KOLAR Document ID: 1511991

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:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
□ Oil □ WSW □ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, 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	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Committed at Provider	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:  Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if fladied offsite.
GSW Permit #:	Operator Name:
<u> </u>	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. 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: 1511991

#### 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		Type and F	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.		n.	i donei Al.				

Form	ACO1 - Well Completion		
Operator	C & S Oil Company, LLC		
Well Name	ROCKING P 1-19		
Doc ID	1511991		

## All Electric Logs Run

CDN	
DIL	
MICRO	
SONIC	

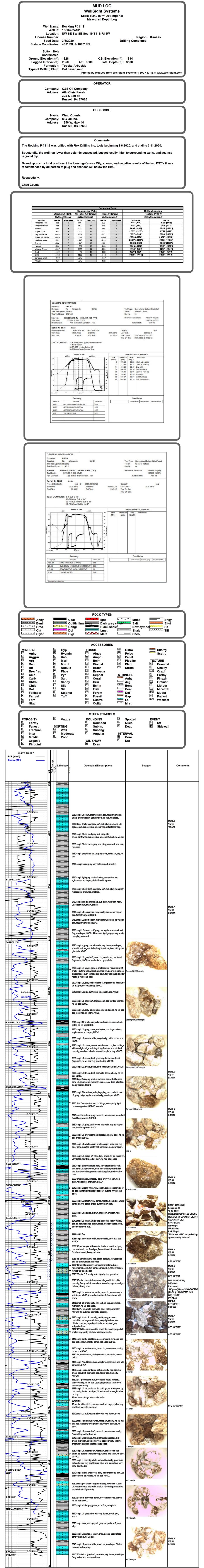
Form	ACO1 - Well Completion		
Operator	C & S Oil Company, LLC		
Well Name	ROCKING P 1-19		
Doc ID	1511991		

## 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	221	80/20 POZ	2%cc 3%gel

r or contractor to do v On Location or CD110 Mud CLR 48 Common Kol-Seal Mileage Poz. Range 14 REMARKS 940 - 50 SX 580 - 75 SX 118/66 280 Jones 785-324 D/V or Port Collar Cement Left Contractor Mouse Hole Centralizers Type Job Hole Size Meas Line Remarks: Pumptrk Rat Hole BURTH Lease Bulktrk Baskets Csg. Ibg. Tool

r or contractor to do v On Location or CD110 Mud CLR 48 Common Kol-Seal Mileage Poz. Range 14 REMARKS 940 - 50 SX 580 - 75 SX 118/66 280 Jones 785-324 D/V or Port Collar Cement Left Contractor Mouse Hole Centralizers Type Job Hole Size Meas Line Remarks: Pumptrk Rat Hole BURTH Lease Bulktrk Baskets Csg. Ibg. Tool





C&S Oil Company

19-11s-14w Russell KS

305 S ⊟m St

Rocking P #1-19

Russell KS 67665+3005

Job Ticket: 66382 **DST#:1** 

ATTN: Chad Counts

Test Start: 2020.03.09 @ 19:56:00

## **GENERAL INFORMATION:**

Formation: LKC A-C

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 21:56:27 Time Test Ended: 01:21:52

Unit No: 84

Tester: Spencer J Staab

-it Nia . O.4

3022.00 ft (KB) To 3058.00 ft (KB) (TVD)

Reference Elevations:

1833.00 ft (KB)

Total Depth: 3058.00 ft (KB) (TVD)

1826.00 ft (CF)

7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 6838
Press@RunDepth:

Inside

95.47 psig @ 3023.00 ft (KB)

Capacity:

psig

Start Date:

2020.03.09

End Date:

2020.03.10

Last Calib.: Time On Btm: 2020.03.10 2020.03.09 @ 21:55:47

Start Time:

Interval:

Hole Diameter:

19:56:01

End Time:

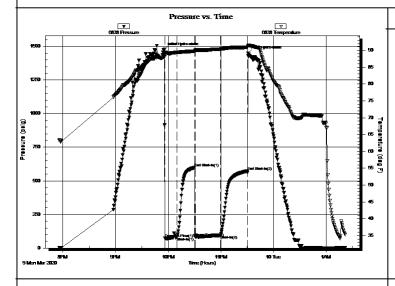
01:21:52

Time Off Btm: 2020.03.09 @ 23:30:52

TEST COMMENT: 15-IF-Slid 8'; Blow @ 14"; Died back to 11"

