

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)</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	CHRISTIANS 2
Doc ID	1460912

All Electric Logs Run

Micro
Dual Induction
Borehole Compensated Sonic
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	CHRISTIANS 2
Doc ID	1460912

Tops

Name	Top	Datum
Anhy.	835	(+1098)
Base Anhy.	862	(+1071)
Howard	2700	(- 767)
Topeka	2740	(- 807)
Heebner	3015	(-1082)
Toronto	3031	(-1098)
Brown Lime	3102	(-1169)
Lansing	3119	(-1186)
BKC	3366	(-1433)
Arbuckle	3373	(-1440)
LTD	3528	(-1595)

SWIFT



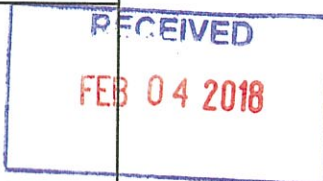
P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
1/29/2019	27791

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



- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Christians	Barton	WW Drilling Rig ...	Oil	Development	Cement Long Str...	Jonathan
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				60	Miles	5.00	300.00
578D-L	Pump Charge - Long String				1	Job	1,300.00	1,300.00
290	D-Air				3	Gallon(s)	42.00	126.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
403-5	5 1/2" Cement Basket				1	Each	275.00	275.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
409-5	5 1/2" Turbolizer				7	Each	85.00	595.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	16.25	2,031.25T
325	Standard Cement				100	Sacks	13.00	1,300.00T
284	Calseal				5	Sack(s)	35.00	175.00T
283	Salt				550	Lb(s)	0.20	110.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				50	Lb(s)	2.50	125.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				687.69	Ton Miles	0.85	584.54
	Subtotal							9,165.54
	Sales Tax Barton County						7.50%	494.04

We Appreciate Your Business!	Total	\$9,659.58
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CHARGE TO: Palomino Petroleum
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 27791

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hoys, KS WELLPROJECT NO. #2 LEASE Christians COUNTY/PARISH Barton STATE KS DATE 01/29/19 OWNER
 2. Miss City, KS TICKET TYPE SERVICE CONTRACTOR WKS Drilling RIG NAME/NO. #14 SHIPPED VIA CT DELIVERED TO Location ORDER NO.
 3. WELL TYPE D-1 WELL CATEGORY Development JOB PURPOSE Cement Long String WELL PERMIT NO. WELL LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DE								
575						1	EA				5.00	5.00
578						1	EA				1,500.00	1,500.00
290						3	gal				42.00	126.00
221						4	gal				25.00	100.00
281						5	gal				1.00	5.00
403						1	EA				275.00	275.00
486						1	EA				250.00	250.00
407						1	EA				325.00	325.00
409						7	EA				85.00	595.00
419						1	EA				200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED _____ TIME SIGNED _____

SWIFT OPERATOR Brian Stapp APPROVAL _____

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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGRE	UN-DECIDED	DIS-AGREE	Page 1	4221
WE UNDERSTOOD AND MET YOUR NEEDS?				Page 2	4944
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Sub Total	9165
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Location	49404
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	9159 58

CUSTOMER DID NOT WISH TO RESPOND

Thank You!



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

TICKET CONTINUATION

TICKET No. 27791

CUSTOMER: *Polerino Petroleum* WELLS: *Christians #2* DATE: *01/29/19* PAGE: *2* OF: *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		UNIT		AMOUNT	
		LOC	ACCT	DE			QTY	U/M	QTY	U/M		
330		2				Swift Multi-Density Standard	125	SKS	16	25	2031	25
325		2				Standard Cement	100	SKS	13	00	1300	00
284		2				Cal Seal	5	SKS	35	00	175	00
283		2				Salt	500	lbs	8	20	110	00
285		2				CFR-1	50	lbs	4	50	225	00
276		2				Flocele	50	lbs	2	50	125	00
581		2				Service Charge Cement	225	SKS	1	75	393	75
583		2				Mileage Charge	60	MILES	0	85	584	54
TOTAL WEIGHT							22923		TOTAL MILES		60	
TOTAL WEIGHT							687.69		TOTAL MILES		687.69	

CONTINUATION TOTAL 4944 54

JOB LOG

SWIFT Services, Inc.

DATE

01/29/19

PAGE NO.

1

CUSTOMER

Alabama Petroleum

WELL NO.

#2

LEASE

Christians

JOB TYPE

Cement Long String

TICKET NO.

27791

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							On location w/Float Equipment
								RTD - 3530'
								LTD - 3528'
								Total Pipe Ran -
								Shoe Jt - 42
								Turbo's - 1, 3, 5, 7, 10, 13, 17
								Basket - Btm of 4
	1545							Started Casing w/Float Equipment
	1745							Break Circ on Bottom
	1855							Hook up to Swift
	1900	2	7					Plug R.H. w/3D SKs
		5	12			400		Pump Mud flush
		5	20			400		Pump KCL spacer
	1920	4				400		Start SMD CMT @ 11.2 ppg
			52					Fin SMD, Start EA-2 Cmt
	1945	4	76			Vac		Fin Cmt
	1950							Drop Plug
			3					Washout Pump & Lines
	1950	7 1/2				Vac		Start Displacement
		7	52			400		Catch Cmt
						1100		Lift PSI 1100 #
	2000	6	50 1/2			1500		Land PSI 1500 #
	2005							Release Truck, Dry
								Wash up
								Rack up
	2020							Job Complete
								Thanks
								Jon, Austin, Isaac

RECEIVED

JAN 28 2019

Date: 1/24/2019
Invoice # 1183

P.O.#:

Due Date: 2/23/2019

Division: Russell



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

Invoice

Contact:
Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
Newton Ks 67114

Reference:
CHRISTIANS 2 SEC 20-16-12

Description of Work:
SURFACE JOB

Cement for surface on # 2

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 657.71	No
Common-Class A	145	\$ 2,201.96	Yes
Calcium Chloride	7	\$ 288.97	Yes
POZ Mix-Standard	35	\$ 180.61	Yes
Bulk Truck Matl-Material Service Charge	190	\$ 140.06	No
Pump Truck Mileage-Job to Nearest Camp	27	\$ 89.57	No
Bulk Truck Mileage-Job to Nearest Bulk Plant	27	\$ 69.66	No
Premium Gel (Bentonite)	3	\$ 64.13	Yes

1/24

Quantity Price Taxable

Invoice Terms:

Net 30

SubTotal: \$ 3,692.68

Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (92.32)

SubTotal for Taxable Items: \$ 2,667.28

SubTotal for Non-Taxable Items: \$ 933.08

Total: \$ 3,600.36

Tax: \$ 200.05

7.50% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,800.41

Applied Payments:

Balance Due: \$ 3,800.41

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.

