

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

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	WILBORN 3
Doc ID	1459533

All Electric Logs Run

Dual Induction
Micro
Litho Density Neutron
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	WILBORN 3
Doc ID	1459533

Tops

Name	Top	Datum
Anhy.	815	(+1108)
Base Anhy.	842	(+1081)
Howard	2726	(- 803)
Topeka	2764	(- 841)
Heebner	3048	(-1125)
Toronto	3065	(-1142)
Brown Lime	3139	(-1216)
Lansing	3159	(-1236)
BKC	3388	(-1465)
Arbuckle	3400	(-1477)
LTD	3510	(-1587)



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

RECEIVED

JAN 22 2019

Invoice

DATE	INVOICE #
1/15/2019	27784

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	#3	Wilborn	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				4	Gallon(s)	42.00	168.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00
281	Mud Flush				500	Gallon(s)	1.50	750.00T
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							8,932.54
	Sales Tax Barton County						7.50%	469.07

We Appreciate Your Business!

Total

\$9,401.61



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

TICKET 27784
 PAGE 1 OF 2

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

WELL/PROJECT NO. #3 LEASE Wilborn COUNTY/PARISH Barton STATE KS CITY _____
 TICKET TYPE SERVICE SALES CONTRACTOR W.W. Drilling Inc RIG NAME/NO. #14 SHIPPED VIA CT DELIVERED TO Location
 WELL TYPE D-1 WELL CATEGORY _____ JOB PURPOSE Cement Long String WELL PERMIT NO. _____
 REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE	60	mi			5.00	300.00
578		1			Mileage #113	1	EA			1300.00	1300.00
290		1			Pump Charge - Long String	4	gal			42.00	168.00
221		1			D-Air	4	gal			25.00	100.00
281		1			Liquid KCL	1	500 gal			1.50	750.00
456		1			Mud Flush	1	EA		5 1/2"	250.00	250.00
407		1			Latch Down Plug + Bottle	1	EA			325.00	325.00
409		1			Insert Float Shoe w/ Auto Fill	7	EA			85.00	595.00
419		1			Turbo Lizer	1	EA			200.00	200.00
					Relating Head Rental	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 _____
 A.M. P.M.
 SWIFT OPERATOR _____ 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? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

DATE 01/15/19 ORDER NO. _____

WELL LOCATION _____

OWNER _____

Page 1 of 2
 Page 2
 TOTAL 9401.61

Thank You!



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

TICKET CONTINUATION

TICKET No. 27784

CUSTOMER: _____ WELL: _____ DATE: _____ PAGE 1 OF 1

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	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				Calsea 1	5	SKS			35.00	175.00
283		2				Salt	550	lbs			0.20	110.00
285		2				CFR-1	58	lbs			4.50	225.00
276		2				Flocele	50	lbs			2.50	125.00
581		2				Service Charge Cement					1.25	393.25
583		2				MILEAGE CHARGE TOTAL WEIGHT 22923					0.95	584.54
						LOADED MILES 68						
						TON MILES 687.69						
CONTINUATION TOTAL												4944.54

JOB LOG

SWIFT Services, Inc.

DATE 01/15/19 PAGE NO. 1

CUSTOMER Palomine Petroleum		WELL NO. #3	LEASE Wilborn	JOB TYPE Long String	TICKET NO. 27784
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							On location w/ Float Equipment Rig laying Down Drill Pipe.
								RTD - 3509'
								LTD - 3510'
								Total Pipe - 88 JTs
								4 JTs out - 81, 84, 87, 88
								Total Pipe Ran - 3511.13'
								Shoe It - 42.47'
								5 1/2" - 17#
								Centralizers - Turbo's - 1, 3, 5, 7, 9, 11, 13
	2020							Start Pipe w/ Float Equipment
	2215							On Bottom, Break Circulation
	2340							Hook up to Swift
	2345	2	7					Plug Rathole w/ 30 SKS
								Plug Mousehole w/ 15 SKS No Mousehole
	2350	5	12			400		Pump Mud Flush
		5	20			400		Pump KCl Spacer
	2355	5				400		Start SMD Cement
	0005	5	50					Fin SMD, start EA-2 Cement
	0015	5	74			Vac.		Fin Cement
								Drop Plug
								Washout Pump + Lines
	0020	7				Vac.		Start Displacement
		7	52			400		Catch Gmt
	0030	6	80 1/2			900 / 1500		Land Plug Lift PSI 900 # Land PSI 1500 #
	0035							Release Truck, Dry
								Washup
								Rack up
	0055							Job Complete

Thanks
Jon, Austin, Isaac

RECEIVED

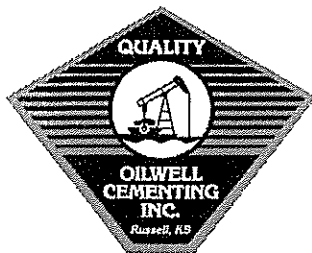
JAN 14 2019

Date: 1/9/2019
Invoice # 1171

P.O.#:

Due Date: 2/8/2019

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:
WILBORN 3 SEC 5-17-12

Description of Work:
SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	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	24	\$ 79.62	No				
Premium Gel (Bentonite)	3	\$ 64.13	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 61.92	No				

Invoice Terms:

Net 30

SubTotal: \$ 3,674.99
Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (91.87)

SubTotal for Taxable Items:	\$ 2,667.28
SubTotal for Non-Taxable Items:	\$ 915.83
Total:	\$ 3,583.12
Tax:	\$ 200.05

7.50% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,783.17
Applied Payments:
Balance Due: \$ 3,783.17

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.

cement for surface pipe on #3

12/31

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. 1171

Date	1-9-99	Sec.	5	Twp.	17	Range	12	County	Barton	State	Ks	On Location		Finish	11:00PM
------	--------	------	---	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Location *Beaver - 35, 3/4 W, N1 Int*

Lease *Wilborn* Well No. # *3* Owner

Contractor *WW #14* To Quality Oilwell Cementing, Inc.
Type Job *Surface* You are hereby requested to rent cementing equipment and furnish
cementer and helper to assist owner or contractor to do work as listed.