15-ISI-No Return

30-FF-BOB 19 mins; Built to 15" 30-FSI-Very Weak Surface Blow



### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1476.50	88.25	Initial Hydro-static
1	72.45	89.27	Open To Flow (1)
14	81.56	89.40	Shut-In(1)
34	598.53	89.70	End Shut-In(1)
35	80.82	90.05	Open To Flow (2)
64	95.47	90.35	Shut-In(2)
95	573.97	90.87	End Shut-In(2)
96	1449.98	91.19	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)		
63.00	GHOCM 20%G 40%O 40%M			
63.00	GOCM 10%G 5%O 85%M	0.89		
63.00	GSOCM 7%G 3%O 90%M	0.89		
0.00	120' GIP 100%G	0.00		

#### Gas Rates

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

Trilobite Testing, Inc Ref. No: 66382 Printed: 2020.03.10 @ 07:04:02



C&S Oil Company

19-11s-14w Russell KS

305 S ⊟m St

Rocking P #1-19

Russell KS 67665+3005

Job Ticket: 66382 DST#: 1

ATTN: Chad Counts

Test Start: 2020.03.09 @ 19:56:00

## **GENERAL INFORMATION:**

Formation: LKC A-C

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) No ft (KB)

Time Tool Opened: 21:56:27 Time Test Ended: 01:21:52

Interval:

Total Depth:

Tester: Spencer J Staab Unit No: 84

3022.00 ft (KB) To 3058.00 ft (KB) (TVD) Reference Elevations:

1833.00 ft (KB) 1826.00 ft (CF)

3058.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8875 Outside

Press@RunDepth: 3023.00 ft (KB) psig @ Capacity: psig

Start Date: 2020.03.09 End Date: 2020.03.10 Last Calib.: 2020.03.10

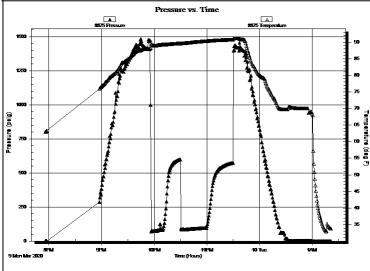
Start Time: 19:56:01 End Time: Time On Btm: 01:21:52

Time Off Btm:

TEST COMMENT: 15-IF-Slid 8'; Blow @ 14"; Died back to 11"

15-ISI-No Return

30-FF-BOB 19 mins; Built to 15" 30-FSI-Very Weak Surface Blow



PRESSURE SUMMARY
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	111233112331111						
	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
,							
,							

#### Recovery

Length (ft)	Description	Volume (bbl)
63.00	GHOCM 20% G 40% O 40% M	0.89
63.00	GOCM 10%G 5%O 85%M	0.89
63.00	GSOCM 7%G 3%O 90%M	0.89
0.00	120' GIP 100%G	0.00

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 66382 Printed: 2020.03.10 @ 07:04:03



**FLUID SUMMARY** 

C&S Oil Company

19-11s-14w Russell KS

305 S ⊟m St

Rocking P #1-19

Russell KS 67665+3005

Job Ticket: 66382

DST#: 1

ATTN: Chad Counts

Test Start: 2020.03.09 @ 19:56:00

### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 55.00 sec/qt Cushion Volume: bbl

7.20 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 3500.00 ppm Filter Cake: inches

Water Loss:

## **Recovery Information**

## Recovery Table

Length ft	Description	Volume bbl
63.00	GHOCM 20%G 40%O 40%M	0.893
63.00	GOCM 10%G 5%O 85%M	0.893
63.00	GSOCM 7%G 3%O 90%M	0.893
0.00	120' GIP 100%G	0.000

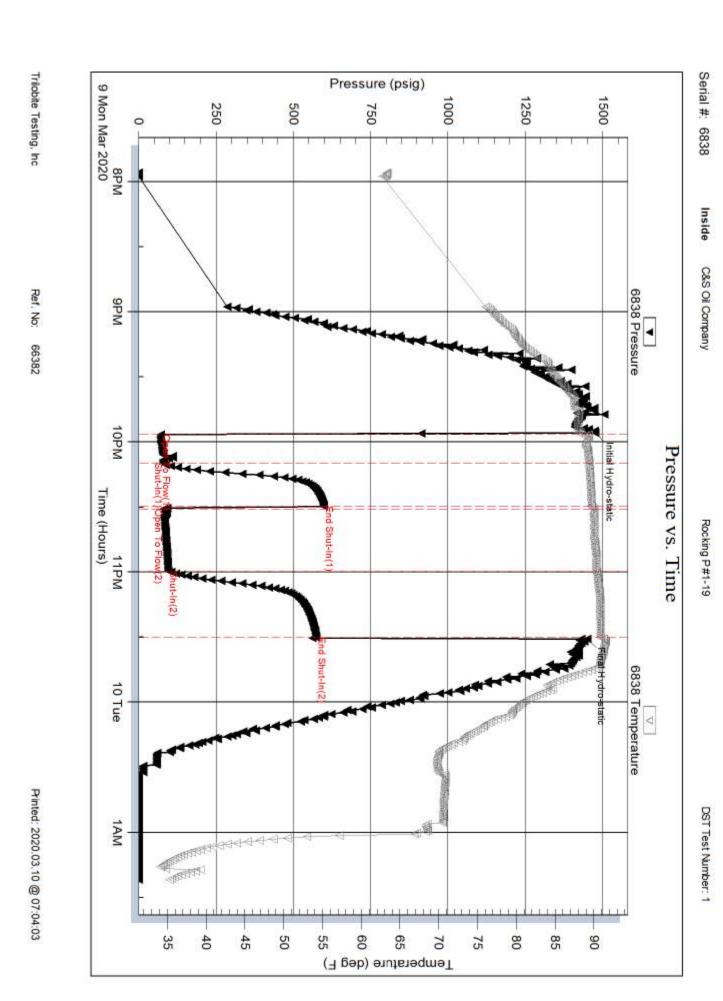
Total Length: 189.00 ft Total Volume: 2.679 bbl