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

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

No. 1183

Date	1-24-19	Sec.	20	Twp.	16	Range	12	County	Barton	State	Ks	On Location		Finish	4:15 PM
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Lease Christians Well No. 2 Location Beaver - East side Blacktop - 1/8 N to last

Contractor WW #14 Owner Rt on West side, W to Cattle guard + N
To Quality Oilwell Cementing, Inc. to Rig
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 Palamino Petroleum

Hole Size 12 1/4" T.D. 372' Depth 372'

Csg. 8 5/8" 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. 15' Shoe Joint 15' Cement Amount Ordered 180 80/20 3% CC 2% Gel

Meas Line Displace 22 3/4 BLS

EQUIPMENT

Pumptrk 16 No. Cementer Helper David	Common 145
Bulktrk 14 No. Driver Doucy	Poz. Mix 35
Bulktrk Pill, No. Driver Rick	Gel. 3
	Calcium 7

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Handling 190
Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

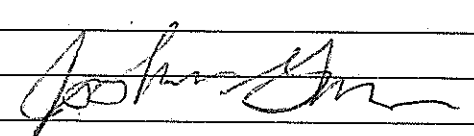
AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 27

X Signature 

Tax
Discount
Total Charge



PALOMINO PETROLEUM, INC.

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

Well Name: Christians #2
API: 15-009-26249
Location: NE - SE - NW - SE of Sec. 20 16s 12w
License Number: 30742
Spud Date: 1/23/2019
Surface Coordinates: 1965' FSL & 1560' FEL
Region: Barton County, KS
Drilling Completed: 1/28/2019

Bottom Hole Same as surface coordinates

Coordinates:

Ground Elevation (ft): 1922' K.B. Elevation (ft): 1933'

Logged Interval (ft): 2600' To: 3530' Total Depth (ft): 3530'

Formation: Arbuckle Dolomite @ Total Depth

Type of Drilling Fluid: 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	LOG TOPS
Anhy	835 (+1098)
Base Anhy	832 (+1071)
Howard	2700 (-767)
Topoka	2740 (-807)
Heebner	3015 (-1082)
Toronto	3031 (-1098)
Brown Lime	3102 (-1169)
Lansing	3119 (-1186)
B/KC	3366 (-1433)
Arbuckle	3373 (-1440)
RTD	3528 (-1595)
839 (+1094)	Anhy
860 (+1073)	Base Anhy
2705 (-772)	Howard
2742 (-809)	Topoka
3020 (-1087)	Heebner
3037 (-1104)	Toronto
3108 (-1175)	Brown Lime
3124 (-1191)	Lansing
3367 (-1434)	B/KC
3394 (-1461)	Arbuckle
3530 (-1597)	LTD

Drilling Report

- 1/23/19 Moved in WW Drilling, L.L.C. rotary tools (Rig #14). Spudded at 7:45 p.m.
- 1/24/19 Tripping in hole with bit at 258'. p.m.
- 1/25/19 Drilling at 693'.
- 1/26/19 Drilling at 2153'. Geologist on location @ 8:30 PM.
Samples started @ 2700'
- 1/27/19 Drilling at 2926'.
- 1/28/19 DST #1 (Arbuckle)
- 1/29/19 Logging at 3530'. Ran 5.5" 17# Oil String of Casing

Pipe Setting

Ran 8 jts. new 8 5/8" 20# surface pipe set at 372' and cemented with 180 sacks 80/20, 2% gel, 3% c.c. Cement did

Pipe Setting

Ran 8 jts. new 8 5/8" 20# surface pipe set at 372' and cemented with 180 sacks 80/20, 2% gel, 3% c.c. Cement did circulate. Plug down at 4:15 p.m.

Ran 84 jts. new 5.5" 17# casing set 17' off bottom @ 3511'. Pumped 500 gal mud flush with additives followed by 20 bbls. KCL water and cemented with 95 sacks SMD cement and 100 sacks EA-2 Cement. Had 1100# lift pressure. Plug down @ 8:00 pm. Pressured to 1600#, released & held. Plugged rat hole with 30 sacks SMD cement. Basket @ 3426' FDCs at 3402' and 3411'.

Centralizers @ 3469', 3426', 3327', 3201', 3074', 2498' and 2279'. Shoe joint = 42.12'

DSTs

DST #1 - Ar buckle
Interval: 3358'-3405'
(47' Anchor)

Test Times: 10-30-10-30

IF: BOB in 12 seconds

ISI: no BB

FF: BOB 8 seconds

FSI: wk surface bb, died in 20"

Recovery: 2200' TF + 60' GIP

2080' GMCO (80% O) (10%G)(10%M)

120' GMWCO (70% O) (10%G)(10%M)(10%W)