Hole Size *12 1/4"* T.D. *382'* Charge To *Palamino Petroleum*

Csg. *8 5/8"* Depth *382'* 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 *2 3/4 BLS*

EQUIPMENT

Pumptrk <i>16</i> No.	Cementer	Common <i>145</i>
	Helper <i>David</i>	Poz. Mix <i>35</i>
Bulktrk <i>3</i> No.	Driver <i>Tony</i>	Gel. <i>3</i>
	Driver <i>Rick</i>	Calcium <i>7</i>

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*

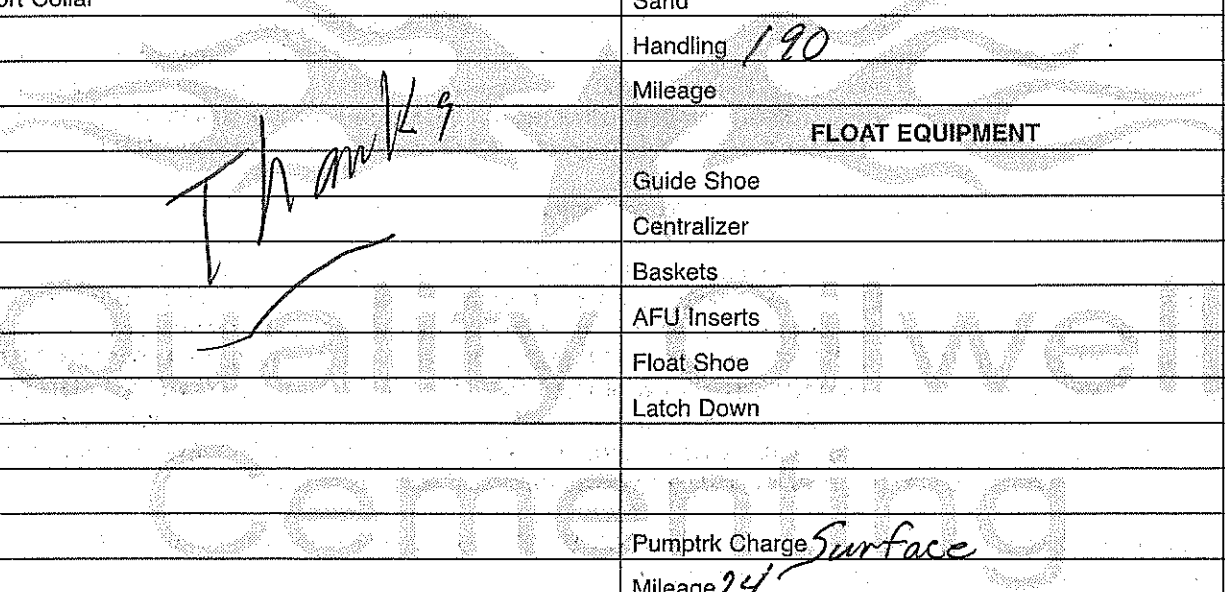
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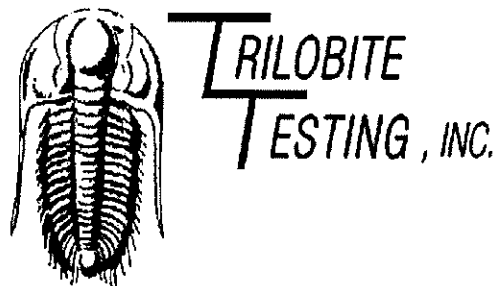
Signature *John Chan*

Tax

Discount

Total Charge





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton KS 67114+8827

ATTN: Eli Felts

Wilborn #3

5-17s-12w Barton,KS

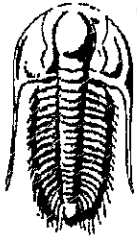
Start Date: 2019.01.14 @ 09:08:00

End Date: 2019.01.14 @ 17:32:00

Job Ticket #: 64981 DST #: 1

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

Printed: 2019.01.15 @ 16:49:20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

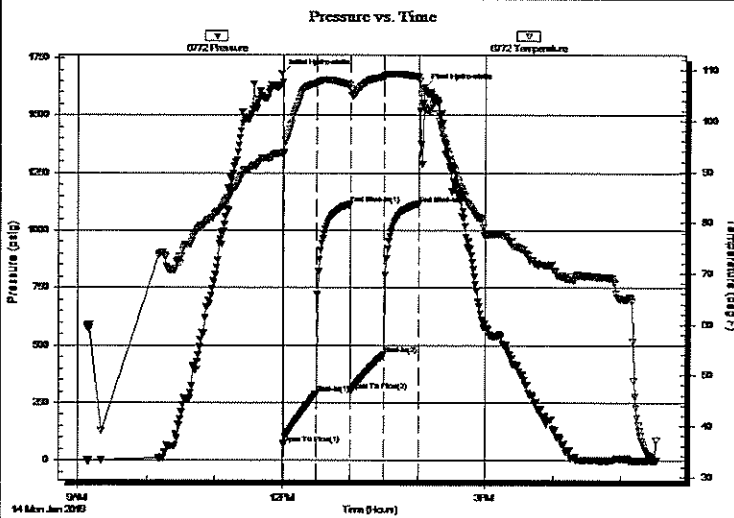
5-17s-12w Barton,KS
Wilborn #3
 Job Ticket: 64981 DST#: 1
 Test Start: 2019.01.14 @ 09:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:00:50 Tester: Benny Mulligan
 Time Test Ended: 17:32:00 Unit No: 66
 Interval: **3358.00 ft (KB) To 3409.00 ft (KB) (TVD)** Reference Elevations: 1923.00 ft (KB)
 Total Depth: 3409.00 ft (KB) (TVD) 1912.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 460.28 psig @ 3359.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.14 End Date: 2019.01.14 Last Calib.: 2019.01.14
 Start Time: 09:08:01 End Time: 17:32:00 Time On Btm: 2019.01.14 @ 11:59:00
 Time Off Btm: 2019.01.14 @ 14:05:20

TEST COMMENT: I.F.-30- BOB 2 mins 50 seconds total build of 84"
 I.S.I.-30- weak blow back
 F.F.-30- BOB 2 mins 25 seconds total build of 74"
 F.S.I.-30- weak blow back that died



