KOLAR Document ID: 1434037

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 East West
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:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ Gas ☐ DH ☐ EOR	Elevation: Ground: Kelly Bushing:
	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?
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)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	County: Permit #:
Troompeton bate	Ι ΟΠΙΙΚ π

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: 1434037

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	rpS	S. R	Eas	st West	County:					
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests (Attach Addit)		Yes No		Lo		n (Top), Depth a		Sample
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No						
			Rep	CASING	RECORD [Nev		on, etc.		
Purpose of St	tring	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		<u>'</u>	
Purpose: Perforate		Depth Top Bottom	Тур	pe of Cement	# Sacks Used Type and Percent Additives					
Protect Ca										
Plug Off Zo										
Did you perform Does the volume Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Produ Injection:	ction/Injectio	n or Resumed P	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>		
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			DN INTERVAL: Bottom
Vented		Used on Lease		Open Hole		Dually (Submit A		nmingled nit ACO-4)	Тор	BOLLOTTI
,	ed, Submit AC							·		
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)	
TUBING RECORI	D: S	Size:	Set A	: -	Packer At:					

Form	ACO1 - Well Completion			
Operator	Gore Oil Company			
Well Name	KEAS 1			
Doc ID	oc ID 1434037			

All Electric Logs Run

Dual Induction
Compensated Neutron-Density
Sonic, Microlog, Gamma Ray
Cement Bond

Form	ACO1 - Well Completion			
Operator	Gore Oil Company			
Well Name	KEAS 1			
Doc ID	1434037			

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	260	Common	3% cc, 2% gel
Production	7.875	5.5	15.5	3596	SMD	Multi Density w/ Flocele & Flocheck

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 346-337-6211 http://kcc.ks.gov/

Laura Kelly, Governor

Dwight D. Keen, Chair Shari Feist Albrecht, Commissioner Jay Scott Emler, Commissioner

January 18, 2019

Julie Thompson Gore Oil Company 202 S ST FRANCIS PO BOX 2757 WICHITA, KS 67202-2757

Re: ACO-1 API 15-163-24367-00-00 KEAS 1 SE/4 Sec.16-09S-17W Rooks County, Kansas

Dear Julie Thompson:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 08/29/2018 and the ACO-1 was received on January 18, 2019 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis

Job Ticket: 64079

Keas #1

Tester:

DST#: 1

Wichita, KS 67202-4518

Reference Elevations:

DO://. .

2107.00 ft (KB)

ATTN: Chuck Schmaltz

Test Start: 2018.09.02 @ 16:00:00

James Winder

GENERAL INFORMATION:

Formation: Toronto - Lans. "A"

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

Time Tool Opened: 18:08:30 Time Test Ended: 22:21:45

22:21:45 Unit No: 83

 Interval:
 3210.00 ft (KB) To
 3280.00 ft (KB) (TVD)

 Total Depth:
 3280.00 ft (KB) (TVD)

3280.00 ft (KB) (TVD) 2102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 28.57 psig @ 3211.00 ft (KB) Capacity: 8000.00 psig

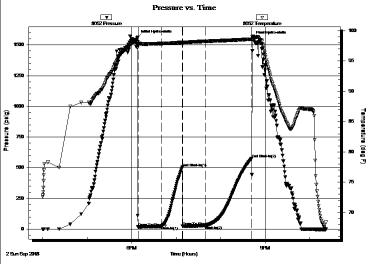
 Start Date:
 2018.09.02
 End Date:
 2018.09.02
 Last Calib.:
 2018.09.02

 Start Time:
 16:00:05
 End Time:
 22:21:44
 Time On Btm:
 2018.09.02 @ 18:08:00

 Time Off Btm:
 2018.09.02 @ 20:43:00

TEST COMMENT: 30 - IF: Weak surface blow, dead at 9 min.