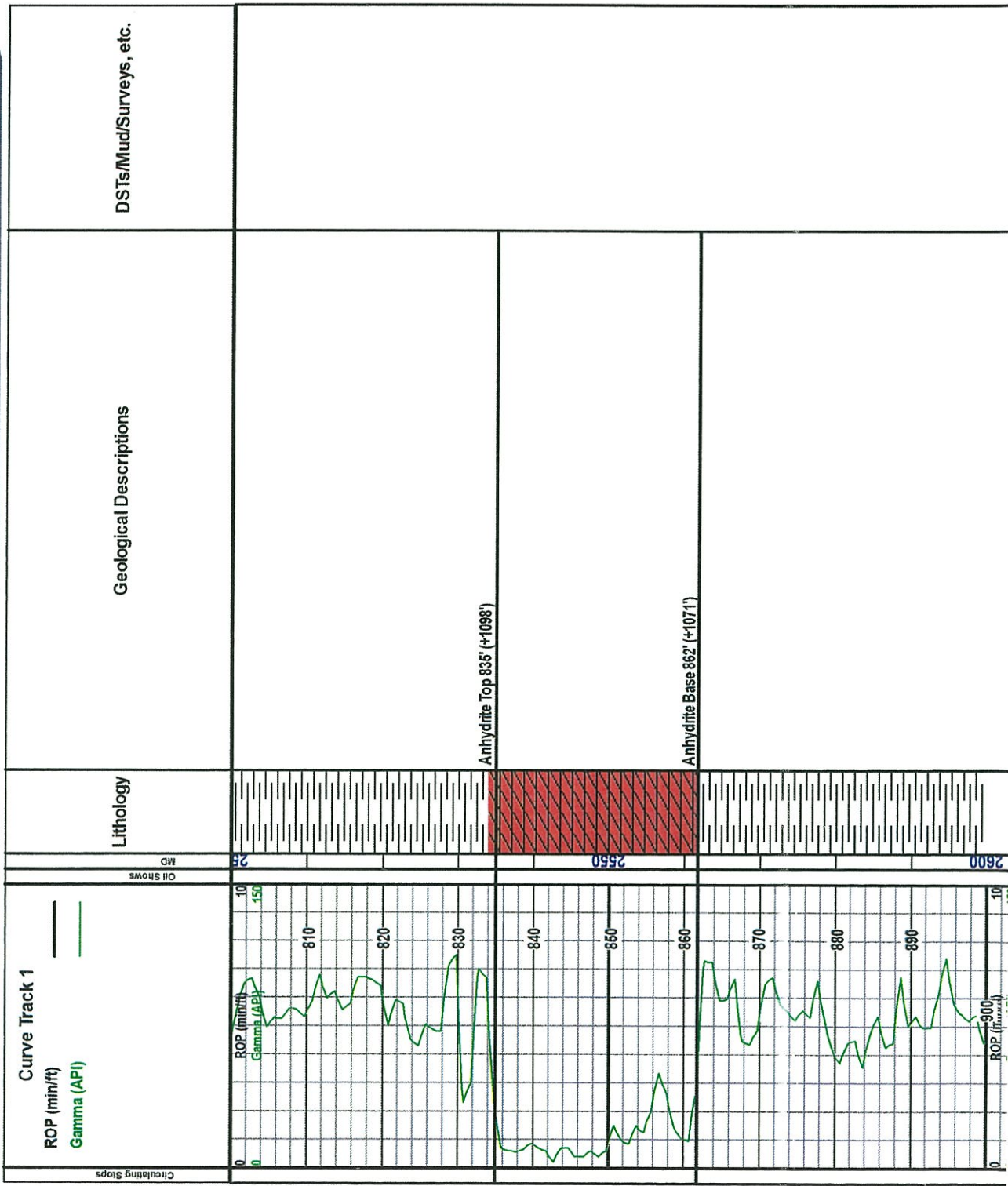
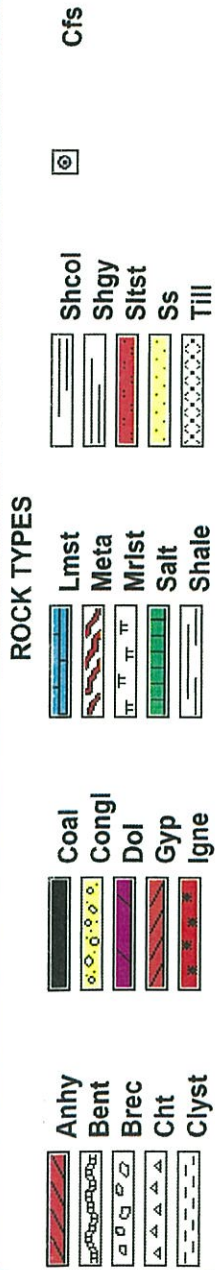
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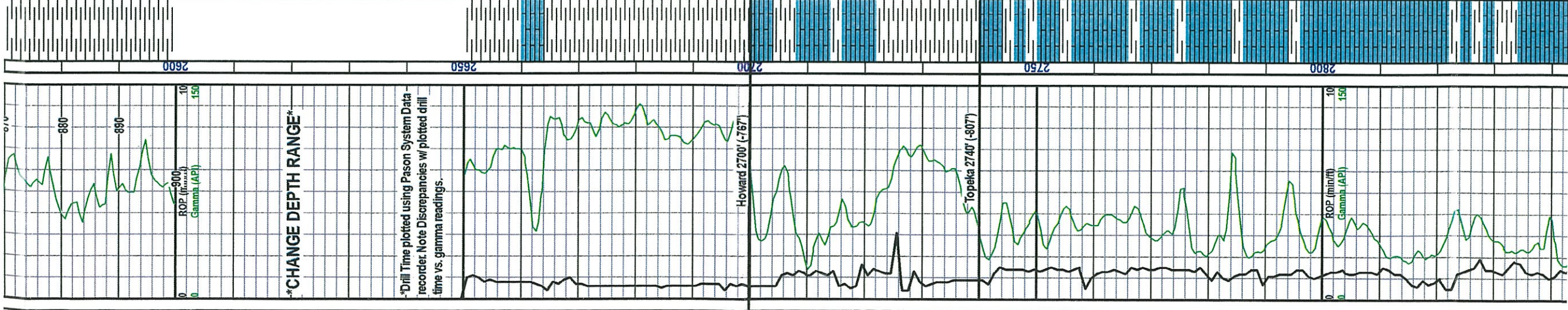
FP: 736-784# to 899-985#

Hydrostatic: 1680-1644

Temp: 108 deg F

Gravity: 35 API





Plugged Bit @ 2622' TOOH
 **Tree roots plugged bit

Geologist Eli J. Felts on Location
 1/26/19 @ 8:30 PM
 Depth on arrival: 2622'
 Status: TH w/ bit following
 plugged bit

*Tops have been adjusted to Gemini Wireline Logging tools & samples have been lagged.