PRESSURE SUMMARY

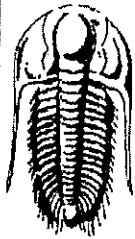
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.98	93.71	Initial Hydro-static
2	68.91	93.57	Open To Flow (1)
32	289.98	107.34	Shut-In(1)
62	1112.85	107.04	End Shut-In(1)
63	304.36	106.31	Open To Flow (2)
92	460.28	108.77	Shut-In(2)
123	1114.79	108.71	End Shut-In(2)
127	1618.28	102.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
256.00	HOCM. 40%O 60%M	2.57
1024.00	GO 30%G 70%O	14.36
0.00	GIP 64'	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: Eil Felts

5-17s-12w Barton,KS
Wilborn #3
Job Ticket: 64981 DST#: 1
Test Start: 2019.01.14 @ 09:08:00

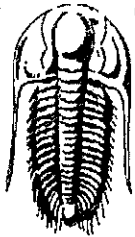
Tool Information

Drill Pipe:	Length: 3241.00 ft	Diameter: 3.80 inches	Volume: 45.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 112.00 ft	Diameter: 2.25 inches	Volume: 0.55 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 46.01 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3358.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	78.00 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	13.00			3372.00	
Change Over Sub	1.00			3373.00	
Drill Pipe	32.00			3405.00	
Change Over Sub	1.00			3406.00	
Bullnose	3.00			3409.00	51.00 Bottom Packers & Anchor

Total Tool Length: 78.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

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

5-17s-12w Barton,KS
Wilborn #3
Job Ticket: 64981 **DST#: 1**
Test Start: 2019.01.14 @ 09:08:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	25 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
256.00	HOCM. 40%O 60%M	2.571
1024.00	GO 30%G 70%O	14.364
0.00	GIP 64'	0.000

Total Length: 1280.00 ft Total Volume: 16.935 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6772