30 - ISI: No blow 30 - FF: No blow 60 - FSI: No blow



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1560.90	98.14	Initial Hydro-static
	1	18.25	97.53	Open To Flow (1)
	32	23.16	97.89	Shut-In(1)
	61	503.36	98.08	End Shut-In(1)
	61	25.19	97.87	Open To Flow (2)
	91	28.57	98.25	Shut-In(2)
,	154	575.58	98.60	End Shut-In(2)
,	155	1553.68	99.09	Final Hydro-static

PRESSURE SUMMARY

Recovery

Description	Volume (bbl)		
15.00 Mud w /Oil spots 98%m, 2%o			
	·		

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

Gas Rates

Trilobite Testing, Inc Ref. No: 64079 Printed: 2018.09.02 @ 22:34:12



Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518

Job Ticket: 64079

Keas #1

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2018.09.02 @ 16:00:00

GENERAL INFORMATION:

Formation: Toronto - Lans. "A"

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

Time Tool Opened: 18:08:30 Time Test Ended: 22:21:45

Interval:

Tester: James Winder Unit No: 83

Reference Elevations:

3210.00 ft (KB) To 3280.00 ft (KB) (TVD)

2107.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

2102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

 Press@RunDepth:
 psig
 @
 3211.00 ft (KB)
 Capacity:
 8000.00 psig

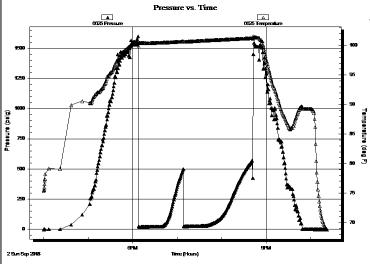
Start Date: 2018.09.02 End Date: 2018.09.02 Last Calib.: 2018.09.02

Start Time: 16:00:05 End Time: 22:22:14 Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Weak surface blow, dead at 9 min.

30 - ISI: No blow 30 - FF: No blow 60 - FSI: No blow



PRESSURE S	SUMMARY
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-	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	/ timotation
	(101111.)	(psig)	(deg r)	
=				
Ē				
Temperature (deg F)				
2				
5				
_				

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w /Oil spots 98%m, 2%o	0.07

Gas Rates

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

Trilobite Testing, Inc Ref. No: 64079 Printed: 2018.09.02 @ 22:34:12



FLUID SUMMARY

Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518

. . _

Keas #1

Job Ticket: 64079

Serial #:

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2018.09.02 @ 16:00:00

Mud and Cushion Information

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

Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 6.00 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2300.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w /Oil spots 98%m, 2%o	0.074

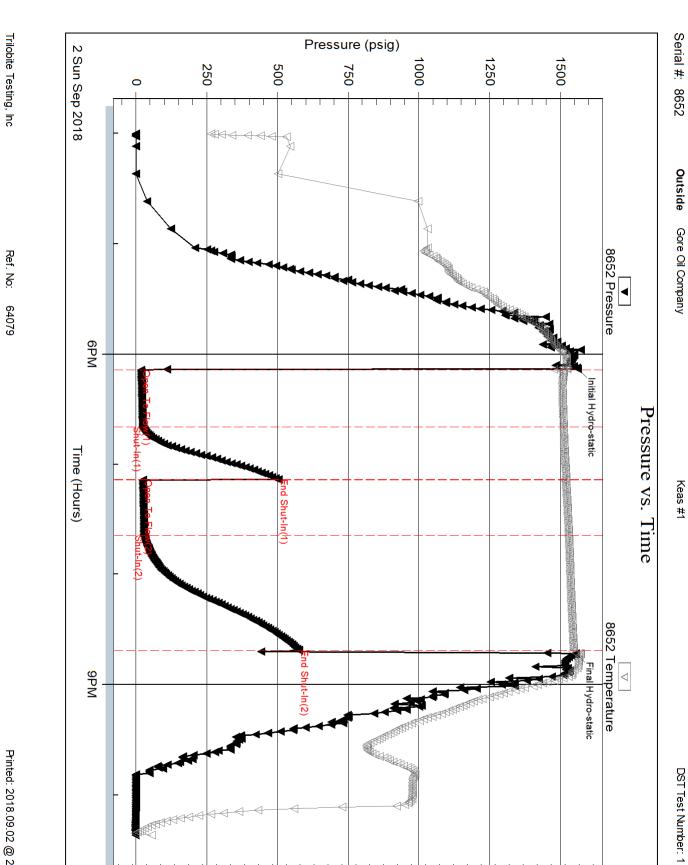
Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