Ran the following Open Hole Logs
 >CNL/CDL
 >Dual Induction
 >Micro-Resistivity
 >Sonic

SH - grey to green, silty to silty sandy in few; many soft, grey - mushy shales

SH - grey to green, soft; glob in some; mushy

SH

LS - brown, fine to micro-xln; foss ip w/ re-xln calc. banding; oa dense, ns

SH - grey to lt grey, soft to silty; sil sandy ip; claybound, fine grained, mica ip

LS - cream-gry - brown; fine to med xln; foss ip w/ re-xln banding; trans shaley ip, sil
 chalky

SH - mst as above; flood LS - cream to brown, fine to micro xln; dense; foss ip, trace
 argillaceous, poor visible porosity; ns

LS - grey to brown, fine xln; argillaceous ip w/ abundant foss; sil chalky ip

LS - cream to grey, brown, fine to med xln; grey ls w/ dark grey foss; brn ls - fine xln,
 dense; trace pcs argillaceous ls

LS - cream to grey, fine to med xln; foss ip, abundant argillaceous ls & shaley stringers
 throughout, few pcs blocky fn xln LS

LS - cream to grey, mst fine xln; foss ip, most blocky, dense, flss ip; trace chalky, poor vis
 porosity; ns

LS - cream to grey, fine xln, foss ip, some sdy texture w/ lt brown mineral str; few traces
 chert, arg-brown. opaque & foss. vitreous. few pcs lt grey sh. soft to mushy in some

Conn @ 2662'

Conn @ 2693'

10' Samples & 1' Drill Time Start @
 2700'

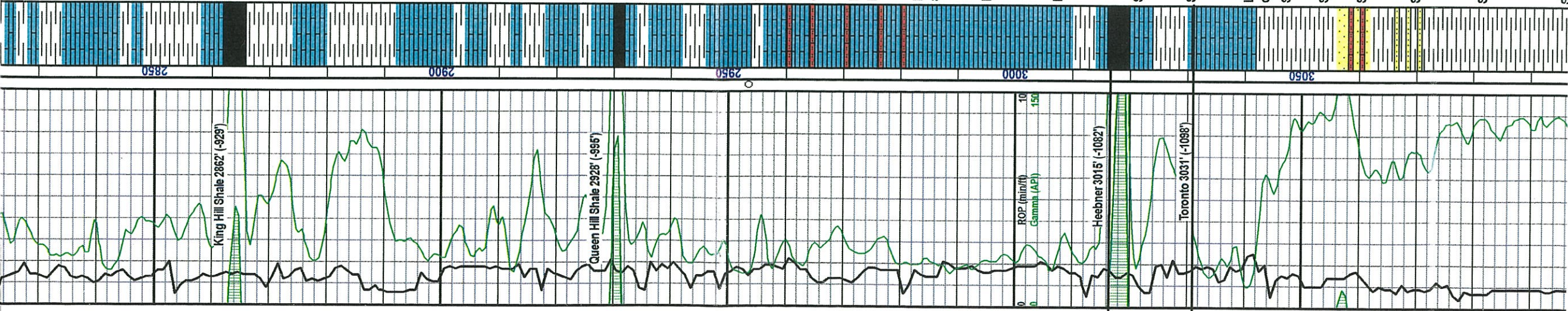
WT-5.6+ / VIS-49 / LCM-1#

Conn @ 2725'

Conn @ 2757'

Conn @ 2789'

Conn @ 2820'



LS - cream to grey, fine xin, foss ip, some sdy txture w/ lt brown mineral stm; few traces chert, gry-brown, opaque & foss, vitreous, few pcs lt grey sh, soft to mushy in some

LS - cream to grey, fine to med xin, sl sandy texture ip, argillaceous in some w/ chalky texture; vs ques show in chalky lime, flakey oil tied up in chalk

LS - cream to grey, fine to med xin; argillaceous; trace fine to micro xin, few chert; v. few pcs dark carb shale, abundant white chalk

SH - shades of grey, soft & silty

LS - cream to lt grey, tan, fine xin in most; abdt foss; overall soft; argillaceous w/ trace lt brown stain; no odor or show; trace shale contacts

LS - cream to grey, fine to med xin, foss; argillaceous; silty to sandy texture in part; trace CH - grey to white, vitreous & sharp

LS - cream to grey, fine xin, sandy ip, abundant foss; argill in most; soft

LS - cream to grey, fine to med xin; abdt foss; argillaceous in most; traces black carb shale

LS - cream; v chalky ttxture, soft w/ trans to SH - grey to lt grey & soft

LS - cream to grey, lt tan to brown, mst fine xin; blocky w/ trace re-xin spar in some; ques stain ip; ns on break; poor dull yw fluor; faint odor; ns

LS - cream to tan, lt brown; chalky ip w/ sl sandy ttxture; few scattered chert; brown, opaque, foss sharp & fresh

LS - cream to tan, mst as above; trans to CH - dark grey, vitreous, sharp & fresh; no visible porosity or weathering

LS - cream to tan, grey, fine to med xin; chalky ttxture, sl sandy ip w/ sl lt brown staining; abdt chalk; no odor; ns; trace CH; poss cavings

LS - cream to grey, sm brown; fine to med xin ip; argillaceous ip; overall dense; ns

LS - tan to lt brown, med xin, sl dense; trans to fine xin; few foss; dense

SH - dark brown; org, sl pyr xin ip; carb, micaceous; ques show gas

SH - mst grey to green, silty; blocky & firm

LS - cream to lt tan; mst fine xin, foss ip w/ fw trace scat stain; chalky ip, overall blocky & dense