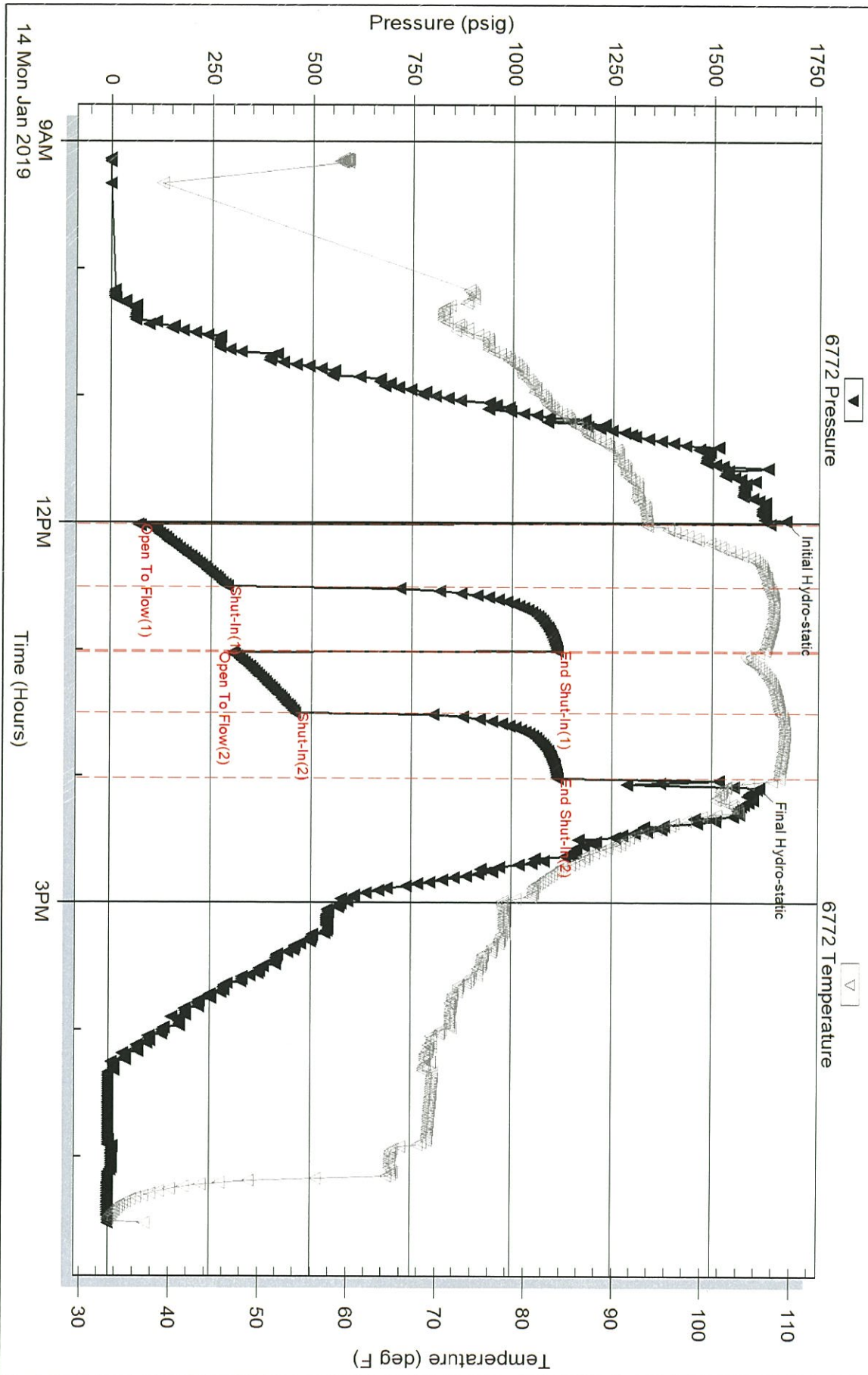
Inside

Palomino Petroleum Inc

Wellbore #3

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 64981

Printed: 2019.01.15 @ 16:49:21

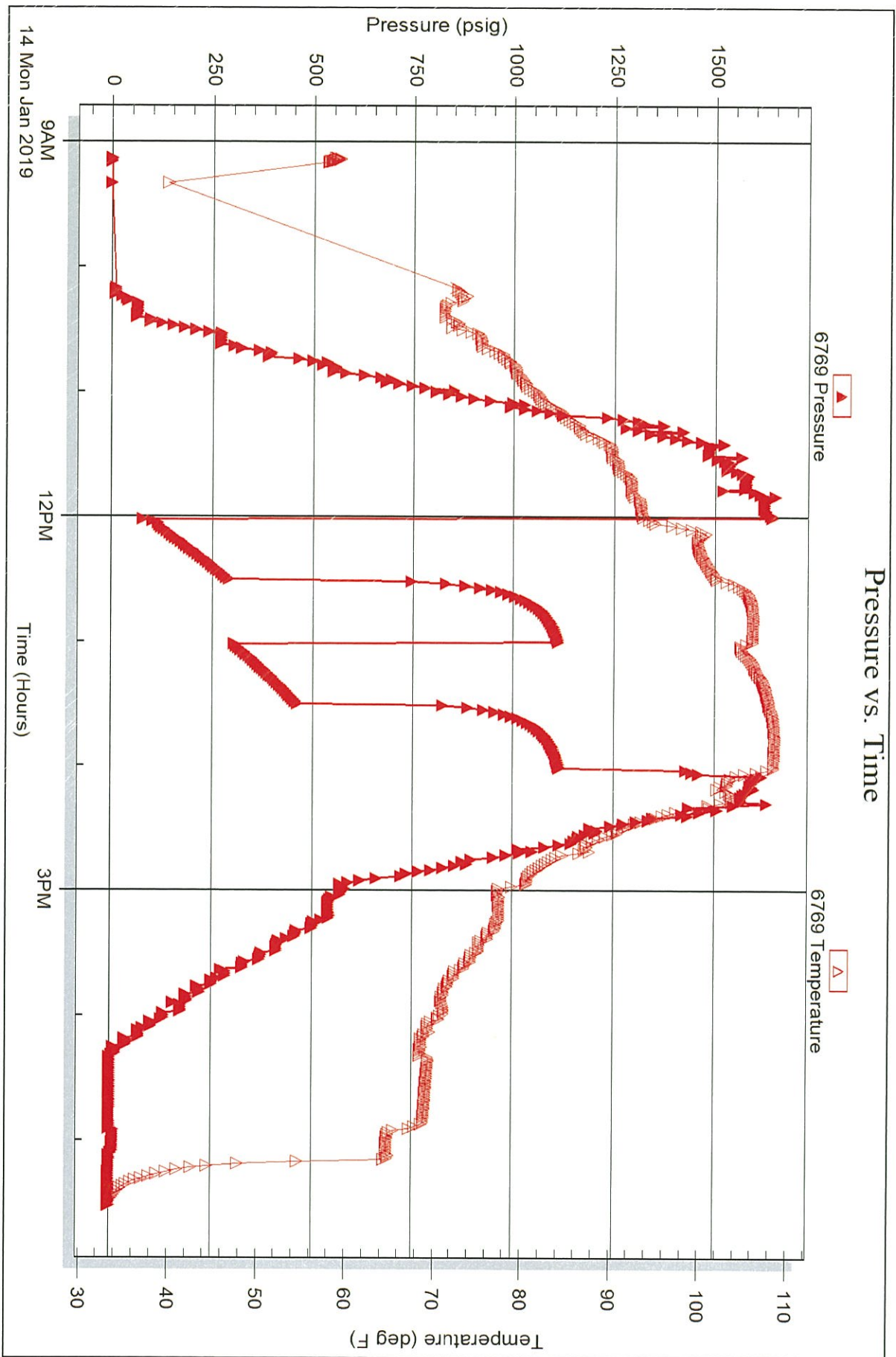
Serial #: 6769

Outside

Palomino Petroleum Inc

Wellbore #3

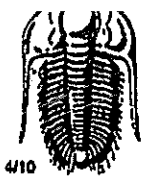
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64981

Printed: 2019.01.15 @ 16:49:21



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64981

Well Name & No. Wilborn #3 Test No. 1 Date 1-14-2019
 Company Palomino Petroleum Inc Elevation 1923' KB 1912' GL
 Address 4924 SE 84th St Newton KS 67114+8827
 Co. Rep / Geo. Eli Felts Rig W.W. 14
 Location: Sec. 5 Twp 17s Rge. 12w Co. Barton State KS

Interval Tested 3358'-3409' Zone Tested Arbuckle
 Anchor Length 51' Drill Pipe Run 3241 Mud Wt. 9.4
 Top Packer Depth 3353 Drill Collars Run 112' Vls 51
 Bottom Packer Depth 3358 Wt. Pipe Run — WL 11.2
 Total Depth 3409 Chlorides 8,800 ppm System LCM Tr

Blow Description I.F. - BOB 2mins 50 seconds total build of 84"
I.S.I. - weak Blow back
F.F. - BOB 2mins 25 seconds total build of 74"
F.S.I. - weak Blow back that died

Rec	Feet of	%gas	%oil	%water	%mud
<u>1024'</u>	<u>G.O.</u>	<u>30</u>	<u>70</u>		
<u>256</u>	<u>O.M.</u>		<u>40</u>		<u>60</u>
<u>64' G.I.P.</u>					

Rec Total 1280' BHT 102 Gravity 25 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>1680</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>7:00</u>
(B) First Initial Flow <u>68</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:08</u>
(C) First Final Flow <u>289</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:01</u>
(D) Initial Shut-In <u>1112</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>14:01</u>
(E) Second Initial Flow <u>304</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:32</u>
(F) Second Final Flow <u>460</u>	<input checked="" type="checkbox"/> Mileage <u>46 mi. RTX2</u>	Comments <u>Loaded tool 1-15-20</u>
(G) Final Shut-In <u>1114</u>	<input type="checkbox"/> Sampler <u>46+46</u>	<u>13:00</u>
(H) Final Hydrostatic <u>1618</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1467</u>
	Sub Total <u>1467</u>	MP/DST Disc't

Approved By _____ Our Representative Benny Mulligan

Tribolite Testing Inc. shall not be liable for damaged or 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: Wilborn #3

API: 15-009-26248

Location: NE - SE - SW - NW of Sec. 5 17s 12W

License Number: 30742

Spud Date: 1/8/2019

Surface Coordinates:

NAD 27 KGS : X = 1948906.00 , Y = 702286.00

NAD 83, Lat = 38.595220722, Long = 98.679114228

Same as surface coordinates

Bottom Hole

Coordinates:

Ground Elevation (ft): 1912'

