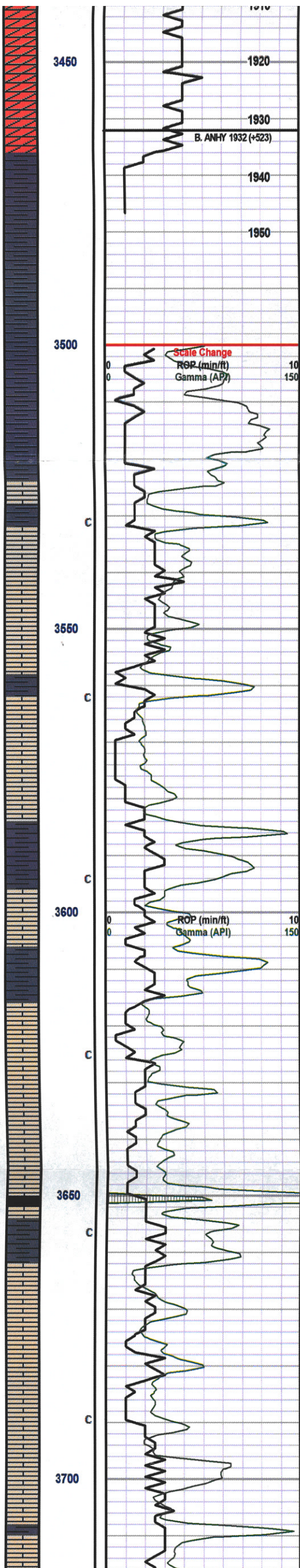
No production casing run. D&A.

ROCK TYPES

 Anhy	 Congl	 Lmst dark	 Salt	 Slstst
 Bent	 Dol	 Lmst tan	 Shale 2	 Ss
 Brec	 Gyp	 Lmst	 Shale gry	 Till
 Cht	 Igne	 Meta	 Shale 1	
 Clyst	 Granite 2	 Mrlst	 Shcol	
 Coal	 Granite	 Quartz	 Shgy	



>CNL/CDL
 >Dual Induction
 >Micro Resistivity



LS - crm grey, med xln, foss, argillaceous to chalky; sm loose wht chalk; few SH - grey

LS - crm grey, mst med xln; sl sandy to foss txt, abdt foss; poor intrafoss poros, chalky to argillaceous mtx; soft; sub shaley ip

LS - crm, med xln, sl sandy txt to foss ip; soft crush; abundant chalk

LS - crm, med xln; mst aa, few trans gry-dark grey, fn xln; flood SH - gry, soft to med frm

LS - crm to gry, mst med xln, sandy to foss txt w/ abt chalk; few SH - lt gry, soft (dissolves) to med grey, med frm; tray washes grey

Chalk - flood white, gummy, sticky, washes wht

SH - blk, carb; sl dns; ~50% chalk remains

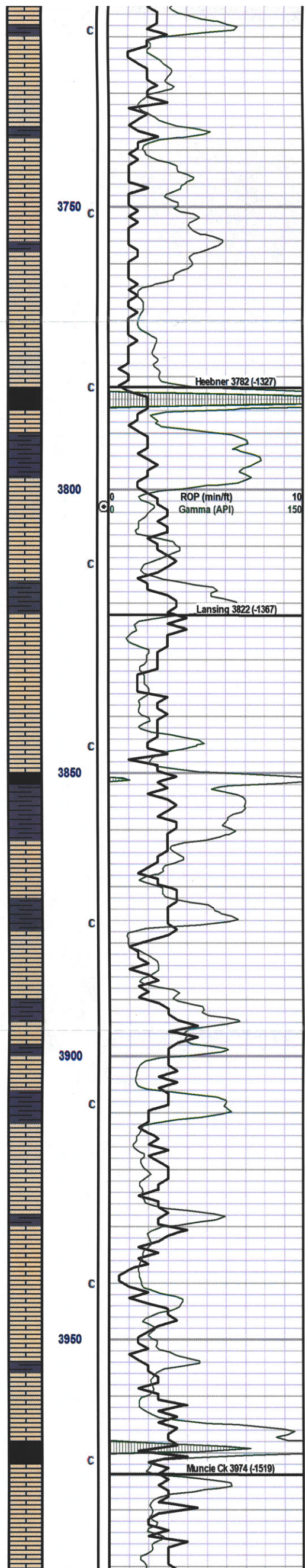
LS - cream, med xln, sandy to chalky; few pcs w/ partial stn & ques residual oil; no live oil present; no odor ns; ~30% gummy chalk remains

LS - crm to wht, lt grey, fine xln; smooth txture, platy & lithographic; chalky on break; no vis porosity