SH - grey to green, silty & soft; few lt grey to cream, mushy

SH - grey to green, sm lt green, brick red; flood lt grey shale

SH - v similar aa, trace sand; lt grey to green, fine grained; micaceous w/ shaley matrix

SH & SS, grey, soft & micaceous

SH - grey to green, soft; abundant mushy; cup washes grey w/ watery shales

Conn @ 2852'

WT-8.9 / VIS-46 / LCM-1#

Conn @ 2884'

WT-9.0 / VIS-44 / LCM-1#

Date: 1/27/2019
 Time: 7 AM
 Hole Depth: 2926'
 Bit Depth: 2926'
 Status: Drilling

9.0WT 43VIS

Mud-Co Report
 Time: 8:05AM
 Depth: 2965'
 Wt: 8.9
 V/s: 46
 LCM: Trc
 WL: 10.4
 CHL: 10,800

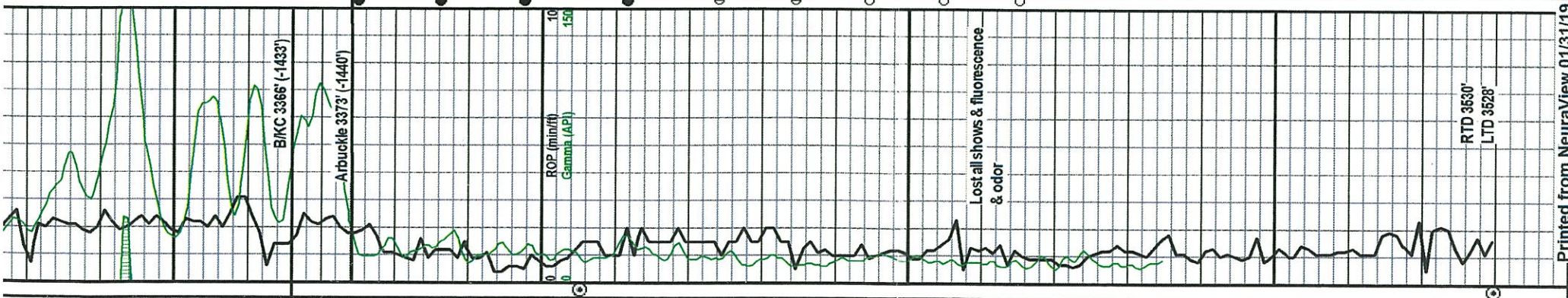
Conn @ 2980'

Conn @ 3011'

Conn @ 3043'

Conn @ 3075'

SH - v. similar aa, trace sand; lt grey to green, fine grained; micaceous w/ shaley matrix



golden "clingy" oil; fair cup odor; overall weak to fair show; faint cup odor remains

LS - aa, trans to med xin, brown, foss, argillaceous ip w/ green to red hue; scattered shales, green to red, dense & blocky

LS - cream to brown, fine to microxin; argill ip, blocky & dense, trace pyrite; loose shales grey to green, mottled ip, no odor, nsfo

LS - cream to tan, lt grey, fine xin; lithographic, blocky & dense, foss ip, shales aa, few clusters SS - gry, v. fine grained, micaceous ip, claybound ; trace chert, varicolored banded in LS

SH - reds to brick, green to grey, sticky shales

LS - cream to brown, fine to micro xin, argillaceous ip w/ green hue; foss in some: abdt shales, aa, sm mottled

LS - cream to white; med xin, foss, oolite; w/ fair -gd intrafoss & re-xin porosity; few clusters w/ large dolomite xin dev; med-large xin (clear), rhombic w/ some fine to med xin dolomite dev; fso on edges w/ increase on break; lt brn to gold fo; fair cup odor; scat dial ylw fluor; inst sirm cut; abdt red & wht sticky shales

Dolomite; cream to white tan, med to coarse xin; vug ip; scattered cherts w/ dissolution porosity; ~30% even stain w/ fso on break; moderate to good cup odor; instant lt blue streaming cut

Dolomite - cream to lt tan, med to coarse xin; good intraxin porosity & ~50% visible saturated stain (sm pcs barren) fair to good friability w/ good show free oil w/ increase on break; bright ylw fluor w/ inst lt blue streaming cut; good cup odor & oa show

Dol - aa, mostly med xin; several pcs in contact w/ chert; show quality identical w/ sl decrease in pcs w/ saturated sh

Flood SH - varicolored, grey - green, abdt mottled; some red, loose pyrite; ~15% Dolomite - white to lt grey; med xin w/ fair to moderate visible porosity; appears more tight than previous samples w/ poor to moderate friability; poor to fair saturated stain; fso on break

-60% SH, aa; Dol - cream to white, med to coarse xin in most, sm fine xin & dense; fair to good show to in med xin dot; fair to good friability w/ v. good show on break; abundant loose pyrite & pyrite xin dev in dolomite

Cup washes red; mostly shales & trip trash

Dol - cream to white; lt grey, fine to med xin; fair interxin porosity; barren in most w/ prevalent pyrite development; poor friability; poor to fair show free oil in few samples; appears "clingy" on break; fair cup odor remains

Dol - white to cream, lt grey, mst fine xin; few pcs w/ sl pp-v sm vuggy porosity; pp show lt brn - gid free oil; v. dense(wont crush) few pcs w/ green glauc inclusions & pyrite; slow weeping cut; w/ dull yellow fluor

Dol - cream to white; lt grey, mst fine xin; aa, increase pyrite w/ several banded streaks pyrite; trace green-grey shales; several pcs med xin w/ fair interxin porosity; uneven stain in few w/ vsfso ip; increase on break (poss cavings)

Dol - cream, fine to sl med xin; fair interxin porosity, moderate friability in most; 95% barren; 2 pcs w/ std stain w/ mod sfo on break; chalky ip, few pcs w/ glauc stain; trace ylw - red shales

Dol - cream to buff (sl pink hue in sm pcs), mostly fine xin; few med xin w/ poor interxin porosity; trace questionable stain in few; no show on break; no cup odor; no fluor remains

