KOLAR Document ID: 1462228

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 #		API No.:		
Name:		Spot Description:		
Address 1:				
Address 2:		Feet from \square North / \square South Line of Section		
City: Sta	te:+	Feet from		
Contact Person:		Footages Calculated from Nearest Outside Section Corner:		
Phone: ()		NE NW SE SW		
CONTRACTOR: License #		— GI O Eddulott. Edit, Editg		
Name:		(e.g. xx.xxxxx) (e.gxxx.xxxxxx)		
Wellsite Geologist:				
Purchaser:		County:		
Designate Type of Completion:		Lease Name: Well #:		
New Well Re-E	Entry Workover	Field Name:		
		Producing Formation:		
		Elevation: Ground: Kelly Bushing:		
	Producing Formation:			
	Gas □ DH □ EOR OG □ GSW □ CM (Coal Bed Methane) Total Vertical Depth: Plug Back Total Depth: Famount of Surface Pipe Set and Cemented at: Famount of Surface Pipe Set At:			
	Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No		
If Workover/Re-entry: Old Well Info	as follows:	If yes, show depth set: Feet		
Operator:		If Alternate II completion, cement circulated from:		
Well Name:		feet depth to:w/sx cmt.		
Original Comp. Date:	Original Total Depth:			
Deepening Re-perf.	Conv. to EOR Conv. to SWD			
☐ Plug Back ☐ Liner	Conv. to GSVV			
Commingled	Permit #:	Chloride content: ppm Fluid volume: bbls		
Dual Completion	Permit #:	Dewatering method used:		
SWD	Permit #:	Location of fluid disposal if hauled offsite:		
☐ EOR	Permit #:	Onevotev Name:		
GSW	Permit #:	Operator Name:		
		Lease Name: License #:		
Spud Date or Date Read	ched TD Completion Date or	Quarter Sec. Twp. S. R. East West		
Recompletion Date	Recompletion Date	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 Approved by: Date:

KOLAR Document ID: 1462228

Page Two

Operator Name:				Lease Name:		Well #:				
Sec Twp.	S. R.	E	ast West	County:						
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,		
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log		
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample		
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum		
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No							
		B	CASING eport all strings set-c		New Used	ion, etc.				
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives		
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD					
Purpose:		epth T Bottom	ype of Cement	# Sacks Used	Jsed Type and Percent Additives					
Perforate Protect Casi Plug Back T										
Plug Off Zor										
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,		
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)				
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity		
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom		
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT		
,	,			B.11 B1						
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record		
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:						
TODING RECORD:	. 3126.	Set	n.	i donei Al.						

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	CHRISTIANS 3
Doc ID	1462228

All Electric Logs Run

Borehole Compensated Sonic
Dual Receiver Cement Bond
Dual Induction
Litho Density Neutron
Micro Resistivity

Form	ACO1 - Well Completion				
Operator	Palomino Petroleum, Inc.				
Well Name	CHRISTIANS 3				
Doc ID	1462228				

Tops

Name	Тор	Datum
Anhy.	838	(+1094)
Base Anhy.	864	(+1068)
Howard	2707	(- 775)
Topeka	2744	(- 812)
Heebner	3022	(-1090)
Toronto	3038	(-1106)
Douglas	3048	(-1116)
Brown Lime	3108	(-1176)
Lansing	3121	(-1189)
ВКС	3370	(-1438)
Arbuckle	3377	(-1445)
LTD	3520	(-1588)

Form	ACO1 - Well Completion				
Operator	Palomino Petroleum, Inc.				
Well Name	CHRISTIANS 3				
Doc ID	1462228				

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	20	413	80/20	2% gel, 3% c.c.
Production	7.875	5.500	17	3507	SMD/EA-2	2% gel, 3% c.c.



Newton, KS 67114-8827

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



DATE	INVOICE#					
3/2/2019	27485					

RECEIVED

MAR 07 2019

Acidizing

Cement

Tool Rental

BILL TO	
Palomino Petroleum Inc.	
4924 S F 84th Street	

TERMS	Well No	Lease	County	Contractor	Well	Well Type		ell Category	Job Purpose	Operator
Net 30	30 #3 Christians Barton WW Drlg Rig #14		(Oil Deve		evelopment	Cement Long Str	Jonathan		
PRICE REF. DESCRIPTION					QT	QTY UM		UNIT PRICE	AMOUNT	
575D 578D-L		Mileage - 1 Way Pump Charge - Long	g String				1	Miles Job	5.00 1,300.00	300.00 1,300.00 168.007
290 281		D-Air Mud Flush					500	Gallon(s) Gallon(s)	42.00 1.50	750.007 100.007
221 403-5		Liquid KCL (Clayfix 5 1/2" Cement Bask	x) et				4 2	Gallon(s) Each	25.00 275.00	550.00° 250.00°
406-5 407-5		5 1/2" Latch Down I 5 1/2" Insert Float S	Plug & Baffle	o Fill			1	Each Each	250.00 325.00 85.00	325.00° 680.00°
409-5 419-5		5 1/2" Turbolizer 5 1/2" Rotating Hea	d Rental				8 1 125	Each Each Sacks	200.00 16.25	200.00
330 325		Swift Multi-Density Standard Cement	Standard (MI	DCON II)	in lang			Sacks Sacks Sack(s)	13.00 35.00	1,300.007 175.007
284 283		Calseal Salt					550	Lb(s) Lb(s)	0.20 4.50	110.00° 225.00°
285 276		CFR-1 Flocele					50	Lb(s) Sacks	2.50 1.75	125.00 393.75
581D 583D		Service Charge Cen Drayage	ilent			68	87.75	Ton Miles	0.85	584.59
		Subtotal Sales Tax Barton C	ounty						7.50%	9,567.59 524.19
						11				