Logged Interval (ft): 2600'

Type of Drilling Fluid: Chemical Drispac

K.B. Elevation (ft): 1923'

To: 3509' Total Depth (ft): 3509'

Formation: Arbuckle Dolomite @ Total Depth

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: efelts47@gmail.com, C: 316.204.5059

Formation Tops

SAMPLE TOPS

ANHY (+1135)
BASE ANHY 814 (+1109)

LOG TOPS

ANHY 815 (+1108)
BASE ANHY 829 (+1081)

Pipe Setting

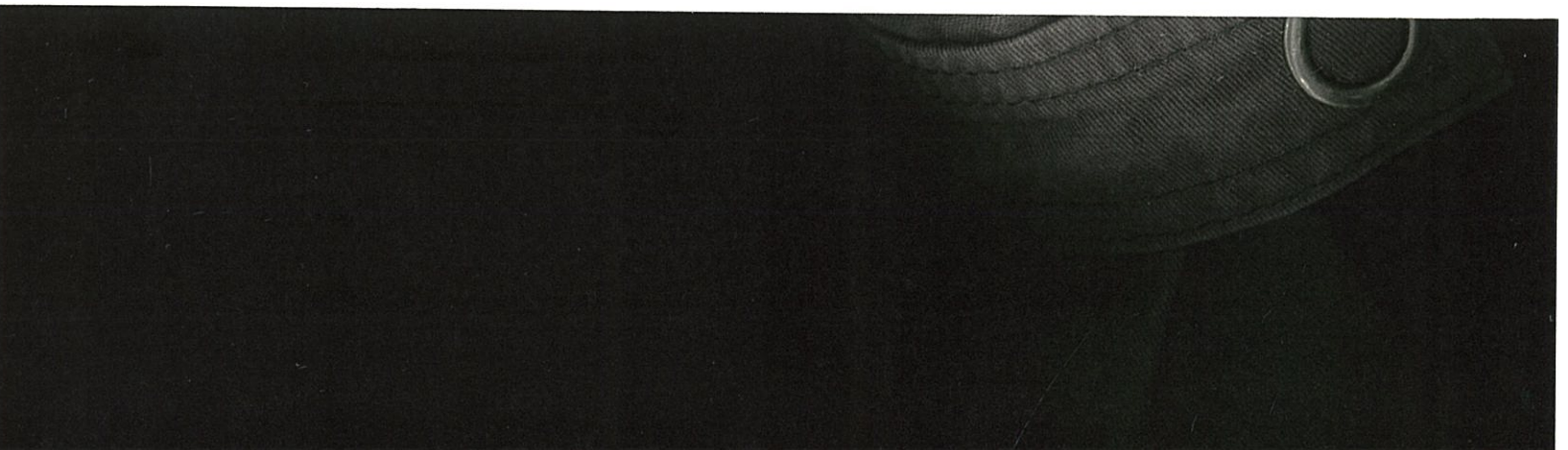
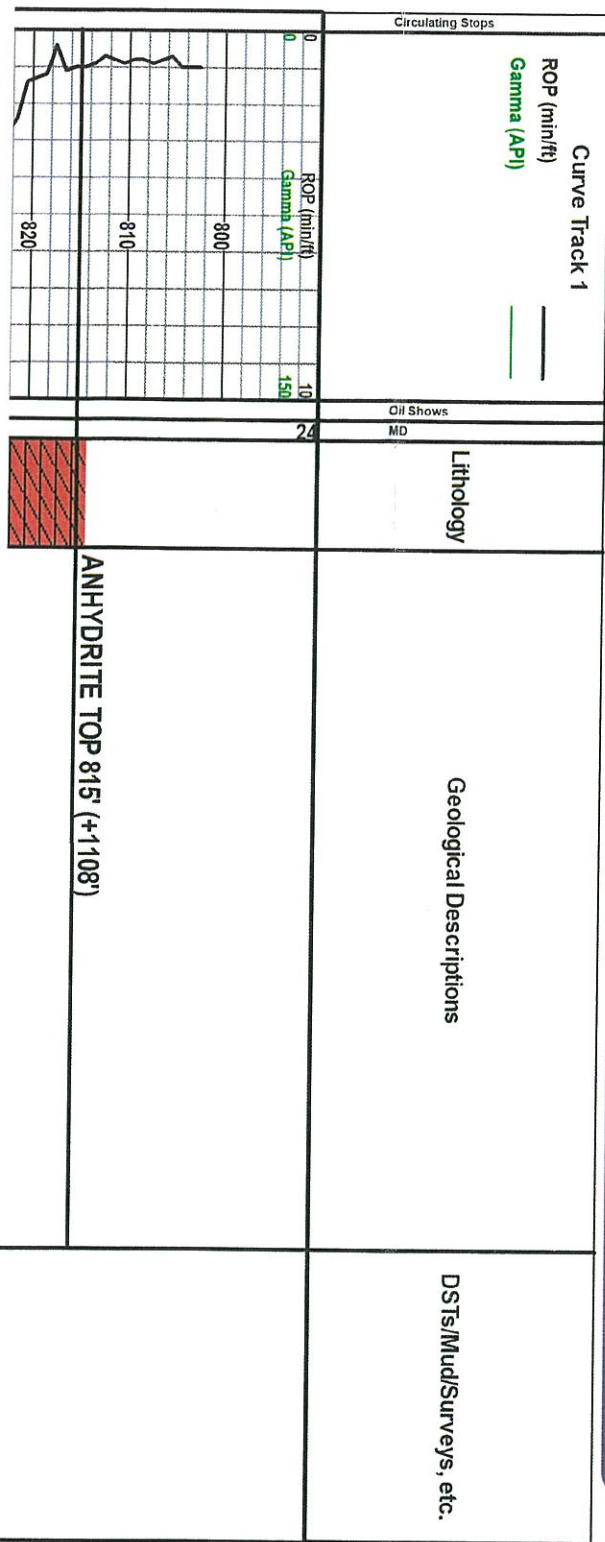
Ran (9) jts. new 8 5/8ths 23# surface pipe set @ 382' and cemented with 180 sacks Common, 2% gel, 3% cc. Cement did circulate.