Dol - cream to white, fine to med xin; fair interxin porosity (barren) w/ sl glauc hue in some; trace green shales & pyrite; no fluor, no odor, nsfo

Dol - cream to lt grey, med xin; fair interxin porosity w/ sm sl pp to sm vuggy porosity, moderate friability, barren porosity; trace shaley - green

Dol - cream to white, med xin, mst friable; few pcs w/ large, translucent dol xin growth; sm vis fractures w/ glauc staining; overall lithographic; sl chalky ip

Dol - flood pink hue; med to large xin w/ translucent rhombic xin; fair amt glauc stn & varying xin size; med to lg; barren

Dol - cream to gry, abdt pinkish hue; mostly med xin; fair amt translucent xin; pore space filled w/ smaller xin growth & appears tie; sl, hard; no shows; few trace shales

Date: 1/28/2019
 Time: 7:25AM
 Hole Depth: 3405'
 Bit Depth: NA
 Status: TH w/ DST #1 (Arbuckle)

DST #1 - Arbuckle
 Interval: 3368'-3405'
 (47' Anchor)
 Test Times: 10-30-10-30
 IF: BOB in 12 seconds
 ISI: no BB
 FF: BOB 8 seconds
 FSI: wk surface bb, died in 20"
 Recovery: 2200' TF + 60' GP
 2080' GMCO (80% O)
 (10%G)(10%M)
 120' GMWCO (70% O)
 (10%G)(10%M)(10%W)
 SIP: 1088-1102#
 FP: 736-78# to 899-98#
 Hydrostatic: 1680-1644
 Temp: 108 deg F
 Gravity: 35 API

Adding Tank Mud Immediately following DST #1. Sample quality very poor; mostly shales & abundant carry over

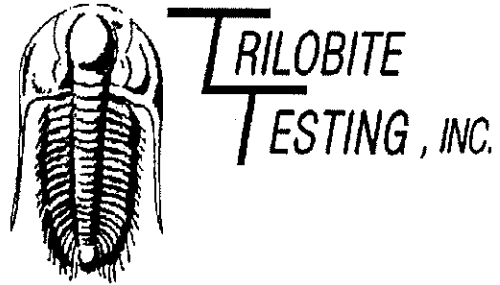
Conn @ 3424'

Conn @ 3456'

WT-92 / VIS-49 / LCM-1#

Gemini Wireline
 Loggers on location @ 1AM to run open-hole logs

Date: 1/29/2019
 Time: 6:56AM
 Hole Depth: 3530'
 Bit Depth: NA
 Status: Finished Logging @ -6AM.
 Ran 5.5" oil string of casing



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton KS 67114+8827

ATTN: Eli Felts

Christians #2

20-16s-12w Barton,KS

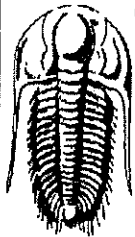
Start Date: 2019.01.28 @ 05:58:00

End Date: 2019.01.28 @ 15:37:49

Job Ticket #: 64982 DST #: 1

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

Printed: 2019.01.29 @ 11:06:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
 4924 SE 84th St
 Newton KS 67114+8827
 ATTN: Eli Felts

20-16s-12w Barton,KS

Christians #2

Job Ticket: 64982

DST#: 1

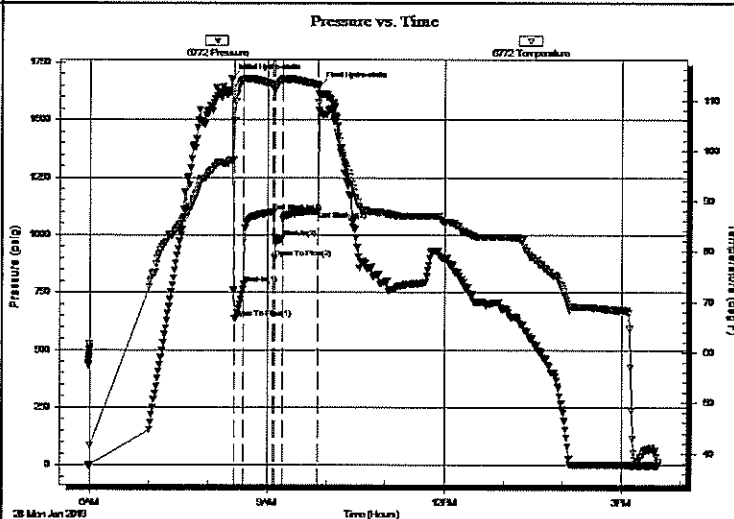
Test Start: 2019.01.28 @ 05:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:26:30 Tester: Benny Mulligan
 Time Test Ended: 15:37:49 Unit No: 66
 Interval: **3358.00 ft (KB) To 3405.00 ft (KB) (TVD)** Reference Elevations: 1933.00 ft (KB)
 Total Depth: 3405.00 ft (KB) (TVD) ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: ft

Serial #: 6772 Inside
 Press@RunDepth: 985.24 psig @ 3359.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.28 End Date: 2019.01.28 Last Calib.: 2019.01.28
 Start Time: 05:58:01 End Time: 15:37:49 Time On Btm: 2019.01.28 @ 08:23:00
 Time Off Btm: 2019.01.28 @ 09:52:10

TEST COMMENT: I.F.-10-BOB 12 seconds total build of 355"
 I.S.I.30- no blow back
 F.F.-10-BOB 8 seconds total build of 135"
 F.S.I.-30- weak blow died in 20 mins



PRESSURE SUMMARY

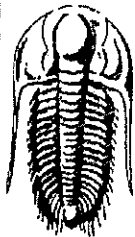
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.69	98.02	Initial Hydro-static
4	636.42	105.95	Open To Flow (1)
13	784.11	114.10	Shut-In(1)
43	1099.11	112.97	End Shut-In(1)
44	899.55	112.19	Open To Flow (2)
52	985.24	114.07	Shut-In(2)
88	1102.59	112.98	End Shut-In(2)
90	1644.48	108.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	G.W.M.C.O. 10%G 10%W 10%M 70%O	0.63
2080.00	G.M.C.O. 10%G 10%M 80%O	29.18
0.00	60' GIP	0.00