CITY, STATE, ZIP CODE

ADDRESS PALAMINA LETOLEMA

PAGE OF

TICKET 27485

Services, 1	Inc.		ne and		2
SERVICE LOCATIONS	WELL/PROJECT NO. LEASE	00	STATE OTY	DATE	OWNER
2 Ness Coty KS	TICKET TYPE CONTRACTOR PAGE SERVICE N N N	RIG NAMENO.	SHIPPED DELIVERED TO	ORDER NO.	
	W	JOB PURPOSE	XE.	WELL LOCATION	TION
REFERRAL LOCATION	INVOICE INSTRUCTIONS				
PRICE SECONDARY FERENCE PARTI	SECONDARY REFERENCE/ PART NUMBER LOC ACCT	DESCRIPTION DESCRIPTION	ATY. NWW (QTY UM P	UNIT AMOUNT
575		MILEAGE # 1/3	60 m		5 00 300 ex
578		Dump Charge - Long String	I EA	1	300 00 /300 00
290		7-27	4 941		168
281		Mudthust	500 901		
ನಿವಿ	-	Liguid KCL	2/194/	25	100
40.3		Commt Basket	2/6/5	200	550
406		Latel Down Flugt Baffle		_ &	250
407		Insert Elest Shap w/ Auto fill	1 EA	L.	
405	-	Turbolizer	8154		85 = 68D = 58
HIA		Rotating Head Rental	I EA	0.	18
			SIBVEY	UN- DIS- I	L 22 00
the terms and conditions on the reverse side hereof which include,	verse side hereof which include,	REMIT PAYMENT TO:	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	7.	*
LIMITED WARRANTY provisions.	is.	SWIFT SERVICES INC	ME UNDERS FOOD AND MET YOUR NEEDS? OUR SERVICE WAS	5.2	subtotal 9567 51
START OF WORK OR DELIVERY OF GOODS	MAN PRIORIES		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	3 4	24 CO - CO
DATE SIGNED TI	TIME SIGNED		RVICE?	NO	TOTAL
			CUSTOMER DID NOT WISH TO RESPOND		10.041
		The second secon			

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

APPROVAL

Thank You!



TOKET CONTINUATION

No. 27485

n ga	583	.581						7"	4			276	285	283	284	325	330	PRICE REFERENCE		
																		SECONDARY REFERENCE/ PART NUMBER		
	Ŋ	છ										ಬ	ນ	ย	ໃນ	ಬ	ಒ	ACCOUNTING LOC ACCT	Off: 785-798-2300	PO Box 466
						-				- ,		************	***************************************					DF TIME	5 E	<u>.</u>
	CHARGE 22925 LOADED MILES	ta										Flocele	CPR-1	50/4	Calsul	Standard Coment	Swift Multi Vensily Standard	DESCRIPTION	Palomino Petroleum	
	467,75	225 SKS					 					50 163	50 165	550 165	5 5/3	IDD SKS	125 313	Win Alb Win Alb	Christians #3	
CONTINUATION TOTAL	0 93						 		 			ವಿ ಕ್ರಾ	4 50	0 18	35 188	13	16 25	UNIT	03/02/19	No. 27485
न्ड ५५६५	584 59	393 75	0000 AD0000 3000				 		 	4 ******	 	125 €	225	110 011	175	1300	2031 25	AMOUNT	ا لو	

TOME	ino Atro	leum	WELL NO.		LEASE	stians	vices. luc. JOB TYPE Long String	03/02/19 TICKET NO. 27485
ART	TIME	RATE	VOLUME	PUMPS		URE (PSI)	DESCRIPTION OF OPER	RATION AND MATERIALS
0.		(BPM)	(BBL) (GAL)	T C	TUBING	CASING		
	0620					-	On location w/ Floa.	t Equipment
_		7 1 1 mg	-			-	Rig Changing Over	<u> </u>
_		-						
							51/2"x 17#	
					273 		RTD -3520'	
						=	LTN-3520'	
			i i				Total Pipe-3506,39 Shoe It - 29.29' Baffle Plate- 347	1 85 Tts
		13	100 E				Shar It - 29,291	, , , , , , , , , , , , , , , , , , , ,
						-	Raffle Dlate 347	7./'
						2	Baskets - 3, 6	***
	7			-				6 11 15 10
						4	Turbos - 1, 2, 3, 5,	
						11	It's out - 85,87,88	P, 89
- P	RAZE		870				(1 10 . 15	1- /
	0835				. 1		Start Casing w/Float Break Circulation	Egrip ment
	1025						Break Circulation	on Bottom
-	1200	3				8	Hook up to Swift	
	1205	2	8				Plug RH	
		5	12	- 0		300	Pump Mudflush	
		5	20		20	300	Start SMD Cement	
	1220	4				300	Start SMA Cement	
		11 (5)	53				Fin SMD, Start EA-2	Cement
	1235	4 7	77	a ₂₀ = 2 = 2	3		Fin Cont	
		2 % a	A 11	50 50		Vac	Drop Aling, Washon	I Dama Alines
	1240	8					Start Displacement	AT TEMP " DINES
	1245	7	57		J. 181	CAO	C. J. I. N	
+		6	801/2			80%	Catch fressure	1 1/1 1/2 044
	1250	(00/2			11400	Land Alug	Lift PSI 800# Land PSI 1400#
							A 1 - 4 - 3	Land 451 1400 "
+	1255		2				Release Truck, Dry	*
-2							Washnp	80 ¹⁰ 1 108
	80-						Raellup	
	1310						Wash np Raell up Job Complete	
+	3 200							ν.
+					\$	α, 1x1	1/104/	ustin, Isaac
+	· · · · · · · · · · · · · · · · · · ·	<i>ş</i> -					-on, H	ustin, 150ac