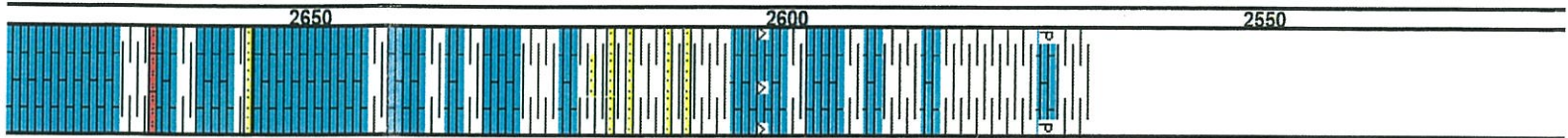
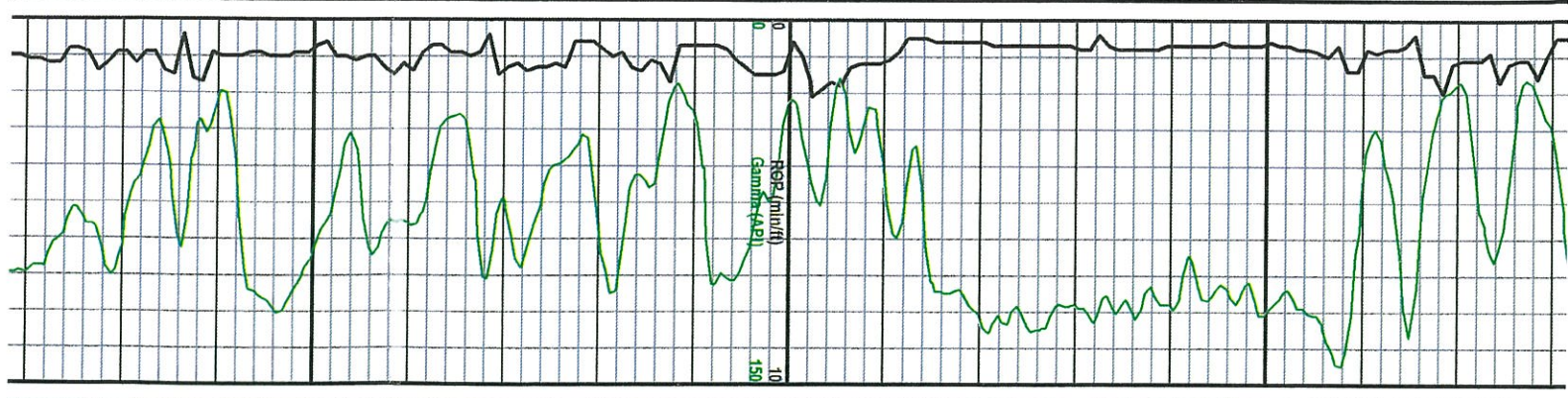
DSTs

DST #1 - Arbuckle
 Interval: 3358'-3409' (51' Anchor)
 Test Times: 30-30-30-30
 IF: BOB in 2 min 50 seconds
 ISI: wk surface blow - never died
 FF: BOB in 2 min 25 seconds
 FSI: wk bb, died
 Recovery: 1280' TF + 64' GIP
 1024' GO (70% O) 256' OM (40% O)
 SIP: 1112-1114#
 FP: 68-289# to 304-460#
 Hydrostatic: 1680-1618
 Temp: 102 deg F
 Gravity: 25 API

ROCK TYPES

	Anhy		Coal		Lmst		Shcol		Cfs
	Bent		Congl		Meta		Shgy		
	Brec		Dol		Mrlst		Slkst		
	Cht		Gyp		Salt		Ss		
	Clyst		Igne		Shale		Till		





SH - lt grey to grey, soft; LS - cream, fine xln; sil dolomitic ip; abundant pyrite in tray

LS - cream, fine to med xln, dense, occ foss; grey, few chert; abundant soft grey shales

LS - mostly cream, lt grey, fine to med xln, dense; foss ip; sil increase CH; abundant grey shales; silty to sub-sandy ip

LS - cream to grey, fine to med xln; abundant foss; ool ip; few trans micro-xln & CH - white to grey; vitreous; scatt giv shales

Flood SH - lt grey, v. soft; globular & mushy; tray won't wash clean; fine dark material floccs in tray & shale; rare pc. SS - lt grey; claybound matrix w/ dark org material visible; poorly friable

SH & interbedded SS - lt grey; overall soft & mushy; washes grey; few pos w/ visible laminations w/ shale to SS contact; fine xln, sub anglr; poor friability; shale dominated

LS - cream to greys, fine to med xln, dense in most; some argillaceous ip; scattered lt grey shale (soft) & lt grey to white chalky material

LS - cream, fine to med xln, abundant shales & argillaceous LS; few pos w/ abundant dark grey oolites; trace sandy sh throughout

LS - cream, fine xln, dense & lithographic; transition to LS - cream to bwn, fine to med xln, foss & dense; ~60% grey shales & siltstone

LS - cream to brown, mostly fine xln w/ abdt foss, dense; calc xln growth in some, ~40% shales

Conn @ 2533'

Conn @ 2565'

10' Samples Start @ 2800'

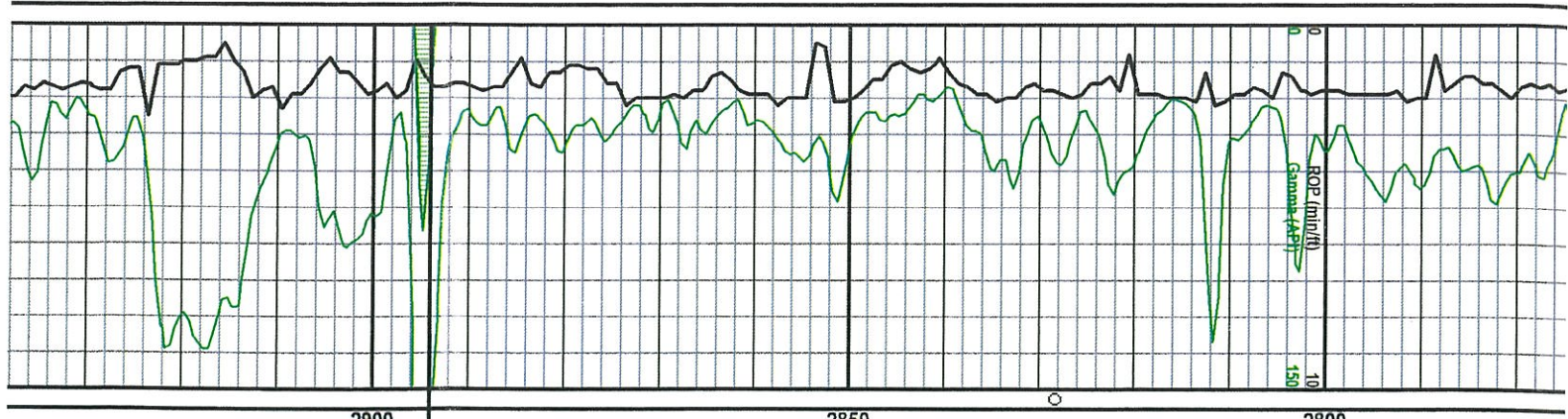
Conn @ 2597'