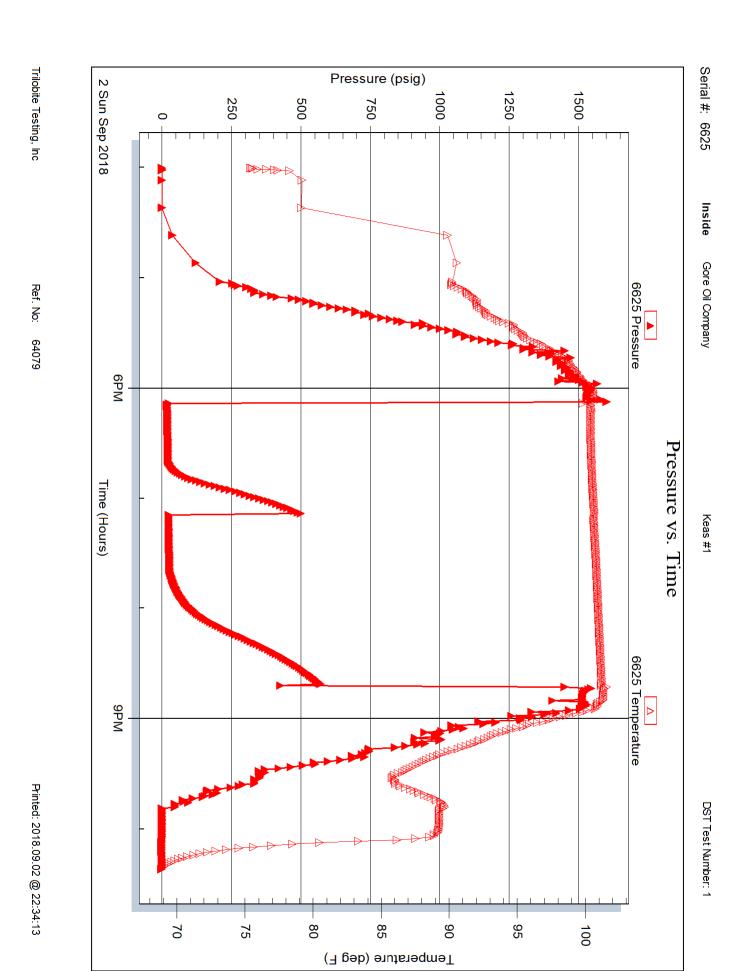
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 64079 Printed: 2018.09.02 @ 22:34:13



Temperature (deg F)





Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518

Job Ticket: 64080

Keas #1

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2018.09.03 @ 13:24:00

GENERAL INFORMATION:

Formation: Lans "B - G"

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

Time Tool Opened: 15:18:45 Tester: James Winder Time Test Ended: 21:27:15 83

Unit No:

Interval: 3271.00 ft (KB) To 3375.00 ft (KB) (TVD) Reference Elevations: 2107.00 ft (KB) Total Depth: 3375.00 ft (KB) (TVD)

2102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

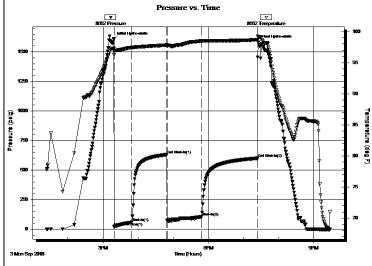
Serial #: 8652 Outside

Press@RunDepth: 105.90 psig @ 3272.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2018.09.03 End Date: 2018.09.03 Last Calib.: 2018.09.03 Start Time: 13:24:05 End Time: 21:27:14 Time On Btm: 2018.09.03 @ 15:18:30 Time Off Btm: 2018.09.03 @ 19:24:45