LS - cream to wht, few lt grey to green hue; mst fine xln; aa, trans med xln w/ sm foss to sandy txture; trace stn in few; oa chalky w/ poor vis porosity; no odor, ns

CH - white, lt grey to lt tan, opaque; highly foss, blocky in most w/ few sharp, vitreous; dense (non-weathered)

LS - crm, fine to med xln, smooth ip, few granular to sl foss; abdt chalky; few brown mineral stn; trace CH aa



LS - cm to tan, fn to med xin, few foss, smooth to granular txture ip; abdt chalk; few pcs bcky w/ edge SH contact; lt green hue on edges w/ trace shales

LS - cm to tan, sm gry, fine to med xin, foss ip w/ sm partial re-xin; sl granular txture in few; CH - wht lt gry, opaque, foss, vitreous & blocky, few app fractd & sl weathered; cotony txt ip; ~20% chalk, wht gummy

LS - cm, mst med xin w/ abdt foss & chalky matrix; argillaceous in most w/ few interbedded shales

Chalk - flood white, gummy, sticky, washes wht

Heebner 3782 (-1327)

SH - black, carbonaceous; soft crush

SH - grey to green, med firm; some limey

3800

ROP (min/ft)
Gamma (API)

LS - cream, mst fine to micro xin; few lt green shaley edges (contacts); some med xin, foss w/ re-xin calc (vis transluc xin dev ip) ns

LS - cm to off-white, mst fine xin; few foss, sl re-xin in few; brittle; abdt white chalk, med soft; few loose grey-green shales; sm v. soft (gummy)

Lansing 3822 (-1367)

LS - cream to white, fine to micro xin, some hvy ool foss w/ re-xin calc; sharp blocky, sub chert; brittle, poor vis por; no odor, ns

LS - cm to wht; mst fine xin; med xin ip, heavily foss w/ abdt 2ndary xin porosity w/ trc str; few stringers CH - white to brown, vitreous & foss; brittle; abundant loose wht chalk; no cup odor; ns

LS - cream to wht, fine to med xin; foss & re-xin; sm interbedded CH - white to cream, vitreous & foss; trace chalky; few pcs

SH - grey to dark; carb

3850

SH - brown, earthy; trans to gry, lt to med, most soft & gloppy; dissolves

LS - cream, med xin, foss txture w/ fair intrafoss porosity, gd friability; chalky ip; abdt SH - gry to red, soft & gummy; cup washes lt red

LS - cream, fine to med xin, sm foss w/ poor intra foss porosity; gd friability; trace pcs CH, few med xin LS w/ dark stn, apparent shale contact; scattered SH - grey, med soft to friable; solid

LS - cm, med xin w/ foss txture; few pcs w/ dark gry stained fractures; flood CH - mst white to bone, vitreous & blocky; sl weathered ip; abdt chalk

LS - cream to lt tan, gry, fn - med xin, sl foss ip; chalky throughout; mst good friability; poor-no vis porosity; trace shales

3900

LS - cm to lt tan, mst fine xin, few foss (mst oolites & fusilinids) good friab w/ poor vis por; chalky, ns

LS - cm, fine to med xin, foss ip, sm chalky, trans pcs CH - white to clear, trans - opaque, foss, vitreous, prev brown foss

LS & CH, v. similar as above; flood SH - mst grey & brown, gummy

LS - cream, med xin w/ foss to sl granular txture; v. good friab w/ soft, chalky break; good foss & oom-oo porosity, barren, flood white chalk, no fluor, no odor, ns

3950

LS - cream, aa (barren porosity); flood CH - cream to white, some translucent; vitreous, foss w/ sl weathering in few; oa dense & blocky

CH - white to cream. Vitreous & foss, sharp blocky & LS - lt grey, fine to v. fine xin; blocky, brittle to dense in sm; no vis por, ns

Muncie Ck 3974 (-1519)

SH - flood black, carb; vssg

SH - gry; med firm

LS - cm to tan, brown, fn-med xin w/ foss; partial re-xin, poor friability; dense