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
New ton KS 67114+8827
ATTN: Eii Felts

20-16s-12w Barton,KS

Christians #2

Job Ticket: 64982

DST#: 1

Test Start: 2019.01.28 @ 05:58:00

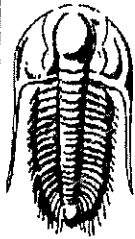
Tool Information

Drill Pipe:	Length: 3306.00 ft	Diameter: 3.80 inches	Volume: 46.37 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 116.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.94 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	91.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3358.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3332.00	
Shut In Tool	5.00			3337.00	
Hydraulic tool	5.00			3342.00	
Jars	5.00			3347.00	
Safety Joint	2.00			3349.00	
Packer	5.00			3354.00	27.00 Bottom Of Top Packer
Packer	4.00			3358.00	
Stubb	1.00			3359.00	
Recorder	0.00	6772	Inside	3359.00	
Recorder	0.00	6769	Outside	3359.00	
Perforations	9.00			3368.00	
Change Over Sub	1.00			3369.00	
Drill Pipe	32.00			3401.00	
Change Over Sub	1.00			3402.00	
Bullnose	3.00			3405.00	47.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114+8827
ATTN: Eli Felts

20-16s-12w Barton,KS

Christians #2

Job Ticket: 64982

DST#: 1

Test Start: 2019.01.28 @ 05:58:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 10.38 in³
Resistivity: ohm.m
Salinity: 10800.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 35 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

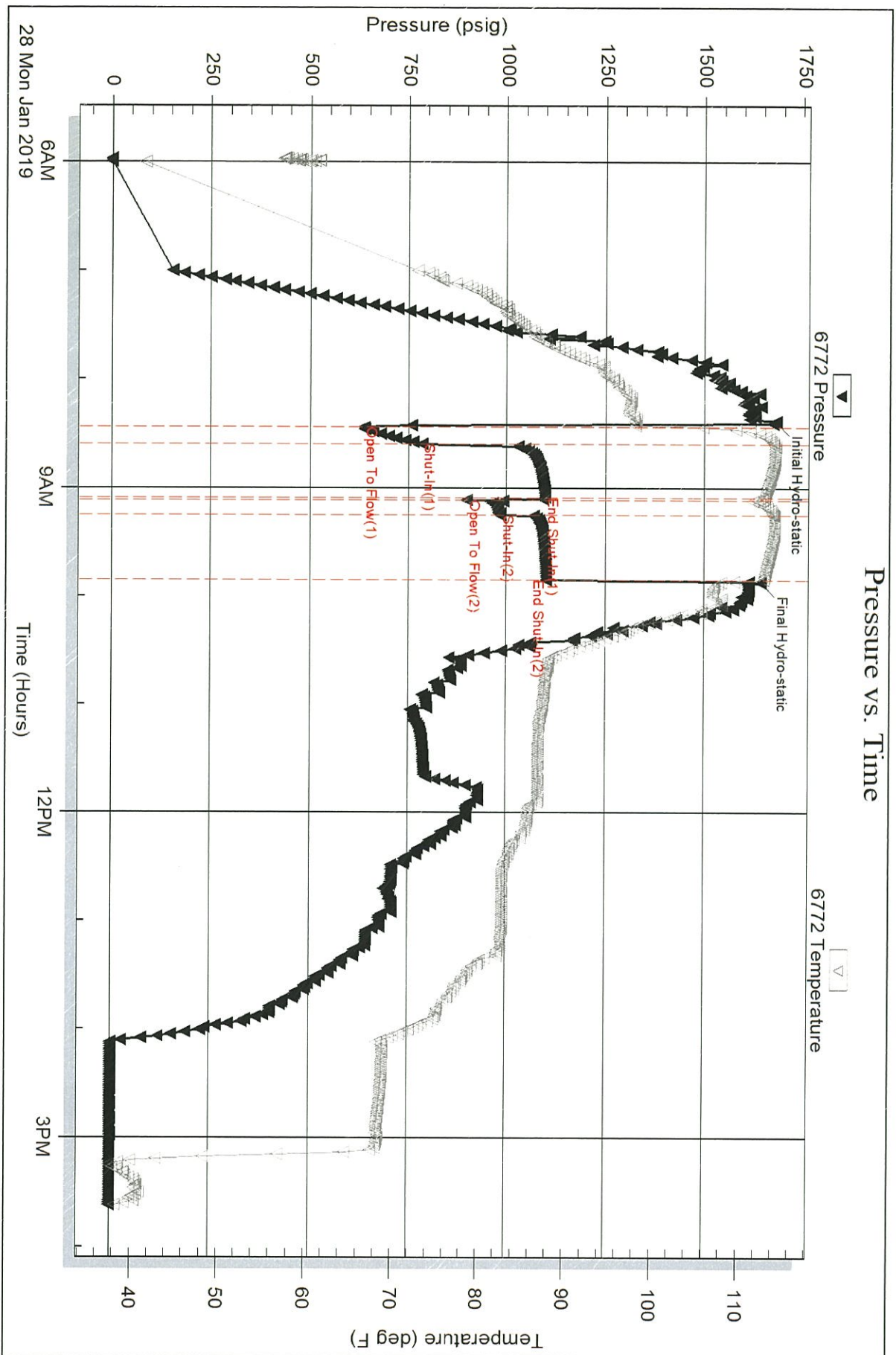
Length ft	Description	Volume bbl
120.00	G.W.M.C.O. 10%G 10%W 10%M 70%O	0.627
2080.00	G.M.C.O. 10%G 10%M 80%O	29.177
0.00	60' GIP	0.000

Total Length: 2200.00 ft Total Volume: 29.804 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: dropped bar and reversed 800 ft oil out / GIP 60'



