KOLAR Document ID: 1434441

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:			est
Address 2:		Feet from North / South Line of Sect	tion
City: State:	++	Feet from East / West Line of Sect	tion
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-Entr	y Workover	Field Name:	
	] SWD	Producing Formation:	
Gas DH	] SWB ] EOR	Elevation: Ground: Kelly Bushing:	
	GSW	Total Vertical Depth: Plug Back Total Depth:	
CM (Coal Bed Methane)	_	Amount of Surface Pipe Set and Cemented at: F	eet
	ol., etc.):	Multiple Stage Cementing Collar Used? Yes No	
If Workover/Re-entry: Old Well Info as		If yes, show depth set: F	eet
Operator:		If Alternate II completion, cement circulated from:	
Well Name:		feet depth to:w/sx c	cmt.
Original Comp. Date:			
Deepening Re-perf. Plug Back Liner	Conv. to EOR Conv. to SWD Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)	
□ O		Chloride content:ppm Fluid volume:b	bls
_ •	rmit #:	Dewatering method used:	
	rmit #: rmit #:		
	rmit #:	Location of fluid disposal if hauled offsite:	
	rmit #:	Operator Name:	
_ 33		Lease Name: License #:	
Spud Date or Date Reached	Completion Data co	Quarter Sec TwpS. R	/est
Recompletion Date	d TD Completion Date or Recompletion Date	Countv: 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: 1434441

#### 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	Used 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	/oolsey Operating Company, LLC					
Well Name	SMARSH 1					
Doc ID	1434441					

# 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	23	270	60/40 POZ	2% gel, 3% cc



# TREATMENT REPORT

Customer Woolsey Opersting						Lease No.					Date 1 2 12 1 2 1 2						
Lase Smsrsh						Well #					1 .	12/9/2018					
Field Order # Station Drath Ics						Casing Depth					County Kingman State						
Type Job 242/8 5/8 SULL						ace			Form	ation	8			Legal De	scription	21-	308-75
PIPE DATA PERFORATING					DATA		FLUID U	JSED			T	REA	TMENT			<i>2</i> ,	
Casing Size	Tubing Siz	ze	Shots/F	t		,	Acid				, San	RATE	PRE	SS	ISIP		
Depth 267	Depth		From		То		Pre I	Pad			Max	× .			5 Min.	-	
Volume / 7	Volume		From		То		Pad				Min		٠		10 Min.		3
Max Press	Max Press	S	From		То		Frac		σ.		Avg	-		=	15 Min.		-
Well Connection	on Annulus V	/ol.	From		То				•		HHP Use	d			Annulus	3 Press	sure
Plug Depth	Packer De	epth	From		То		Flus	h W9te	20		Gas Volu			1.	Total Lo	ad	
Customer Rep	oresentative	919	in I	Dic	IC	Station	n Mana	gerJusa	tin 4	ves	Stermen	Treat	ter D	grin	Fr	enjo	1in
Service Units	92511	78	982		343	1990.		9862			i de la companya de l	See Secretary Mark	1477				
Driver Names	Pana	E	erz Ed	Bre	17	Dav.	2 /	DSVIZ	-,3		450 A50		,				
Time	Casing Pressure		ubing essure	Bbl	ls. Pun	nped	F	Rate	and the same				Servi	ce Log			
5:30pm			n *				, ,		On	20	009+	col	591	Pen,	mee	ting	
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11:45 pm							2 "		Sho	1	10	7		20			
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Knox City Yard #1711 P.O. Box 115 Knox City, Texas 79529 Office: 940-658-1366