Conn @ 2628'

WT-8.6 / VS-49 / LCM-1#

Switch to 16' Samples @ 2650'

Conn @ 2660'



LS - grey-tan-brown, fine xln, abdt foss, blocky & dense, no visible porosity

Conn @ 2787'

LS - cream to grey-brown, fine xln; foss; mostly blocky & dense; trace pyrite xln dev & few pos lt green shale

Resume 10' Samples @ 2800'

LS - cream to lt grey, some brown; mostly fine xln, lithographic w/ few foss; several w/ green, glauconitic mineralization; few pos blocky green shale & dark grey shale

LS - cream to grey, tan - brown, fine to med xln; foss, argillaceous in some; overall blocky & dense; trace pyrite

Conn @ 2819'

LS - cream to grey, tan & brown; mostly fine xln; foss in part; mostly dense; trace questionable staining; no visible Hydrocarbon fluor, or cut

WT-8.7 / VIS-50 / LCM-1#

LS - cream to tan, fine to micro xln; some foss; re-xln sparite development throughout; overall dense w/ poor visible porosity abundant large cuttings of SH - grey, blocky & firm

Conn @ 2851'

LS - cream to lt grey/tan; fine to micro xln; sub-chert; sharp edges; sl. Foss in part; decrease re-xln porosity; dense

LS - cream to brown, fine to micro xln; sl foss; overall lithographic; v. dense; occasional calcite xln development

LS - cream to tan, lt brown; fine xln; sl sucrosic; dolomitized appearance in some (strong reaction HCL); few pos w/ lt brown to golden staining; no odor; no fluor; no cut

Changed Head on mud-pump.
10:45 pm 2882' Down ~1.75 Hours
Conn @ 2882'

LS - most AA; increase tan to brown, some med xln; several veins sparite & intrafoss porosity; fair friability in re-xln pos; barren

King Hill 2894' (-971')

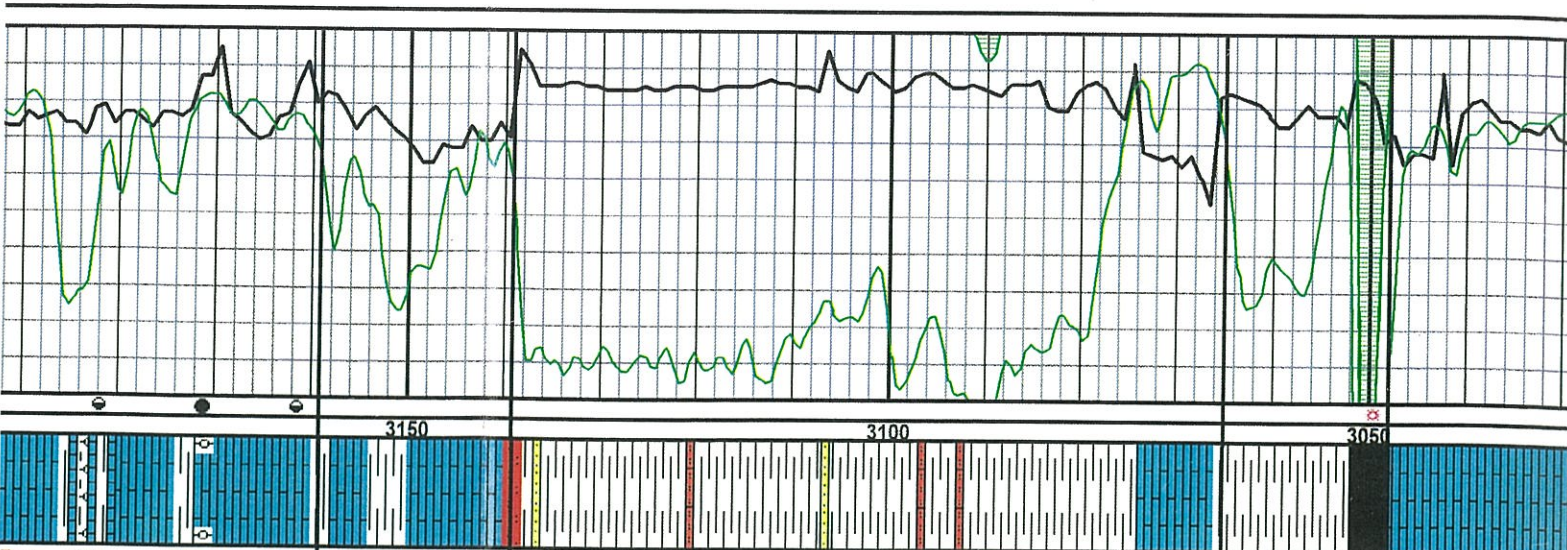
LS - cream - tan - brown; fine to micro xln; foss w/ scatt re-xln sparit; few traces SH - black, carb w/ micaceous & pyritic inclusions; vsssg

LS - cream to lt grey; fine & micro xln; foss; few pos CH - white to lt grey; foss, vitreous; some pos LS - argillaceous; some blocky, firm shales; grey-green

LS - cream to grey; fine xln - micro & cherty ip; argillaceous LS & grey - green shales

Conn @ 2914'

LS - cream to grey; tan; fine to med xln; transition to lt grey foss chert ip; dense, chalky ip