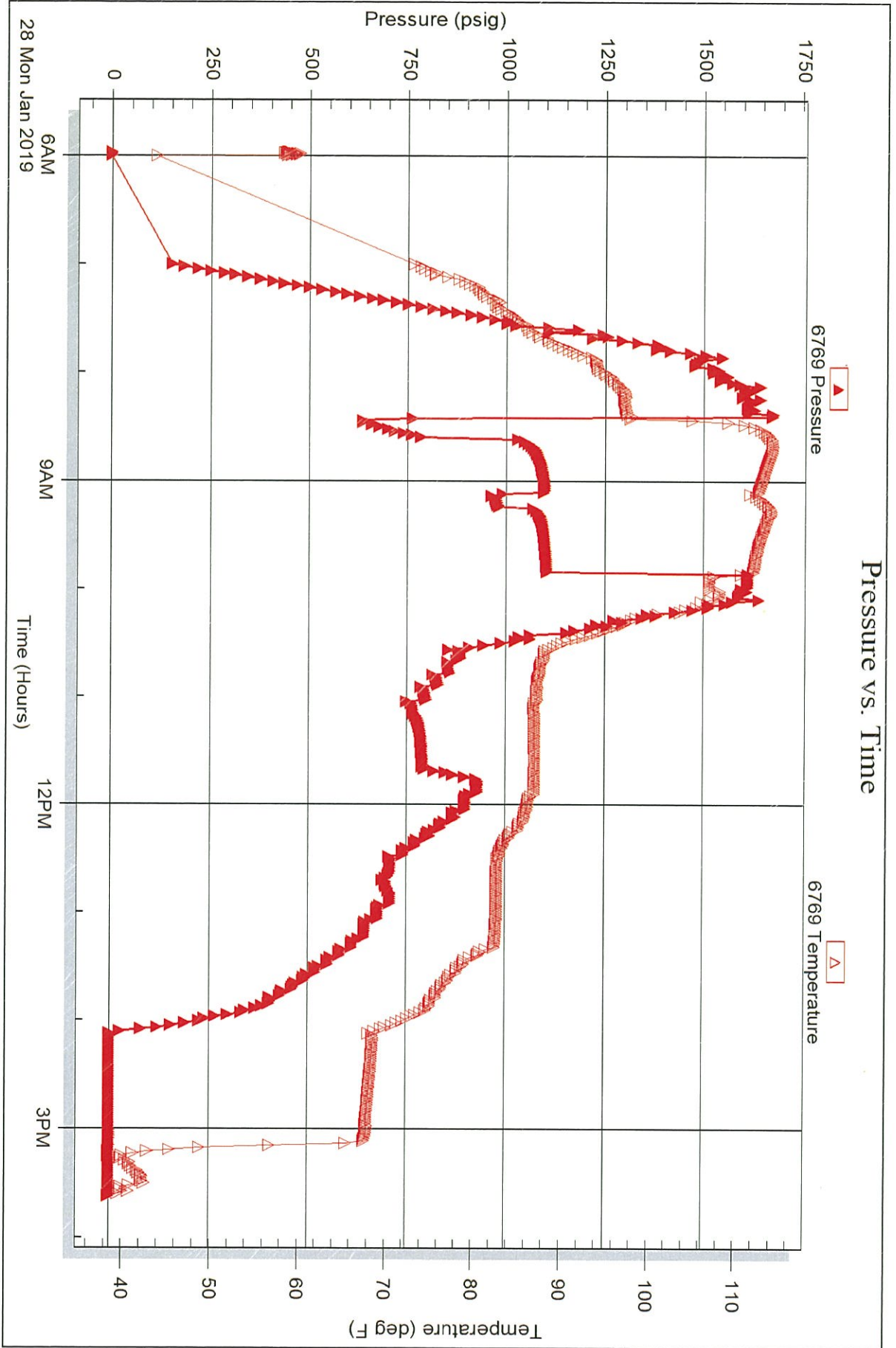
Serial #: 6769

Outside

Palomino Petroleum Inc

Christians #2

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64982

Well Name & No. Christians #2 Test No. DST 1 Date 1-28-2019
 Company Palomina Petroleum Inc Elevation 1933 KB 1922 GL
 Address 4924 SE 84th St Newton KS 67114-8827
 Co. Rep / Geo. Eli Felts Rig WW 14
 Location: Sec. 20 Twp 16S Rge. 12W Co. Barton State KS

Interval Tested 3358'-3405' Zone Tested Arbuckle
 Anchor Length 47' Drill Pipe Run 3506 Mud Wt. 8.9
 Top Packer Depth 3353' Drill Collars Run 116 Vis 46
 Bottom Packer Depth 3358' Wt. Pipe Run --- WL 10.4
 Total Depth 3405' Chlorides 10,800 ppm System LCM Tr

Blow Description I.F. - BOB 12 seconds total build of 355"
ISI - no blow back
F.F. - BOB 8 seconds total build of 135"
FSI - a weak blow back that died in 20 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>2080'</u>	<u>G.M.C.O</u>	<u>10</u>	<u>80</u>	<u>10</u>	<u>10</u>
<u>120'</u>	<u>G.W.M.C.O.</u>	<u>10</u>	<u>70</u>	<u>10</u>	<u>10</u>
<u>---</u>	<u>GIP 60'</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

Rec Total 2200' BHT 108° Gravity 35 API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>1680</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>4:45</u>
(B) First Initial Flow <u>636</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:58</u>
(C) First Final Flow <u>784</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:25</u>
(D) Initial Shut-In <u>1099</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>15:38 9:50</u>
(E) Second Initial Flow <u>899</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>15:38</u>
(F) Second Final Flow <u>985</u>	<input checked="" type="checkbox"/> Mileage <u>54RT x 2 54+54</u>	Comments <u>Shut in tool is stuck shut</u>
(G) Final Shut-In <u>1102</u>	<input type="checkbox"/> Sampler <u>---</u>	<u>Loaded tool 1-29-2019 10:</u>
(H) Final Hydrostatic <u>1644</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> EM Tool <u>---</u>

Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>1483</u>
	Sub Total <u>1483</u>	MP/DST Disc't <u>---</u>

Approved By _____ Our Representative Benny Mulligan

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