# PRESSURE PUMPING

100000000	I.a.				7	Report					
	Woolsey Op	erating			Cement Pump No.:	14982		Cementer:	Justin Trus	sell	
Address:	The second second					1711-09125A		Bulk Truck:	74564		
City, State, Zip:					Job Type:	Dryhole					
Service District:	1711				Well Type:	Oil					
Lease Name.:	Smarsh				Well No:	1	County	Kingman	State:	Kansas	
Size of Hole		7 7/8			Hole Cap.	0.0602	Packe	r	Casing		
Size Casing		Casing Wt.	1		Casing Cap.		Retaine	r	TD		
Size Tubing	4 1/2	Tubing Wt.			Tubing Cap.	0.01422	Perfs		DV Tool		
,	# of sacks	PPG	Yeil	đ	Water Req.	Class	Additives				
Stage 1 Lead	175	13.78	1.	.43	6.92	60/40	4% GEL				
Tail											
Stage 2 Lead					,						
Tail									-		
Time	Rate	Volume			Pressur	e(PSI)	Descri	otion of Operation	and Mate	rials	
	(BPM)	(BBLS)	T	С	Tubing	Casing		Spoiddol	. and mac	iais	
								SAFTEYN	MEETING		
								RIG		-	
	3.5	15			180			PUMP PAD 1	1150' 35sks		
	3.5	9			180			PUMP C	EMENT		
	3.5	8			200			FLUSH W/MUD			
	3.5	15			150	57 67 6		TUH			
	3.5	9			150				AD 750' 35sks		
	3.5	3			200				MP CEMENT		
								FLUSH W/MUD TUH			
	3.5	15			150		PUMP PAD 302' 35sks PUMP CEMENT				
	3.5	9			150						
	3.5	2			150			FLUSH V	V/MUD		
	3	15						TUI			
	3	6.5	-		110 110			PUMP PAD			
	-	0.0			110			PUMP CE			
	2.5	6.5			80			FILL RAT HO	•		
10:15 AM	2.5	5			80			FILL MOUSE H			
2/20/2019								WASH			
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			-	$\dashv$							
			$\neg$								
								-			
			_	_							
			$\dashv$	-							
			1								
					В	asic Represent	ative:	Justin Trussell			
stomer Signature:						ustomer Repre					



Woolsey Operating Co

21-30S-7W Kingman

Reference Elevations:

125 N Market Ste 1000 Wichita, KS 67202

Job Ticket: 64883

Smarsh 1

DST#: 1

1520.00 ft (KB)

1512.00 ft (CF)

ATTN: Bill Klaver

Test Start: 2018.12.17 @ 15:14:00

## GENERAL INFORMATION:

Formation: Mississippi

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

Time Tool Opened: 17:25:02 Tester: Leal Cason Time Test Ended: 21:22:02 Unit No: 74

Interval: 4224.00 ft (KB) To 4236.00 ft (KB) (TVD)

Total Depth: 4236.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

KB to GR/CF: 8.00 ft

Serial #: 8672 Inside

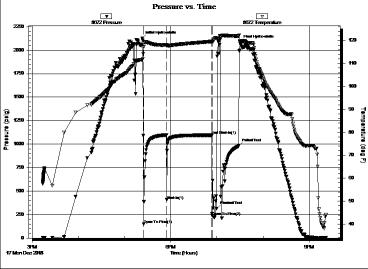
Press@RunDepth: 4225.00 ft (KB) Capacity: 406.07 psig @ psig

Start Date: 2018.12.17 End Date: 2018.12.17 Last Calib.: 2018.12.17 Start Time: 15:14:01 End Time: 21:22:02 Time On Btm: 2018.12.17 @ 17:23:02 Time Off Btm: 2018.12.17 @ 19:30:02

TEST COMMENT: IF: Weak Blow, Built to 4 1/2 inches

ISI: No Blow Back

FF: Weak Surface Blow, Flushed Tool, Weak Blow, Pulled Tool



	PRESSURE SUMMARY													
	Time	Pressure	Temp	Annotation										
	(Min.)	(psig)	(deg F)											
	0	2126.38	111.62	Initial Hydro-static										
	2	148.16	117.17	Open To Flow (1)										
	32	406.07	117.74	Shut-In(1)										
	91	1094.70	119.56	End Shut-In(1)										
	91	235.91	119.36	Open To Flow (2)										
	97	313.41	121.04	Flushed Tool										
	126	978.46	121.89	Pulled Tool										
,	128	2081.17	119.33	Final Hydro-static										