LS - mostly cream, med xln, foss w/ some intra foss & re-xln porosity; barren; sl residual stain in few pos; lt brown; no odor; fluor. or calc. no live show

Heebner 3048' (-1125')
SH - dark brown to black; earthy, organic; bleeds gas; abdt white chalky material on edges

SH - grey dark grey, laminated; sl fissile, firm

Toronto 3065' (-1142')
LS - cream to brown; fine to micro xln; some chert; foss lp, dense, sharp & blocky

SH - grey to dark gry, green, silty & soft; sm mottled

SH - varicolored; greys, green, some brick red, lt yellow; sl silty & soft

SH

SH

Brown Lime 3139' (-1216')
LS - dark tan to brown; fine to micro xln, foss, dense; few re-xln foss & pyritic; cherty lp

LS - dark tan to brown; fine to micro xln, foss lp, dense; blocky

Lansing 3159' (-1236')
LS - white to lt cream; fine xln, platy & lithographic; few pos w/ small vuggy & edge porosity; SS dark brown; heavy oil (no loose droplets) dull yellow fluor w/ instant milky streaming cut; no odor

LS - white to lt cream & grey; fine to sl med xln w/ sl. Granular appearance; few pos w/ intra ool & ool porosity; fair to good friability w/ lt brown free oil drops in few, increase w/ crush. Dull yellow fluor w/ instant milky streaming cut; no odor

LS - cream to brown; fine to med xln; ool & ool porosity lp, mostly foss w/ poor intrafoss xln porosity; vsto in few; decreasing; mostly dense; no odor; sl scatt dull ylw fluor

LS - cream to lt grey; fine xln w/ slight granular texture in part; few micro-oolite clusters w/ tightly bound matrix; few pos w/ edge pp to sm varicolored porosity; med brwn free oil streams; light brown to oolid on

Comm @ 3041'
11/3/2019
7 AM Hole Depth @ 3046'
VIS 48 WT 9.2 LCM #1

Comm @ 3073'

Comm @ 3105'
VIS 53 WT 9.2 LCM #1

Comm @ 3137'
Rig Service:
Change Oil (generator),
Down ~15 minutes.

Comm @ 3169'
VIS 61 WT 9.4 LCM #1

Mid-Co Report
Time: 11:15 AM
Depth: 3157'
WT: 9.4
Vis: 51
LCM: <#
WT: 11.2
CHL: 8800

LS - cream to lt grey, med xln; sm sl ooc porosity; barren; few pos transition CH - white to grey; foss; vitreous; shaley (gry, soft)

LS - cream to grey; fine to micro xln; foss; dense, cherty ip; mottled shales; matron-y/w-gm

LS - mostly cream, fine xln, tan to brown, med xln w/ heavy foss; partial re-xln fractures; grey to black mottled shales w/ pyritic inclusions

LS - cream to tan, fine to micro xln; abundant ooids, re-xln sparite in some; dense, poor vis porosity

LS - mostly cream, fine xln; some tan, sl foss; few pos w/green hue; pyrite replacement in some w/ some loose xln pyrite

LS - cream - gry - brown; fine to micro xln; few CH - foss ip w/ some argillaceous LS w/ green hue; abundant shales & pyritized shales

SH - lt to med grey to green, mottled in part; mostly firm & blocky; few pos limey (1 pc white LS w/ fair show dark brown oil - caving ?)

LS - cream to lt grey, mostly fine xln, foss ip; mostly dense (2-3) pos w/ pp to small vuggy porosity; vssso w/ increase on break; slow weeping cut w/ dull yellow fluor

LS - cream to lt grey; mostly fine xln; trans to brown, med xln; foss & argillaceous ip; sm ooids & ooc porosity

LS - cream to lt grey, fine xln; few pos foss w/ sm ooc porosity; chalky; shaley; few pos black, carb SH

B/KC 3388' (-1465')
LS - mostly cream; fine xln; some argillaceous w/ red & green hue; sl foss ip; trace SS - white to lt grey clusters; v. fine grained sl friable; glauc inclusions

Arbuckle 3400' (-1477')
Dolomite - cream to white, v fine xln; dense; appears barren
Dol - cream to white, fine xln - sucrosic w/ few med xln on edge pcs (fractures); ssio on few edge pcs; increase on break; no odor; instant streaming cut w/ bright yellow fluor
Dol - cream, fine xln - sucrosic; some pp & sm vuggy porosity w/ fair show lt brown to golden tree oil; cozes out with slight pressure, scatters on break; bright yellow fluor w/ inst milky streaming cut
Dol - cream to white - lt grey; fine xln - sucrosic, few w/ med-large ool w/ good interxln porosity; good friability; sm pcs w/ vuggy & re-xln porosity; some med grained rhombic xln growth; show appears as dark specks; pools yellow/orange on break; fair dull y/w flour w/ wk-fair slow weeping cut show degrades with depth
Dol - cream to buff, lt grey; med med xln, rhombic; few pcs w/ vuggy porosity; mostly interxln; good friability; abundant chalk; trace pcs w/ ssio, appear to be caving; overall barren w/ v. faint odor

Dol - cream to grey, med - coarse xln; rhombic w/ good visible porosity; fair to good friability in most abundant chalk; trace vitreous CH - white to lt grey; sl odor in cup; nsfo

Conn @ 3296

WT-9.3 /VIS-64/LCM-#1

Conn @ 3327

WT-9.3+ /VIS-62/LCM-1#

Losing Pit Volume

Conn @ 3399

DST #1 - Arbuckle
Interval: 3398'-3409' (61' Anchor)
Test Times: 30:30-30:30
IF: BOB in 2 min 50 seconds
SI: wk surface blow - never died
FF: BOB in 2 min 25 seconds
FSI: wk hb, died
Recovery: 1280' TF + 64' GP
1024 G0 (70% O) 256 OM (40% O)
SIP-1112-1114#
FP-68-268# to 304-460#
Hydrostatic: 1680-1618
Temp: 102 deg F
Gravity: 25 API

Conn @ 3391

WT-9.0+ /VIS-66/LCM-2#

Multi-Cell Report
Time: 7:35 AM
Depth: 3409'
WT: 9.0
Vis: 65
LCK: 1#
WL: 72
CHL: 6200

Conn @ 3427

WT-9.2 /VIS-68/LCM-2#