TOOH
Replace Bearings
on Mud-Pump
Down 9AM - 10PM

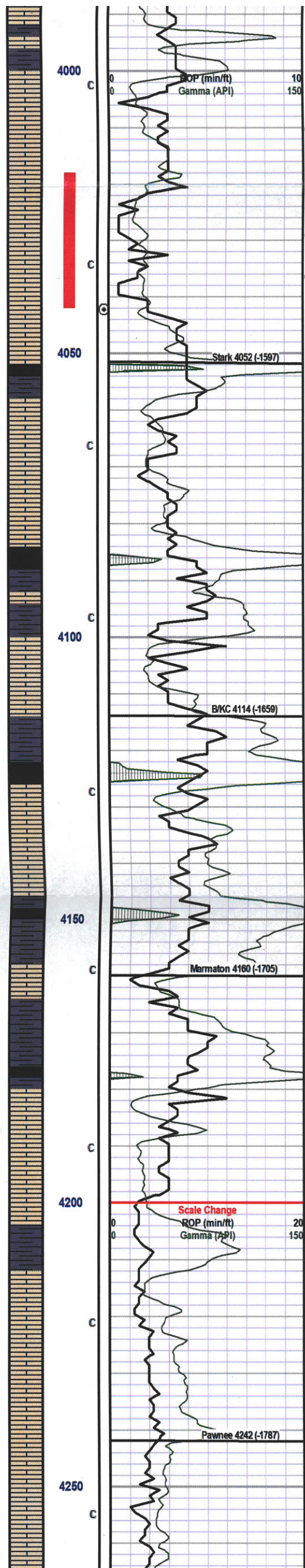
Mud-Co
Depth: 3803'
Wt. 8.85
Vis. 55
Filtrate 8.0
Chl 4,200
LCM Trace

WT: 8.8 #
VIS: 55
LCM: 1#

WT: 8.9 #
VIS: 55
LCM: 1#

WT: 8.9 #
VIS: 54
LCM: 1#

Mud-Co
Depth: 4034'
Wt. 9.15
Vis. 51
Filtrate 8.0
Chl 5,900
LCM Trace



LS - cm to gry, fine xln w/ partial re-xln sparr; platy & blocky; lithographic & dense

LS - cm to lt grey, mst fine xln, partial re-xln ip, trace foss; mst blocky, lithographic & dense; trace SH - grey, soft globby & few med firm

LS - cm to lt grey, fine xln; few partial re-xln w/ trace pp edge porosity; (1-2) pcs w/ ssfo (pinhead drops) on break; oa barren, blocky & dense w/ v. limited visible porosity; no odor

SH - grey green, med firm to blocky, silty; trace micaceous

LS - cm - fm-med xln; highly ooc-oom porosity w/ partial visible interconnectivity, good re-xln secondary inner ooc poros; 25% of sample w/ stain & shows; remainder w/ barren porosity; few dark residual oil; good cup odor & overall fair-gd show live oil & gas; spid bright yellow fluor w/ instreaming cut

Sample as above w/ decreasing show; increase barren porosity w/ partial stain & sm dark residual oil; fair cup odor remains; flood grey shale

LS - cm lt grey, fm-med xln w/ sl re-xln ip, mst chalky edges; platy to blocky, sl brittle; poor vis pors; no odor, ns

SH - gry, gummy; abdt white chalk

SH - blk, sl micaceous ip (glittery) w/ vssg

LS - cm lt grey, med xbx, highly foss ip w/ foss to chalky txture; gd fraib w/ poor vis porosity; sm gummy white & gry shale

LS - cream tan, lt grey, fine to med xln, few micro xln; dense & blocky; lithographic; trans to CH - cm white, vitreous, sharp fresh

LS - cream to grey, fine to med xln; chalky in mst, sm argillaceous, soft crush; poor vis porosity; ns; few trace shales

SH - black, carb; SH - lt grey, dissolves; cup washes grey from shale

LS - lt grey w/ sl green hue; mst fine xln; sl chalky ip, few foss, sl brittle; poor vis pors; ns

SH - flood gry-green; gummy; few blocky green to grey; some dark grey

SH - grey soft to med grey, firm & blocky; few carb; tro banded pyrite

SH - aa, trans siltstone; brick red to purple; sm marbled grey; soft & gummy ip

Siltstone; mottled as above; trans LS - cm to grey, lt green, few brown; dense & blocky, foss ip

SH, Siltstone & Argillaceous LS, abundant gummy grey shale throughout, scattered siltstone & lime; v. foss & argillaceous

LS - white to brown; mst micrite; fractured & re-xln; blocky & dense; few cherty

SH - flood varicolored water soluble shales; grey-purple, maroons

LS - cream to tan, sm brown, mst fm-vfn xln; tro foss; app fractd w/ re-xln sparr; oa dense & blocky; trace shaley

LS - cm lt tn, fine to v. fine xln; sm micritic; partial re-xln fracs; few foss & sm argillaceous ip w/ shaley contact; oa dns, platy & lithographic

LS - cm to lt grey, fine xln; sm partial re-xln, fracs ip; scatterd chalk; mst dense, lithographic