### Recovery

Length (ft)	Description	Volume (bbl)
80.00	Mud	1.12

Gas Rates				
	Choke (inches)	Pressure (nsig.)	Gas Rate (Mcf/d)	

Trilobite Testing, Inc. Ref. No: 64883 Printed: 2018.12.17 @ 21:57:45



Woolsey Operating Co

21-30S-7W Kingman

125 N Market Ste 1000 Wichita, KS 67202 Smarsh 1

Job Ticket: 64883 **DST#: 1** 

ATTN: Bill Klaver

Test Start: 2018.12.17 @ 15:14:00

## **GENERAL INFORMATION:**

Formation: Mississippi

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

Time Tool Opened: 17:25:02 Tester: Leal Cason Time Test Ended: 21:22:02 Unit No: 74

Interval: 4224.00 ft (KB) To 4236.00 ft (KB) (TVD) Reference Elevations: 1520.00 ft (KB)

Total Depth: 4236.00 ft (KB) (TVD) 1512.00 ft (KB) (TVD) 1512.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 4225.00 ft (KB) Capacity: psig

Start Date: 2018.12.17 End Date: 2018.12.17 Last Calib.: 2018.12.17

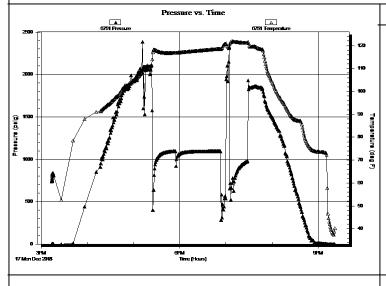
Start Time: 15:14:01 End Time: 21:22:02 Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak Blow, Built to 4 1/2 inches

ISI: No Blow Back

FF: Weak Surface Blow, Flushed Tool, Weak Blow, Pulled Tool



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

PRESSURE SUMMARY

### Recovery

Description	Volume (bbl)
Mud	1.12
	Mud

# Gas Rates Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 64883 Printed: 2018.12.17 @ 21:57:45



**FLUID SUMMARY** 

Woolsey Operating Co

21-30S-7W Kingman

125 N Market Ste 1000

Smarsh 1

Serial #:

Wichita, KS 67202

Job Ticket: 64883

DST#: 1

ATTN: Bill Klaver

Test Start: 2018.12.17 @ 15:14:00

## **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil API: deg API Mud Weight: Cushion Length: 9.00 lb/gal ft Water Salinity: ppm

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 8.78 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

Salinity: 10000.00 ppm Filter Cake: inches

# **Recovery Information**

## Recovery Table

Length ft	Description	Volume bbl
80.00	Mud	1.122

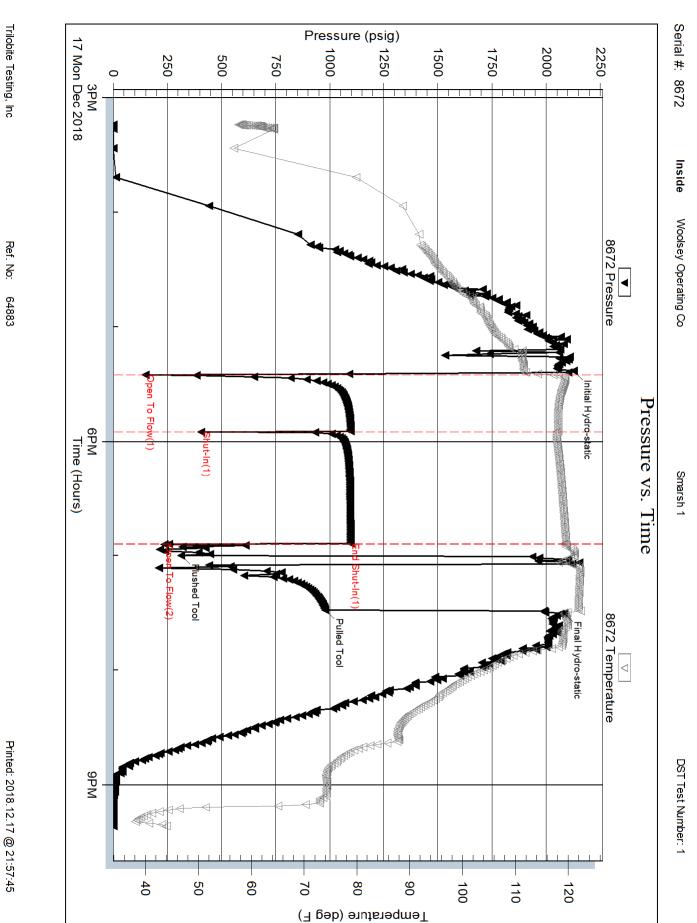
Total Volume: Total Length: 80.00 ft 1.122 bbl