. 10

GLOBAL OIL FIELD SERVICES, LLC 24 S. Lincoln RUSSELL, KS 67665

785-445-3526

785-445-3525

RECEIVED

MAR 05 2019

Invoice

Date	Invoice #
3/4/2019	0013390

Bill To

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

P.O. No	Terms	Project
CHRISTANS#)	Due on receipt	

4,537.50 800.00 150.00 551.00 725.00 850.00 162.50 68.75
551.00 725.00 850.00 162.50 68.75
162.50 68.75
0.00
\$7,844.75

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln Russell, KS 67665 TWP. ON LOCATION JOB START JOB FINISH SEC. CALLED OUT RANGE STATE COUNTY LEASE hris WELL# LOCATION OLD OR NEW (CIRCLE ONE) CONTRACTOR TYPE OF JOB T.D. HOLE SIZE CEMENT CASING SIZE DEPTH AMOUNT ORDERED TUBING SIZE DEPTH DRILL PIPE DEPTH TOOL DEPTH PRES. MAX **MINIMUM** COMMON MEAS. LINE SHOE JOINT POZMIX_ CEMENT LEFT IN CSG. GEL_ PERFS CHLORIDE DISPLACEMENT EQUIPMENT PUMP TRUCK CEMENTER HELPER BULK TRUCK DRIVER **BULK TRUCK** DRIVER HANDLING. TOTAL **SERVICE** PUMP TRUCK CHARGE_ EXTRA FOOTAGE_____ MILEAGE __ TOTAL PLUG & FLOAT EQUIPMENT 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. PRINTED NAME

SALES TAX (If Any)
TOTAL CHARGES

DISCOUNT

IF PAID IN 30 DAYS



Prepared For: Palomino Petroleum Inc

4924 SE 84th St

Newton, KS 67114+8827

ATTN: Eli Feltz

Christians #3

20-16S-12W Barton, KS

Start Date: 2019.02.27 @ 09:11:00

End Date:

2019.02.27 @ 16:13:02

Job Ticket #: 65100

DST#: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum Inc

20-16S-12W Barton, KS

4924 SE 84th St

Newton, KS 67114+8827

ft (KB)

Christians #3 Job Ticket: 65100

DST#: 1

ATTN: Eli Feltz

Test Start: 2019.02.27 @ 09:11:00

GENERAL INFORMATION:

Time Tool Opened: 11:52:32

Time Test Ended: 16:13:02

Formation:

Arbuckle

Deviated:

No

Whipstock:

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

72

Unit No:

Reference Elevations:

1932.00 ft (KB) 1921.00 ft (CF)

KB to GR/CF:

11.00 ft

Interval:

3339.00 ft (KB) To 3379.00 ft (KB) (TVD)

3379.00 ft (KB) (TVD)

Inside

Total Depth: Hole Diameter:

7.80 inches Hole Condition: Fair

Serial #: 8365

Press@RunDepth:

202.12 psig @

3340.00 ft (KB) End Date:

2019.02.27

Capacity: Last Calib .:

psig

Start Date: Start Time:

2019.02.27 09:11:01

End Time:

16:13:02

Time On Btm:

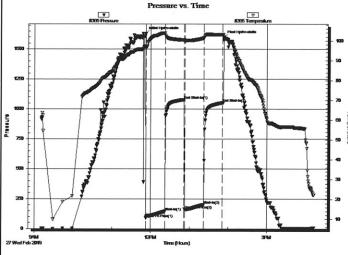
2019.02.27 2019.02.27 @ 11:52:02

Time Off Btm:

2019.02.27 @ 13:53:32

TEST COMMENT: IF 30 Minutes BOB in 13 minutes

ISI 30 Minutes 2" blow back FF 30 Minutes BOB in 16 minutes FSI 30 Minutes 1" blow back



		PI	RESSUR	RE SUMMARY
Ì	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1628.27	97.26	Initial Hydro-static
	1	90.04	96.83	Open To Flow (1)
	31	145.78	103.87	Shut-In(1)
	60	1078.01	100.36	End Shut-In(1)
i i	61	162.35	100.03	Open To Flow (2)
Temperature	90	202.12	101.40	Shut-In(2)
2	120	1051.99	103.19	End Shut-In(2)
	122	1597.88	101.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	VSOCM O 2% M 98%	2.17
232.00	GO G 5% O 95%	3.25

Gas	Rates
-----	-------

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

Trilobite Testing, Inc

Ref. No: 65100



Palomino Petroleum Inc

20-16S-12W Barton, KS

4924 SE 84th St

Newton, KS 67114+8827

Christians #3 Job Ticket: 65100

DST#: 1

ATTN: Eli Feltz

Test Start: 2019.02.27 @ 09:11:00

GENERAL INFORMATION:

Formation:

Arbuckle

Deviated:

Total Depth:

Hole Diameter:

Whipstock:

ft (KB)

Tester: Ken Sw inney

Test Type: Conventional Bottom Hole (Initial)

Unit No:

72

Time Test Ended: 16:13:02 Interval:

Time Tool Opened: 11:52:32

3339.00 ft (KB) To 3379.00 ft (KB) (TVD)

3379.00 ft (KB) (TVD)

7.80 inches Hole Condition: Fair

Reference Elevations:

1932.00 ft (KB)

1921.00 ft (CF)

KB to GR/CF:

11.00 ft

Serial #: 6752 Press@RunDepth: Outside

1053.21 psig @ 2019.02.27

3341.00 ft (KB) End Date:

2019.02.27

Capacity:

psig

Start Date: Start Time:

09:11:01

End Time:

16:14:02

Last Calib .: Time On Btm:

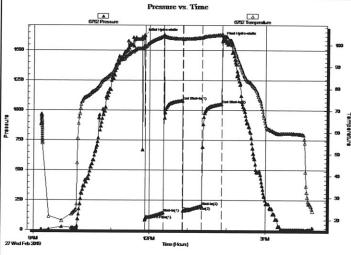
2019.02.27 2019.02.27 @ 11:52:02

Time Off Btm:

2019.02.27 @ 13:54:02

TEST COMMENT: IF 30 Minutes BOB in 13 minutes

ISI 30 Minutes 2" blow back FF 30 Minutes BOB in 16 minutes FSI 30 Minutes 1" blow back



		PI	RESSUF	RE SUMMARY
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1628.04	99.50	Initial Hydro-static
	1	86.29	99.28	Open To Flow (1)
	30	145.90	104.05	Shut-In(1)
	60	1080.87	102.85	End Shut-In(1)
1	61	160.54	102.69	Open To Flow (2)
Temperature	90	202.62	103.50	Shut-In(2)
3	120	1053.21	104.69	End Shut-In(2)
	122	1598.66	104.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	VSOCM O 2% M 98%	2.17
232.00	GO G 5% O 95%	3.25

Gas I	Rates	
1000 100 100 100		

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

Trilobite Testing, Inc

Ref. No: 65100



TOOL DIAGRAM

Palomino Petroleum Inc

20-16S-12W Barton, KS

4924 SE 84th St Newton, KS 67114+8827 Christians #3 Job Ticket: 65100

DST#:1

ATTN: Eli Feltz

Test Start: 2019.02.27 @ 09:11:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3320.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 46.57 bbl Tool Weight: 0.00 bbl Weight set on Packer: 20000.00 lb

2000.00 lb

Drill Collar:

Length:

0.00 ft Diameter:

0.00 ft Diameter: 225.00 inches Volume: 0.00 bbl

Weight to Pull Loose: 60000.00 lb

Drill Pipe Above KB:

8.00 ft

Total Volume: 46.57 bbl

Tool Chased

20.00 ft

Depth to Top Packer:

3339.00 ft ft

String Weight: Initial 48000.00 lb Final 49000.00 lb

Depth to Bottom Packer: Interval between Packers:

40.00 ft

Tool Length: Number of Packers: 67.00 ft

2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3317.00		
Hydraulic tool	5.00			3322.00		
Jars	5.00			3327.00		
Safety Joint	2.00			3329.00		
Top Packer	5.00			3334.00		
Packer	5.00			3339.00	27.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	3340.00		
Recorder	1.00	6752	Outside	3341.00		
Anchor	35.00			3376.00		
Bullnose	3.00			3379.00	40.00	Anchor Tool
Total Tool Length	. 67.00					

Total Tool Length:

Trilobite Testing, Inc

Ref. No: 65100



FLUID SUMMARY

38 deg API

ppm

Palomino Petroleum Inc

Newton, KS 67114+8827

20-16S-12W Barton, KS

4924 SE 84th St

Job Ticket: 65100

Christians #3

DST#: 1

ATTN: Eli Feltz

Test Start: 2019.02.27 @ 09:11:00

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

73.00 sec/qt

Viscosity: 73.00 sec Water Loss: 9.59 in³ Resistivity: ohr

Salinity: Filter Cake:

Mud Weight:

ohm.m 6000.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Length:

ft bbl

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	VSOCM O 2% M 98%	2.174
232.00	GO G 5% O 95%	3.254

Total Length:

387.00 ft

Total Volume:

5.428 bbl

0

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

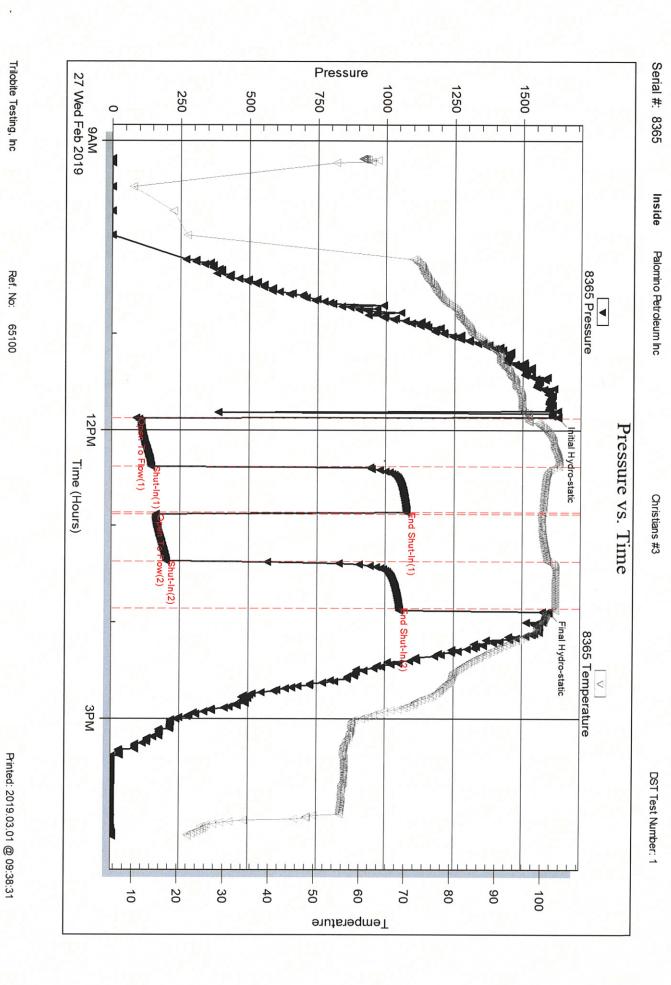
Laboratory Name:

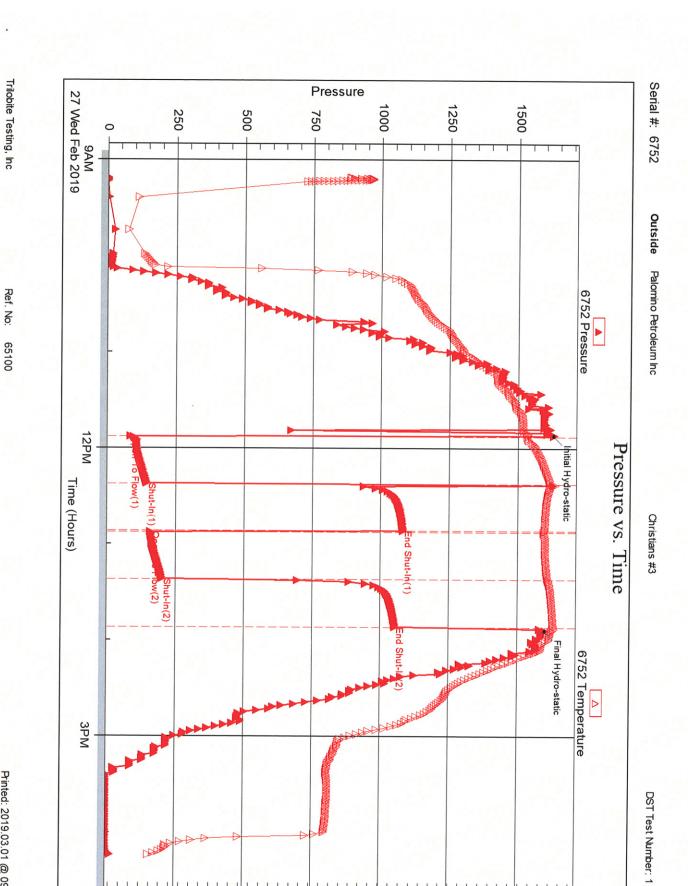
Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc

Ref. No: 65100





Temperature



Prepared For: Palomino Petroleum Inc

4924 SE 84th St

Newton, KS 67114+8827

ATTN: Eli Feltz

Christians #3

20-16S-12W Barton,KS

Start Date: 2019.02.28 @ 15:18:00

End Date:

2019.03.01 @ 00:10:02

Job Ticket #: 65651

DST#: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



Palomino Petroleum Inc

20-16S-12W Barton, KS

4924 SE 84th St

Newton, KS 67114+8827

Christians #3

Job Ticket: 65651

DST#: 2

ATTN: Eli Feltz

Test Start: 2019.02.28 @ 15:18:00

GENERAL INFORMATION:

Time Tool Opened: 17:45:02

Time Test Ended: 00:10:02

Formation:

Arbuckle

Deviated:

Interval:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

Unit No:

72

Reference Elevations:

1932.00 ft (KB)

1921.00 ft (CF)

Total Depth: Hole Diameter: 3334.00 ft (KB) To 3398.00 ft (KB) (TVD)

3398.00 ft (KB) (TVD)

7.80 inches Hole Condition: Fair

KB to GR/CF:

11.00 ft

Serial #: 8365

Press@RunDepth:

809.06 psig @

Inside

3335.00 ft (KB)

2019.03.01

Capacity:

psig

Start Date: Start Time: 2019.02.28 15:18:01

End Date: End Time:

00:10:02

Last Calib .: Time On Btm:

2019.03.01 2019.02.28 @ 17:41:47

Time Off Btm:

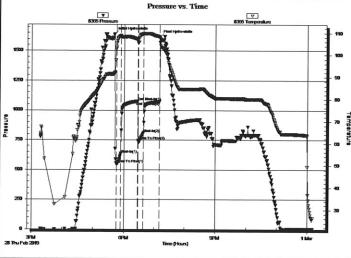
2019.02.28 @ 19:11:02

TEST COMMENT: IF 10 Minutes BOB in 22 seconds Total build 240"

ISI 30 Minutes No blow back

FF 10 Minutes Blow to BOB in 35 seconds Total build 76"

FSI 30 Minutes No blow back



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1640.03	92.09	Initial Hydro-static
	4	551.64	103.68	Open To Flow (1)
	12	634.22	108.81	Shut-In(1)
	45	1076.04	107.13	End Shut-In(1)
ă m	46	744.44	105.77	Open To Flow (2)
Temperature	57	809.06	109.60	Shut-In(2)
3	88	1072.48	108.11	End Shut-In(2)
	90	1613.70	105.47	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM O 30% M 70%	0.59
1430.00	GMCO M 10% G 15% O 75%	20.06
387.00	HMCO M 40% O 60%	5.43

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65651



Palomino Petroleum Inc

4924 SE 84th St Newton, KS 67114+8827

ATTN: Eli Feltz

20-16S-12W Barton, KS

Christians #3

Job Ticket: 65651

DST#: 2

Test Start: 2019.02.28 @ 15:18:00

GENERAL INFORMATION:

Time Tool Opened: 17:45:02

Time Test Ended: 00:10:02

Formation:

Arbuckle

Deviated:

No Whipstock: ft (KB)

Tester:

Test Type: Conventional Bottom Hole (Initial)

Ken Sw inney

Unit No:

Reference Elevations:

1932.00 ft (KB)

1921.00 ft (CF)

KB to GR/CF:

11.00 ft

Interval:

Start Date:

Start Time:

Hole Diameter:

3334.00 ft (KB) To 3398.00 ft (KB) (TVD)

Total Depth:

Press@RunDepth:

3398.00 ft (KB) (TVD)

7.80 inches Hole Condition: Fair

Serial #: 6752

Outside

1071.21 psig @

2019.02.28

15:18:01

3336.00 ft (KB) End Date: End Time:

2019.03.01 00:10:47

Capacity: Last Calib .:

psig 2019.03.01

Time On Btm:

2019.02.28 @ 17:42:02

Time Off Btm:

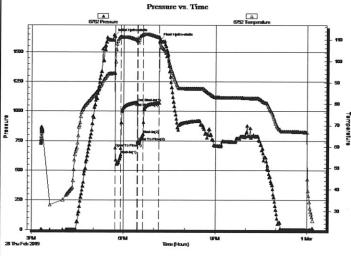
2019.02.28 @ 19:11:17

TEST COMMENT: IF 10 Minutes BOB in 22 seconds Total build 240"

ISI 30 Minutes No blow back

FF 10 Minutes Blow to BOB in 35 seconds Total build 76"

FSI 30 Minutes No blow back



	PI	RESSUF	RE SUMMARY
Time	Pressure	Temp	Annotation
(Min)	(nsia)	(dea F)	1 - 300, 3,450,000,000,000

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	100000000000000000000000000000000000000
	0	1635.74	94.49	Initial Hydro-static
	1	691.03	94.49	Open To Flow (1)
	12	634.03	111.55	Shut-ln(1)
	45	1074.12	109.96	End Shut-In(1)
Temp	46	745.92	109.67	Open To Flow (2)
	56	807.63	112.37	Shut-In(2)
3	88	1071.21	111.05	End Shut-In(2)
	90	1601.86	109.72	Final Hydro-static
				**
-				
- 1				

Recovery

Description	Volume (bbl)
OCM O 30% M 70%	0.59
GMCO M 10% G 15% O 75%	20.06
HMCO M 40% O 60%	5.43
	GMCO M 10% G 15% O 75%

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 65651



TOOL DIAGRAM

Palomino Petroleum Inc

20-16S-12W Barton, KS

4924 SE 84th St Newton, KS 67114+8827 Christians #3 Job Ticket: 65651

DST#: 2

ATTN: Eli Feltz

Test Start: 2019.02.28 @ 15:18:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3199.00 ft Diameter: 0.00 ft Diameter: 3.80 inches Volume: 0.00 inches Volume: 44.87 bbl 0.00 bbl Tool Weight:

2000.00 lb

Drill Collar:

Length:

120.00 ft Diameter:

2.25 inches Volume:

0.59 bbl

Weight set on Packer: 20000.00 lb Weight to Pull Loose: 65000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

13.00 ft 3334.00 ft Total Volume: 45.46 bbl Tool Chased

5.00 ft String Weight: Initial 49000.00 lb

Depth to Bottom Packer: Interval between Packers:

ft 63.78 ft Final 54000.00 lb

Tool Length: Number of Packers: 91.78 ft

2 Diameter:

6.75 inches

Tool Comments: Reversed fluid

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3311.00		
Hydraulic tool	5.00			3316.00		
Jars	6.00			3322.00		
Safety Joint	2.00			3324.00		
Top Packer	5.00			3329.00		
Packer	5.00			3334.00	28.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	3335.00		
Recorder	1.00	6752	Outside	3336.00		
Anchor	25.00			3361.00		
Change Over Sub	1.00			3362.00		
Drill Pipe	31.78			3393.78		
Change Over Sub	1.00			3394.78		
Bullnose	3.00			3397.78	63.78	Anchor Tool

Total Tool Length:

91.78

Trilobite Testing, Inc

Ref. No: 65651



FLUID SUMMARY

Palomino Petroleum Inc

20-16S-12W Barton, KS

4924 SE 84th St

New ton, KS 67114+8827

Christians #3

Job Ticket: 65651

ft

bbl

psig

DST#: 2

ATTN: Eli Feltz

Test Start: 2019.02.28 @ 15:18:00

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

37.00 sec/qt

Viscosity: 37.00 sec Water Loss: 11.19 in³

Resistivity: Salinity:

Filter Cake:

Mud Weight:

ohm.m 7300.00 ppm 1.00 inches Cushion Type:

Cushion Length:

_enath:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

39 deg API

ppm

Recovery Information

Recovery Table

 Length ft
 Description
 Volume bbl

 120.00
 OCM O 30% M 70%
 0.590

 1430.00
 GMCO M 10% G 15% O 75%
 20.059

 387.00
 HMCO M 40% O 60%
 5.429

Total Length:

1937.00 ft

Total Volume:

26.078 bbl

Num Fluid Samples: 0

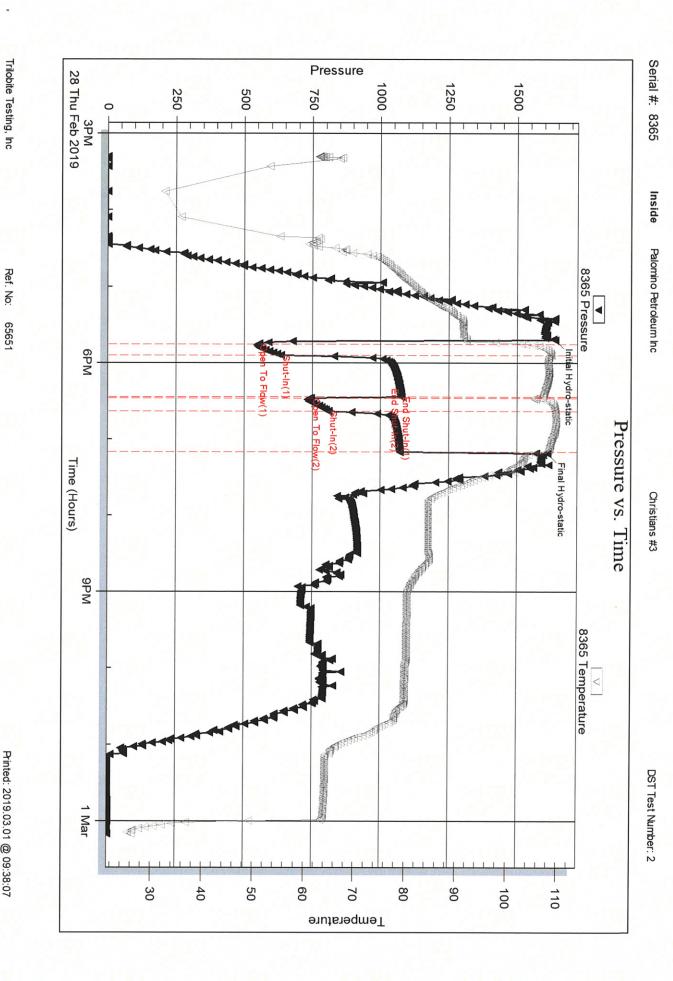
Num Gas Bombs:

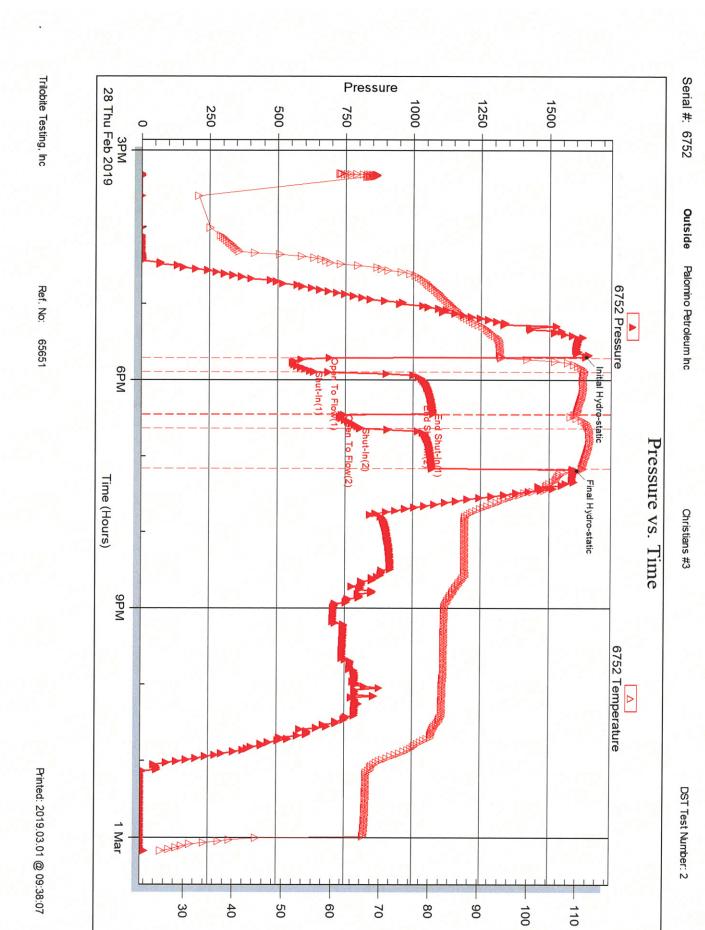
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Temperature



RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65100

#3Test No	1 Date 27 Feb 19
	1932 KB 1921 GL
	5 67114 + 8827
	NW Rig 14
65 Rge. 12W Co. Bar.	ton State K5
9 Zone Tested Aiboc.	kle
Drill Pipe Run 33.	20 Mud Wt. 8,8
9 Drill Collars Run 12	
Wt. Pipe Run	
Chlorides 6000 pp	pm System LCM
to BOB in 13 min	uses/ Total build 19:
K	
OB 16 min / Total 60	ild 17 inch
4	
5 %gas	95 %oil %water %mu
get much %gas	2 %oil %water 98%mu
%gas	%oil %water %mu
%gas	%oil %water %mud
%gas	%oil %water %muc
3 Gravity 38 API RW	°F Chloridesppn
Test 1200	T-On Location 6:22 am
M Jars 250	T-Started 9:11 9 m
	T-Open 11:52 sm
	T-Pulled 2:57 pm
	T-Out 4:13 pm
	Comments
- Millougo	
□ Sampler	
□ Sampler □	
Straddle	C EM Tool
Straddle	☐ EM Tool ☐ Ruined Shale Packer ☐ Ruined Shale Packer
☐ Straddle ☐ ☐ Shale Packer ☐ ☐ Extra Packer ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ EM Tool ☐ Ruined Shale Packer ☐ Ruined Packer
Straddle Shale Packer Extra Packer Extra Recorder	☐ EM Tool ☐ Ruined Shale Packer ☐ Ruined Packer ☐ Extra Copies
☐ Straddle ☐ Shale Packer ☐ Extra Packer ☐ Extra Recorder ☐ Day Standby ☐ Day Standby ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ EM Tool ☐ ☐ Ruined Shale Packer ☐ Ruined Packer ☐ Extra Copies ☐ Sub Total ☐ 0
Straddle Shale Packer Extra Packer Extra Recorder	☐ EM Tool ☐ Ruined Shale Packer ☐ Ruined Packer ☐ Extra Copies ☐ Sub Total ☐ 0 Total ☐ 1577
	Fire Elevation St New ton Kansa Rig Land Co. Bar Co. Co.

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.



RILOBITE ESTING INC.