SH - grey to green, sm mottled; blocky & firm; foss ip (shells)

LS - cm to lt grey, mst fine xln, most platy & lithographic, chalky; few trans granular to sandy txture; fair to gd friab, poor vis porosity; ns

LS - cm to brown, fine to micro xln; brittle break; dense; few trans shaley; green-grey, blocky w/ lg foss inclusions

LS - grey to green, sl purple hue, sandy & argillaceous (v. shaley matrix) soft ip, mst firm to dense

LS - cm grey, med xln, granular to sucrosic txture; well compacted, no vis porosity & very dense (wont crush w/ tweezers)

DST #1 KC "J" Zone
Interval: 4018'-4042'
(24') Anchor
30-30-30-30
IF: BOB 7" (41")
IS: built to 3"
FF: BOB 9" (32")
FSI: built to 1.84"
SIP: 983-974#
IF: 45-195#
FF: 201-316#
Hydrostatic: 1947-1933#
BHT: 123F
Grav: 28.4 API @ 60 Degrees

Recovery:
718' TF + 93' GIP
40' CO
186' GVSOMCW (2% G 5% O
88% W 5% M)
432' OSMMV (98% W 2% M)
60' VSOMV (5% O 92% W 3% M)

Pipe Strap: 1.62 STB
Dev Survey: 1.5

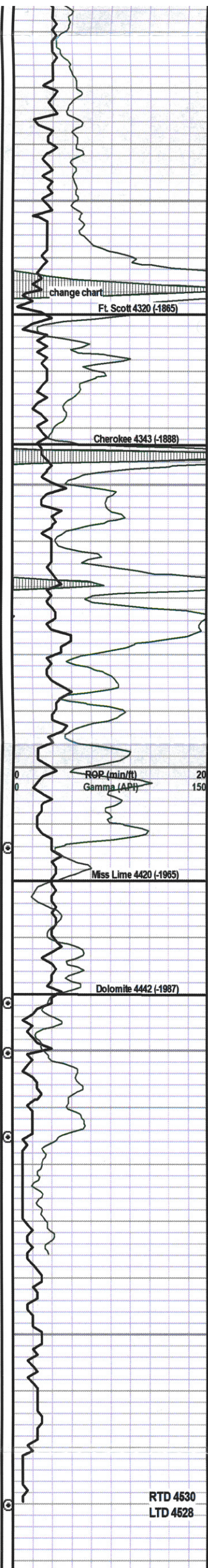
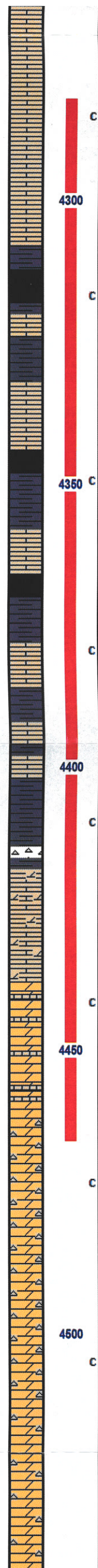
WT: 9.0 #
VIS: 55
LCM: 1#

Mud-Co
Depth: 4159'
Wt. 9.4
Vis. 50
Filtrate 9.6
Chl 7,400
LCM Trace

WT: 9.1 #
VIS: 53
LCM: 0

WT: 9.1 #
VIS: 51
LCM: 0

Rig Service: 15 mins



LS - med gry to brown, fn-med xln, granular texture; well compacted, no vis poros; v. dense

AA; few pcs trans cream to white, soft & chalky (trace)

LS - crm to brown, fn to med xln; fairly well compacted, sl brittle ip; few chalky; overall dense & lithographic

LS - grey to dark grey, fine xln, blocky & dense; appears argillaceous; cup water dark to black

LS - dark grey, fine to med xln; v. shaley app; dense to sl brittle break ip; dark water

change chart

Ft Scott 4320 (1865)

SH - flood dark, grey to black, soft to carbonaceous ip w/ vssg

LS - cream lt grey, fine xln; sl chalky txture, few pyritic xln dev; blocky & dense; *abdt carb shale & white gummy chalk

LS - cream, fine to med xln; chalky & foss txture, good friab; poorly dev pp - intrafoss porosity w/ vssfo in few pcs; chalky break w/ pinhead show lt brwn-gld free oil; faint cup odor; trace spotted dull ylw fluor

Cherokee 4343 (1888)

LS - cream, fine xln; mst blocky & dense; lithographic; sl chalky ip w/ trc pyrite; <10% SH - blk, carb

LS - crm-lt grey, mst fine xln; chalky txture; few w/ gm glauc stn; foss ip; abdt loose chalky & gummy grey shales; <10% blk carb SH