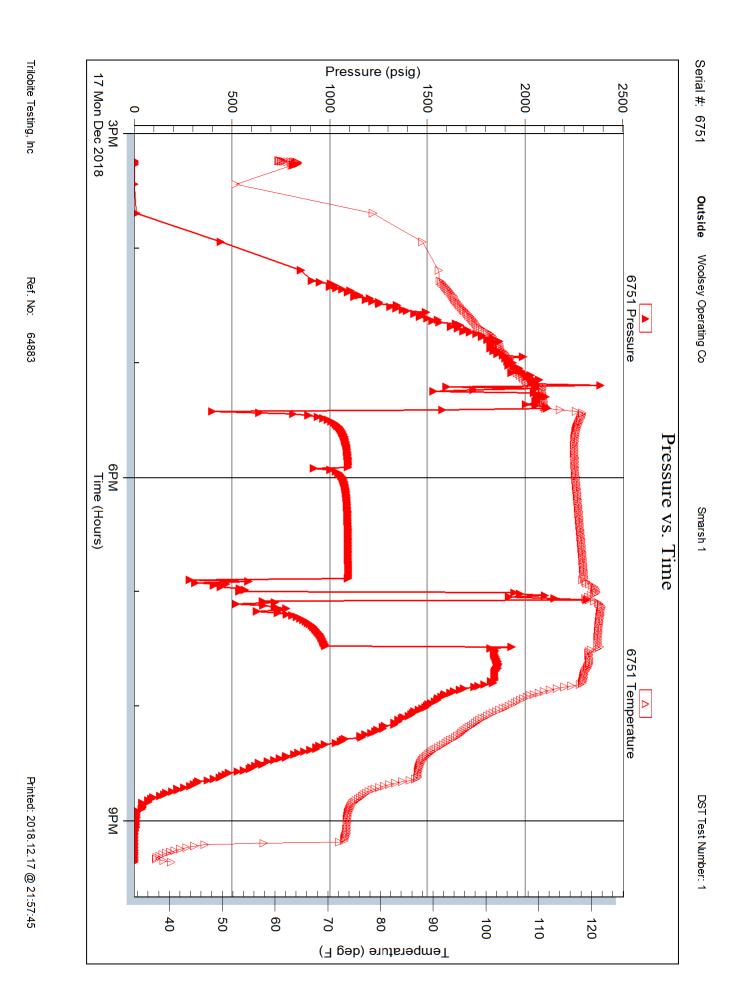
Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Printed: 2018.12.17 @ 21:57:45 Trilobite Testing, Inc Ref. No: 64883







Woolsey Operating Co

125 N Market Ste 1000 Wichita, KS 67202

ATTN: Bill Klaver

21-30S-7W Kingman

Smarsh 1

Job Ticket: 64884 DST#: 2

Test Start: 2018.12.18 @ 04:19:00

## **GENERAL INFORMATION:**

Formation: Mississippi

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:03:17 Time Test Ended: 12:13:02

4116.00 ft (KB) To 4236.00 ft (KB) (TVD) Interval:

Total Depth: 4236.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

1520.00 ft (KB)

Reference Elevations:

1512.00 ft (CF)

psig

KB to GR/CF: 8.00 ft

Serial #: 8672 Inside

Press@RunDepth: 54.05 psig @ 4117.00 ft (KB)

Start Date: 2018.12.18 Start Time: 04:19:01

End Date:

2018.12.18 End Time: 12:13:02 Capacity:

Last Calib.: 2018.12.18 Time On Btm: 2018.12.18 @ 06:02:17

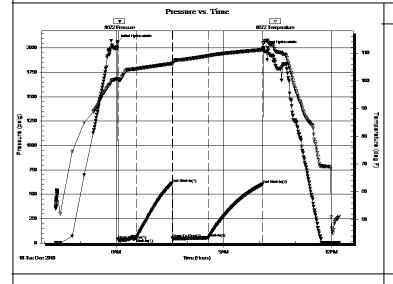
Time Off Btm: 2018.12.18 @ 10:06:32

TEST COMMENT: IF: Fair Blow, BOB in 12 minutes, Built to 29 1/2 inches

ISI: No Blow Back

FF: Strong Blow, BOB Immediate, Built to 78 inches

FSI: No Blow Back



## PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2062.87	100.70	Initial Hydro-static
1	37.28	100.12	Open To Flow (1)
31	44.24	104.30	Shut-In(1)
92	613.46	106.18	End Shut-In(1)
92	48.53	105.98	Open To Flow (2)
153	54.05	109.01	Shut-In(2)
243	604.12	111.20	End Shut-In(2)
245	1999.34	113.40	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)	
0.00	1028 GIP	0.00	
70.00	GCM 5%G 95%M	0.98	
* Recovery from multiple tests			

#### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 64884 Printed: 2018.12.18 @ 13:08:41



Woolsey Operating Co

21-30S-7W Kingman

125 N Market Ste 1000 Wichita, KS 67202

Smarsh 1

Job Ticket: 64884 DST#: 2

ATTN: Bill Klaver

Test Start: 2018.12.18 @ 04:19:00

## GENERAL INFORMATION:

Formation: Mississippi

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

Time Tool Opened: 06:03:17 Tester: Leal Cason Time Test Ended: 12:13:02 Unit No: 74

Interval: 4116.00 ft (KB) To 4236.00 ft (KB) (TVD) Reference Elevations:

1520.00 ft (KB) Total Depth: 4236.00 ft (KB) (TVD) 1512.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 6751 Outside

Press@RunDepth: 4117.00 ft (KB) Capacity: psig @ psig

Start Date: 2018.12.18 End Date: 2018.12.18 Last Calib.: 2018.12.18

Start Time: 04:19:01 End Time: Time On Btm: 12:13:02

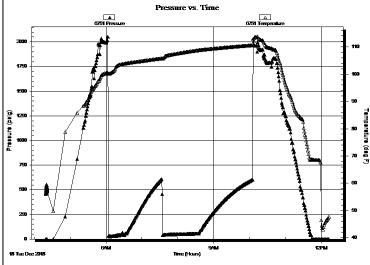
Time Off Btm:

TEST COMMENT: IF: Fair Blow, BOB in 12 minutes, Built to 29 1/2 inches

ISI: No Blow Back

FF: Strong Blow, BOB Immediate, Built to 78 inches

FSI: No Blow Back



PRESSURE S	SUMMARY
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	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
,				
Tamparatura (dad E)				
,				

### Recovery

Length (ft)	Description	Volume (bbl)	
0.00	1028 GIP	0.00	
70.00	GCM 5%G 95%M	0.98	
* Recovery from multiple tests			

#### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 64884 Printed: 2018.12.18 @ 13:08:42



**FLUID SUMMARY** 

Woolsey Operating Co

21-30S-7W Kingman

125 N Market Ste 1000 Wichita, KS 67202 Smarsh 1

Job Ticket: 64884

DST#: 2

ATTN: Bill Klaver

Test Start: 2018.12.18 @ 04:19:00

## **Mud and Cushion Information**

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

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 8.79 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 10000.00 ppm Filter Cake: inches