1515 Commerce Parkway · Hays, Kansas 67601

Test Ticket

NO. 65651

Well Name & No. Chritians	#3 Test No	2 Date 28 Feb 19
Company Palomino Petro	leum Inc. Elevation	1932 KB 1921 GL
Address 4924 5E 84+h S	t Newton Kansas 671	114 18827
	Rig_ ev	
	165 Rge. 12W Co. B	
Interval Tested 3334 - 33 9	78 Zone Tested Arba	
Anchor Length 6		9 Mud Wt. 9.1
Top Packer Depth 332	Drill Collars Run 12	
Bottom Packer Depth 333	Wt. Pipe Run	
Total Depth 339	8 Chlorides 7300	ppm System LCM Trace
Blow Description IF Blow Lo	o BOB 22 seconds /	
ISI No How back		
FF Blow to BOB	in 35 seconds/	Total knild 76 inches
FSI No blow bac		
Rec 387 Feet of Muddy		60 %oil %water 40 %mu
Rec_1430 Feet of Mad ca	+ Cassy Oil 15 %gas	75 %oil %water 10 %mu
Rec_120 Feet of 6.14		30 %oil %water 70 %mu
	%gas	%oil %water %rnu
Rec Feet of	%gas	%oil %water %mu
Rec Total 1937 BHT 19	09 Gravity 39 API RW	_@°F Chloridesppn
(A) Initial Hydrostatic 1640		T-On Location 1.55 pm
(B) First Initial Flow 67.5		T-Started 3.18,5 m
(C) First Final Flow 634	V -	T-Open 5 40 pm
(D) Initial Shut-In 1076	Circ Sub 50	T-Pulled 7:02 pm
(E) Second Initial Flow744	☐ Hourly Standby	T-Out 12:12 pm
(F) Second Final Flow 809	Mileage 52 5 2	Comments
(G) Final Shut-In 1072	□ Sampler	
(H) Final Hydrostatic	Straddle	
nitial Open l 🔿	Shale Packer	
nitial Shut-In	Extra Packer	
Final Flow 1 d	Extra Recorder Day Standby	
Final Shut-In 3 O	Day Standby	
01 111	Sub Total 1577	
Approved By / Tells		MP/DST Disc't
cilabita Tarting Ing. shall not be liable for demand of any bind of the	Our Representative	for stay

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: Christians #3 15-009-26252

API:

Location: NE - NW - SW - SE of Sec. 20 16s 12w

License Number: 30742

Spud Date: 2/23/2019

Drilling Completed:

3/1/2019

Region:

Barton County, KS

Surface Coordinates: 1150' FSL & 2008' FEL

Coordinates: **Bottom Hole** Same as surface coordinates

Ground Elevation (ft): Logged Interval (ft): 1921

2700'

Type of Drilling Fluid: Formation: **Chemical Drispac** Arbuckle Dolomite @ RTD

To: 3520'

K.B. Elevation (ft): Total Depth (ft): 1932' 3520'

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

Company: Name: Eli J. Felts

Address: Gravity Oil, LLC 954 Prairie Park Road

Wichita, KS 67218

Formation Tops

SAMPLE TOPS **LOG TOPS**

RTD	ARBUCKLE	B/KC	LANSING	BROWN LIME	DOUGLAS	TORONTO	HEEBNER	TOPEKA	HOWARD	BASEANHY	ANHY
3520	3370	3364	3314	3101	3040	3027	3011	2748	2703	866	844
(-1588)					-					_	_
LTD	ARBUCKLE	BIKC	LANSING	BROWN LIME	DOUGLAS	TORONTO	HEEBNER	TOPEKA	HOWARD	BASE ANHY	ANHY
3520	3377	3370	3121	3108	3048	3038	3022	2744	2707	864	838
(-1588)	(-1445)	(-1438)	(-1189)	(-1176)	(-1116)	(-1106)	(-1090)	(-812)	(-776)	(+1068)	(+1094)

Drilling Report

2/23/19

(Sat)
Moved in WW Drilling, L.L.C. rotary tools (Rig #14). Spudded at 1:45 a.m.

2/24/19

(Sun) Drilling at 790'.

2/25/19

(Mon)

Drilling at 2345'. Displaced @ 2695' Geo on location @ 5pm. Depth on arrival 2715'.

2/26/19

(Tues) Drilling at 3065'.

2/27/19 (Wed) DST #1

2/28/19 (Thurs)

Hooking kelly hose back up after clearing ice blockage after DST #1. Drill Down 19' and run DST #2.

3/1/19

Drilling at 3470'.

RTD @ 3520' @ 8:20 a.m.

Gemini Wireline on location to log well. Tag bottom @ 12:08 p.m. Lost communication with tools 12:08-6:00 p.m.

Restart well logging @ 5 p.m. Finished Logging @ 9 p.m.

TIH w/ bit to condition hole to run casing.

Drill Stem Tests

Interval: 3339'-3379' DST #1 Arbuckle

(40') Anchor

30-30-30-30

IF: built to BOB in 13"

ISI: built to 2" (sustained)

FF: built to BOB in 16"

FSI: built to 1" (sustained)

SIP: 1078-1051#

FF: 162-202# IF: 90-145#

Hydrostatic: 1628-1597#

BHT: 103 F

Grav: 38 API @ 60 Degrees

Recovery: 387' TF

232' GCO (5%G) (95%O)

155' light OCM (2%O) (98%M)

*slid 20' to bottom. took in mud on slide (see hydrostatic chart)

DST #2 Arbuckle

Interval: 3334'-3398'

(64') Anchor

10-30-10-30

IF: built to BOB in 22 seconds (240 inches build)

ISI: no blowback

FF: built to BOB in 35 seconds (76 inches build) *1/4 valve broken

SIP: 1076-1072# FSI: no blowback

IF: 675-634#

FF: 744-809#

Hydrostatic: 1640-1613#

BHT: 109 F

Grav: 39 API @ 60 Degrees

Recovery: 1937' TF

387' MO (60% O) (40% M)

1430' MCGO (75% O) (15% G) (10% M)

120' OM (30%O) (70%)

*slid 5' to bottom

Pipe Setting

2/23/2019

circulate. Plug down at 11:30 p.m. Ran 9 jts. new 8 5/8" 20# surface pipe set at 413' and cemented with 275 sacks 80/20, 2% gel, 3% c.c. Cement did