LS - crm, fine to med xln, sm marbled micrite & chalk, sl foss ip, few w/ edge shale contact (lt green), few lt green shales, blocky firm, abdt sticky grey-gm shale

LS - crm to brwn, fine xln; re-xln ip, chalky to argillaceous ip, sl dense, few gm shales, blocky & firm

LS - crm to brown, fine xln - micritic; foss ip, argillaceous w/ interbedded shale; green to grey w/ flood sticky grey-green shales

SS - cream clusters w/ black spots, fine-x. fine grained, well md & srtid; mod-gd friab (clear to frosted grains)w/ flood oil on break, lt brwn fo & g; v. good show oil; slight odor in cup w/ spotty dull ylw fluor

SS - as above; trans to CH - varicolored vitreous, ylw orange, white; trans to trippolitic; white w/ black; sm pcs w/ gd show fo; increase on break; mod friability

CH - varicolored; mst vitreous, sm trippolitic w/ fair show fo; loose gummy shales; yellow - red; faint odor

CH - varicolored; mst vitreous - marbled & banded colored, few pcs trippolitic w/ sso on break, mst residual; abdt varicolored shales & LS - cream w/ ylw stn; fn-med xln, blocky w/ fair friab; no vis por; few SS clusters; as above w/ poor friability; good shows (7-8) large clusters, cavings ?

Miss Lime 4420 (1965)

LS - cream w/ ylw; fine-med xln w/ re-xln calc & marbled foss & micrite, sm dolomitic; chalky on break; good friability; no odor, ns; loose white-yellow chalk; no odor, ns

LS - crm w/ ylw stn, fn xln w/ abdt foss & chalk; re-xln ip, micritic ip; trace chert, sl dolo, flood shale & conglomerate; lt green gummy shale, purple cong; no odor, ns

Dolomite 4442 (1987)

LS - crm w/ ylw-org stn, med xln w/ foss & v. chalky; abundant chalk & sticky shales

Dol - cream, mst fine to micro xln; dense & blocky; few pcs w/ pp-sm vuggy porosity & re-xln ip; limey; ss oil; fair to good cup odor, increase on break w/ moderate show free oil on break; v. limited pcs w/ shows; flood of chalk in 40" sample

Dol - cream lt tan, fine to med xln, sucrosic to rhombic ip; re-xln; sm -med vuggy porosity ip w/ moderate friability; fsfo w/ increase on break; gd cup odor; abdt loose chalk

Dol - cream lt tan, mst fine xln, sucrosic; re-xln ip w/ sm vgy porosity; some limey; fsfo; flood white gummy chalk

Dol; cream, fine xln, blocky w/ abdt foss; mst dense w/ sm dissolution porosity & sm vis intraxln pors; sm pcs w/ white interbedded CH; ssfo w/ increase on break; overall fair show; decrease from above

Dol; cream, fine-med xln, blocky, gd dissolution porosity (pp-vgy) & sm vis intraxln pors; fsfo w/ nice increase on break; overall fair-good show

Dol - crm, fn-med xln; few pcs AA that still carry shows (suspected cavings), trans fn xln sucrosic; moderate friability w/ poor visible porosity; lithographic

Dolo - crm to lt grey, fn-med xln, sucrosic in some; poor visible porosity w/ chalky break, sm pcs argillaceous-chalky w/ glauconitic stn; no odor, ns

Dol - crm to gry, fine xln, sl sucrosic in most; limey, poor friability w/ limited intraxln porosity; cherty to chalky ip, faint odor in cup, ns

Dol - crm to lt gry, off white; sucrosic to cottony txture; mst dense w/ poor vis porosity; few re-xln, sm banded white chert; trc cup odor; ns

WT: 9.4 #
VIS: 49
LCM: 1#

work on pump: 40 mins

WT: 9.2 #
VIS: 52
LCM: 2#

WT: 9.2 #
VIS: 50
LCM: 2#

WT: 9.3 #
VIS: 51
LCM: 2#

DST #2 Mississippi Straddle
Interval: 4283'-4466'
(183') Anchor
30-30-30-30
IF: wb built to 2.25"
IS: no bb
FF: wb built to 1"
FSI: no bb
SIP: 940-911#
IF: 27-53#
FF: 55-69#
Hydrostatic: 2057-2078#
BHT: 120F

Recovery:
120' TF
60' Mud
60' OSM (1% O 99% M)

Mud-Co
Depth: 4492'
Wt. 9.3
Vis. 62
Filtrate 8.8
Chl 5,000
LCM 1#

RTD 4530
LTD 4528