# **Recovery Information**

# Recovery Table

Length ft	Description	Volume bbl
0.00	1028 GIP	0.000
70.00	GCM 5%G 95%M	0.982

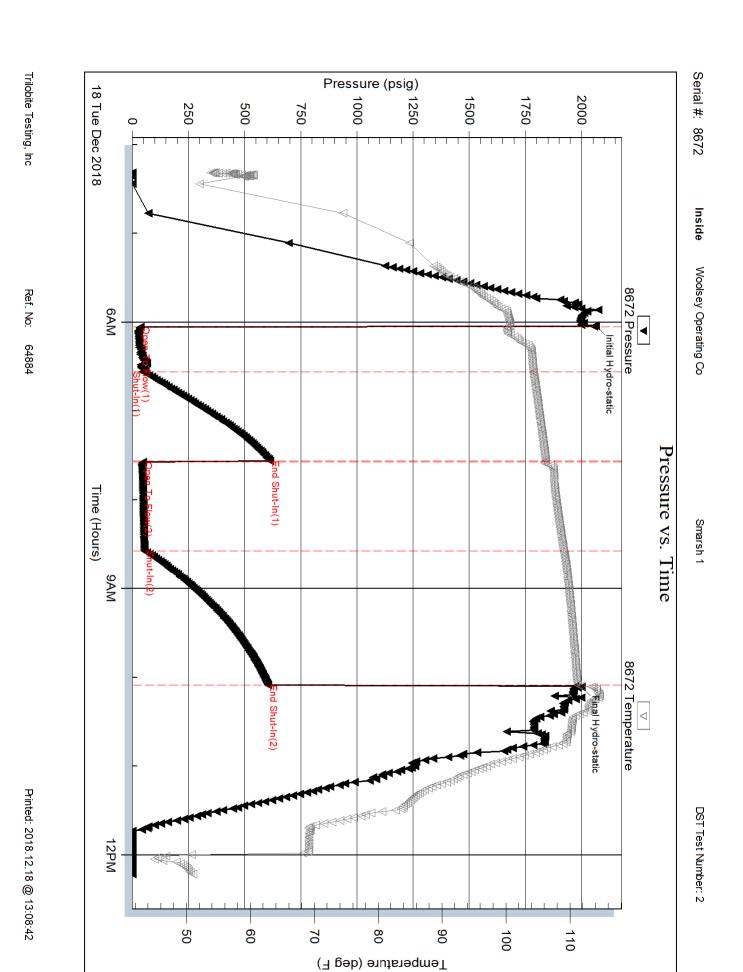
Total Length: 70.00 ft Total Volume: 0.982 bbl

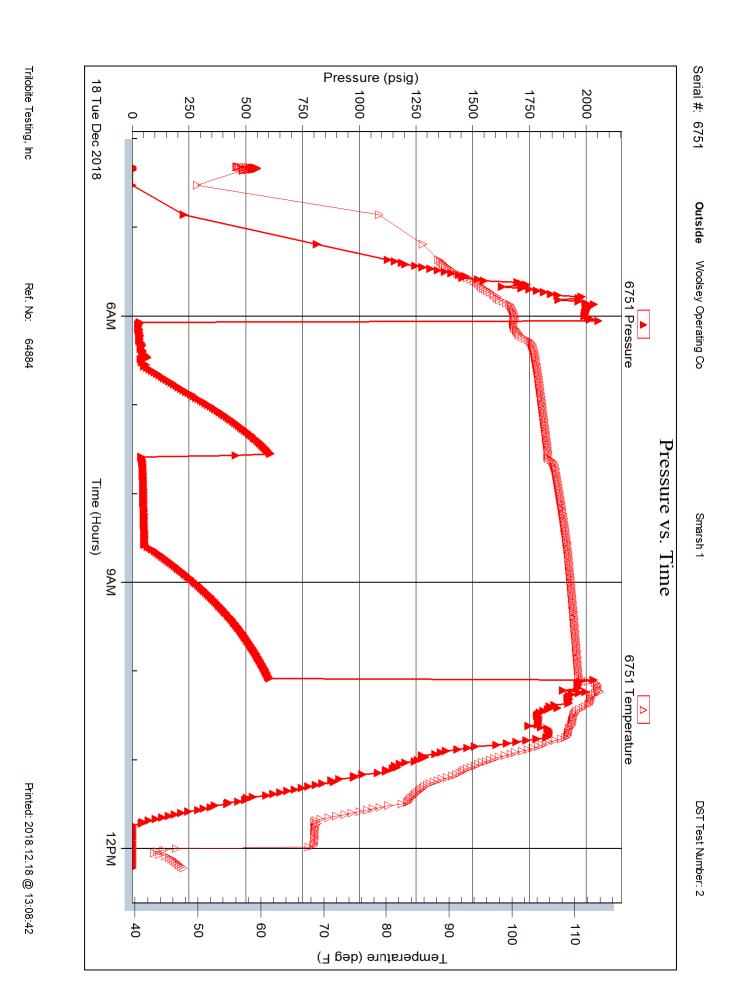
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 64884 Printed: 2018.12.18 @ 13:08:42