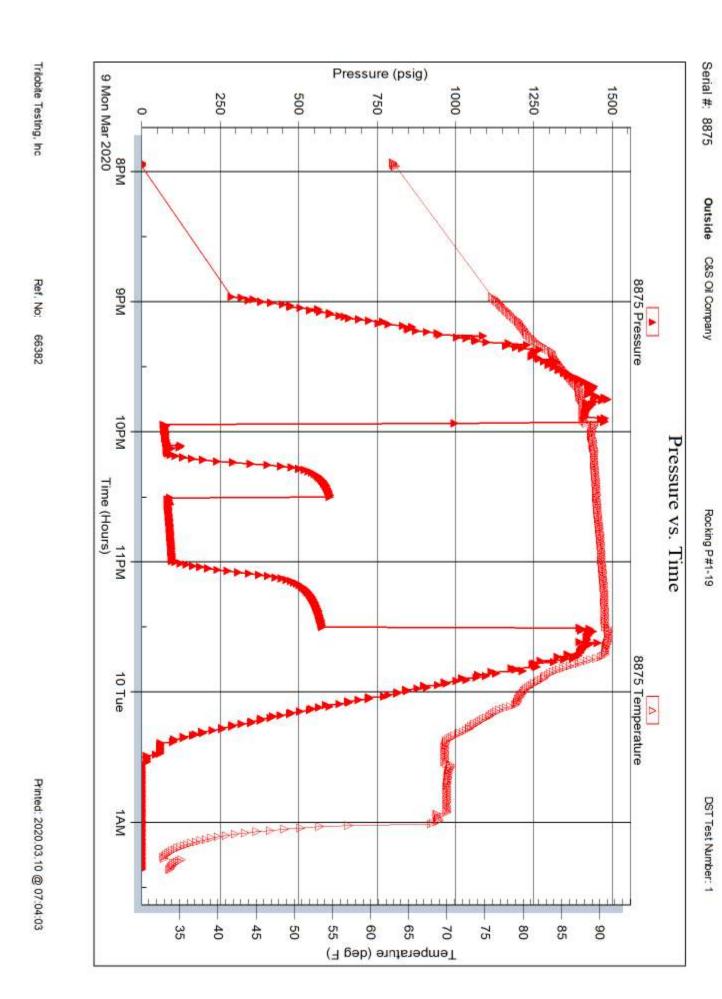
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 2#LCM

Trilobite Testing, Inc Ref. No: 66382 Printed: 2020.03.10 @ 07:04:03







C&S Oil Company

19-11s-14w Russell KS

305 S ⊟m St

Rocking P #1-19

Job Ticket: 66383

DST#: 2

ATTN: Chad Counts

Russell KS 67665+3005

Test Start: 2020.03.10 @ 06:30:00

## **GENERAL INFORMATION:**

Formation: LKC D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:08:52 Time Test Ended: 11:47:12

Interval: 3057.00 ft (KB) To 3075.00 ft (KB) (TVD)

Total Depth: 3075.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab Unit No: 84

Capacity:

1833.00 ft (KB)

Reference Elevations:

1826.00 ft (CF)

psig

KB to GR/CF: 7.00 ft

2020.03.10

Serial #: 8875 Outside

Press@RunDepth: 3058.00 ft (KB) 127.49 psig @

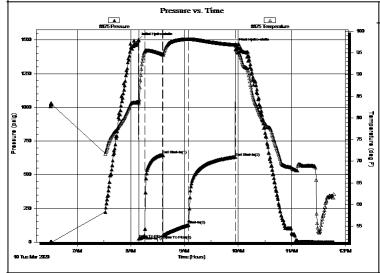
Start Date: 2020.03.10 End Date: 2020.03.10 Last Calib.: Start Time: 06:30:01 End Time: 11:47:12 Time On Btm:

2020.03.10 @ 08:08:47

2020.03.10 @ 09:57:17 Time Off Btm:

TEST COMMENT: 5-IF-Built to 10"

20-ISI-Weak: Built to 3/4" 30-FF-BOB 10 mins: Built to 29" 45-FSI-Weak: Built to 1&1/2"



PRESSURE	SUMMARY
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J				
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1502.21	83.92	Initial Hydro-static
	1	24.58	83.37	Open To Flow (1)
	7	45.57	95.38	Shut-In(1)
	27	648.94	94.61	End Shut-In(1)
	28	49.74	94.55	Open To Flow (2)
	56	127.49	98.14	Shut-In(2)
	109	632.28	96.85	End Shut-In(2)
	109	1458.85	97.06	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)		
180.00	GMW 10%G 10%M 80%W	2.55		
25.00	GVSOCMW 10%G 1%O 30%M 59%W	0.35		
15.00	GSWCMO 5%G 3%W 2%M 90%O	0.21		
0.00	120 GIP 100%G	0.00		
* Recovery from multiple tests				

#### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Ref. No: 66383 Printed: 2020.03.10 @ 13:22:17 Trilobite Testing, Inc



C&S Oil Company

19-11s-14w Russell KS

305 S ⊟m St

Rocking P #1-19

Russell KS 67665+3005

Job Ticket: 66383 DST#: 2

ATTN: Chad Counts

Test Start: 2020.03.10 @ 06:30:00

## **GENERAL INFORMATION:**

Formation: LKC D

Interval:

Test Type: Conventional Bottom Hole (Reset) Deviated: Whipstock: No ft (KB)

Time Tool Opened: 08:08:52 Time Test Ended: 11:47:12 Tester: Spencer J Staab

Unit No: 84

3057.00 ft (KB) To 3075.00 ft (KB) (TVD)

Reference Elevations:

1833.00 ft (KB) 1826.00 ft (CF)

Total Depth: 3075.00 ft (KB) (TVD) Hole Diameter:

KB to GR/CF: 7.00 ft

7.88 inches Hole Condition: Fair

Serial #: 6838 Inside

Press@RunDepth: 3058.00 ft (KB) psig @

Capacity: Last Calib.:

psig 2020.03.10

Start Date: 2020.03.10 Start Time: 06:30:01

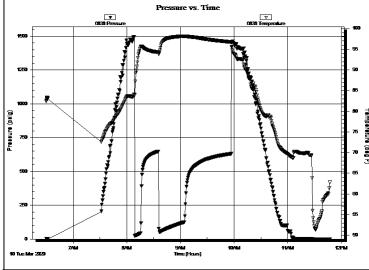
End Date: 2020.03.10 End Time: 11:47:12

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IF-Built to 10"

20-ISI-Weak: Built to 3/4" 30-FF-BOB 10 mins: Built to 29" 45-FSI-Weak: Built to 1&1/2"



## PRESSURE SUMMARY

	1 1 12 3 3 1 12 3 3 1 1 1 1 1				
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
,					
3					
Temperature (ded E)					
				i 📗	

#### Recovery

Length (ft)	Description	Volume (bbl)		
180.00	GMW 10%G 10%M 80%W	2.55		
25.00	GVSOCMW 10%G 1%O 30%M 59%W	0.35		
15.00	GSWCMO 5%G 3%W 2%M 90%O	0.21		
0.00	120 GIP 100%G	0.00		
* Recovery from multiple tests				

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Ref. No: 66383 Printed: 2020.03.10 @ 13:22:17 Trilobite Testing, Inc



**FLUID SUMMARY** 

C&S Oil Company

19-11s-14w Russell KS

305 S ⊟m St

Rocking P #1-19

Russell KS 67665+3005

Job Ticket: 66383 DST#: 2

ATTN: Chad Counts

Test Start: 2020.03.10 @ 06:30:00

### **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil API: 40 deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 36000 ppm

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 8.39 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5500.00 ppm Filter Cake: inches

## **Recovery Information**

## Recovery Table

Length ft	Description	Volume bbl
180.00	GMW 10%G 10%M 80%W	2.552
25.00	GVSOCMW 10%G 1%O 30%M 59%W	0.354
15.00	GSWCMO 5%G 3%W 2%M 90%O	0.213
0.00	120 GIP 100%G	0.000

Total Length: 220.00 ft Total Volume: 3.119 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 2#LCM

RW=.257@54F

Trilobite Testing, Inc Ref. No: 66383 Printed: 2020.03.10 @ 13:22:17