Woolsey Operating Co

125 N Market Ste 1000

Wichita, KS 67202

ATTN: Bill Klaver

21-30S-7W Kingman

Smarsh 1

Job Ticket: 64885 DST#: 3

Test Start: 2018.12.18 @ 21:56:00

## **GENERAL INFORMATION:**

Mississippi Formation:

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 00:00:47 Time Test Ended: 06:04:02

Interval: 4236.00 ft (KB) To 4250.00 ft (KB) (TVD)

Total Depth: 4250.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

1520.00 ft (KB)

Reference Elevations:

1512.00 ft (CF)

psig

KB to GR/CF: 8.00 ft

Serial #: 8672 Inside

4237.00 ft (KB) Press@RunDepth: 58.98 psig @

Start Date: 2018.12.18 Start Time: 21:56:01

End Date:

2018.12.19 End Time: 06:04:02 Capacity: Last Calib.:

2018.12.19

Time On Btm: 2018.12.18 @ 23:57:17

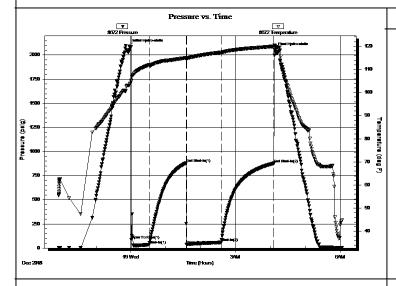
Time Off Btm: 2018.12.19 @ 04:08:02

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes, Built to 70 1/2 inches

ISI: No Blow Back

FF: Strong Blow, BOB Immediate, Built to 206 inches

FSI: 2 inch Blow Back



## PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2088.88	103.08	Initial Hydro-static
4	88.38	105.16	Open To Flow (1)
35	35.68	111.89	Shut-In(1)
98	881.60	114.85	End Shut-In(1)
99	35.16	114.74	Open To Flow (2)
159	58.98	117.33	Shut-In(2)
250	878.98	119.95	End Shut-In(2)
251	2054.11	120.07	Final Hydro-static

## Recovery

	Length (ft)	Description	Volume (bbl)	
	0.00	1296 GIP	0.00	
	90.00	90.00 SOMCW 6%O 24%M 70%W		
	* Recovery from multiple tests			

#### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 64885 Printed: 2018.12.19 @ 07:27:09



Woolsey Operating Co

21-30S-7W Kingman

125 N Market Ste 1000 Wichita, KS 67202

Smarsh 1

Job Ticket: 64885

DST#: 3

1512.00 ft (CF)

ATTN: Bill Klaver

Test Start: 2018.12.18 @ 21:56:00

## GENERAL INFORMATION:

Formation: Mississippi

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

Time Tool Opened: 00:00:47 Tester: Leal Cason Time Test Ended: 06:04:02 Unit No: 74

Interval: 4236.00 ft (KB) To 4250.00 ft (KB) (TVD) Reference Elevations: 1520.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 6751 Outside

Total Depth:

Press@RunDepth: 4237.00 ft (KB) psig @ Capacity: psig

Start Date: 2018.12.18 End Date: 2018.12.19 Last Calib.: 2018.12.19

Start Time: 21:56:01 End Time: Time On Btm: 06:04:02

Time Off Btm:

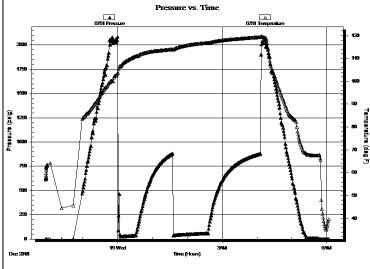
TEST COMMENT: IF: Strong Blow, BOB in 4 minutes, Built to 70 1/2 inches

ISI: No Blow Back

4250.00 ft (KB) (TVD)

FF: Strong Blow, BOB Immediate, Built to 206 inches

FSI: 2 inch Blow Back



	Pl	RESSUR	RE SUMMARY
ime	Pressure	Temp	Annotation

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
,				
Tamparatura (dad E)				
,				
,				

### Recovery

Length (ft)	Description	Volume (bbl)		
0.00	1296 GIP	0.00		
90.00	SOMCW 6%O 24%M 70%W	1.26		
* Recovery from multiple tests				

#### Gas Rates

	0	hoke (inches)	Pressure (psig)	Gas Rate (Mct/d)
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**FLUID SUMMARY** 

Woolsey Operating Co

21-30S-7W Kingman

125 N Market Ste 1000

Smarsh 1

DST#: 3

Wichita, KS 67202

Job Ticket: 64885

ATTN: Bill Klaver

Test Start: 2018.12.18 @ 21:56:00

## **Mud and Cushion Information**

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

Cushion Length: Mud Weight: 9.00 lb/gal ft Water Salinity: 80000 ppm

Viscosity: 57.00 sec/qt Cushion Volume: bbl

Water Loss: 8.79 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

Salinity: 7000.00 ppm Filter Cake: inches

# **Recovery Information**

## Recovery Table

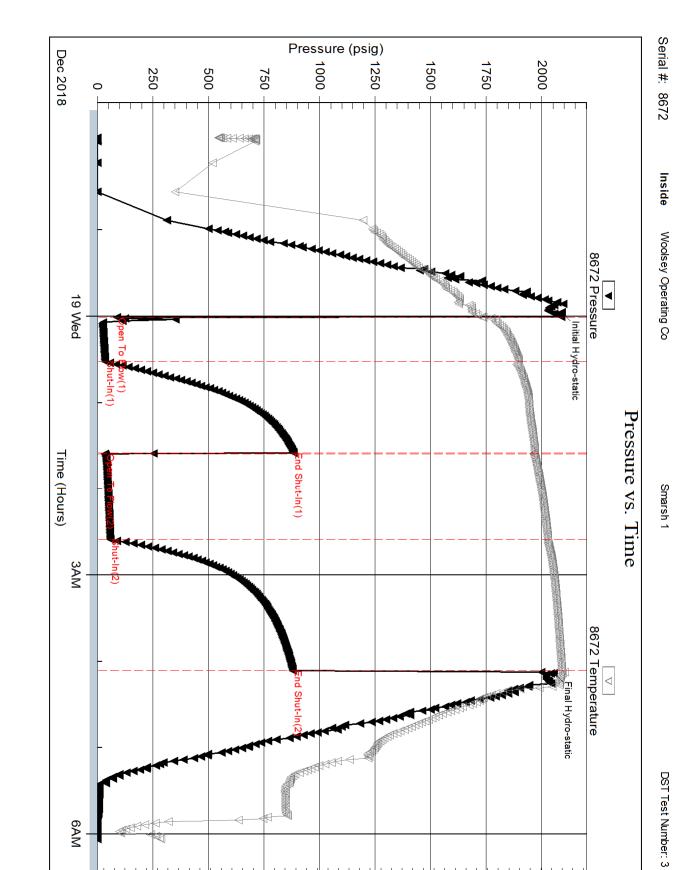
Length ft	Description	Volume bbl
0.00	1296 GIP	0.000
90.00	SOMCW 6%O 24%M 70%W	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

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

Laboratory Name: Laboratory Location: Recovery Comments: RW was .18 @ 38 degrees

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Temperature (deg F)

Trilobite Testing, Inc