TEST COMMENT: 30 - IF: Blow built to 4 1/2"

60 - ISI: No blow back 60 - FF: Blow built to 5" 90 - FSI: No blow back



	PRESSURE SUMMARY			
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1607.59	97.33	Initial Hydro-static
	1	20.62	96.26	Open To Flow (1)
	31	58.89	97.42	Shut-In(1)
.	91	630.97	97.82	End Shut-In(1)
	91	69.19	97.67	Open To Flow (2)
	150	105.90	98.49	Shut-In(2)
,	246	600.39	98.66	End Shut-In(2)
,	247	1581.25	99.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)			
117.00	WCM w /oil spots 58%m, 37%w, 4%g,	1%0.58			
58.00	Mud w /oil spots 95%m, 3%o, 2%g	0.29			
10.00	OCM 70%m, 30%o	0.05			
2.00	MCO 90%o, 10%m				
* Recovery from mul	* Recovery from multiple tests				

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

Trilobite Testing, Inc. Ref. No: 64080 Printed: 2018.09.03 @ 23:21:24



Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis

Job Ticket: 64080

Keas #1

DST#: 2

Wichita, KS 67202-4518

JOD TICKEL 04000

Test Start: 2018.09.03 @ 13:24:00

ATTN: Chuck Schmaltz

GENERAL INFORMATION:

Formation: Lans "B - G"

Time Tool Opened: 15:18:45

Time Test Ended: 21:27:15

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder

rester. James wind

Unit No: 83

Interval: 3271.00 ft (KB) To 3375.00 ft (KB) (TVD)

Reference Elevations:

2107.00 ft (KB) 2102.00 ft (CF)

Total Depth: 3375.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 6625 Inside

Press@RunDepth: psig @ 3272.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig 2018.09.03

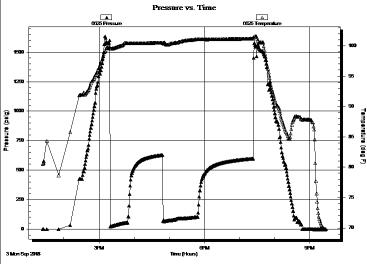
Start Date: 2018.09.03 Start Time: 13:24:05 End Date: 2018.09.03 End Time: 21:27:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 4 1/2"

60 - ISI: No blow back 60 - FF: Blow built to 5" 90 - FSI: No blow back



_				
-	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
	, ,	57	, , ,	
1				
Temperatura (dea F)				
ď				

Recovery

Length (ft)	Description	Volume (bbl)		
117.00	WCM w /oil spots 58%m, 37%w, 4%g, 1	1%0.58		
58.00	Mud w /oil spots 95%m, 3%o, 2%g	0.29		
10.00	OCM 70%m, 30%o	0.05		
2.00	MCO 90%o, 10%m	0.01		
* Recovery from multiple tests				

Gas Rates

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

Trilobite Testing, Inc Ref. No: 64080 Printed: 2018.09.03 @ 23:21:24



FLUID SUMMARY

Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis

Wichita, KS 67202-4518

Keas#1

Job Ticket: 64080

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2018.09.03 @ 13:24:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:37.6 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:25000 ppm

Viscosity: 60.00 sec/qt Cushion Volume: bbl

5.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
117.00	WCM w /oil spots 58%m, 37%w, 4%g, 1%o	0.575
58.00	Mud w /oil spots 95%m, 3%o, 2%g	0.285
10.00	OCM 70%m, 30%o	0.049
2.00	MCO 90%o, 10%m	0.010

Total Length: 187.00 ft Total Volume: 0.919 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 38.6 @ 70 deg F Corrected Gravity = 37.6 ?? very small sample to try to get a gravity

from

RW = .270 ohms @ 71.1 deg F Chlorides = 25,000 ppm

Trilobite Testing, Inc Ref. No: 64080 Printed: 2018.09.03 @ 23:21:24

90

85

Temperature (deg F)

80

95

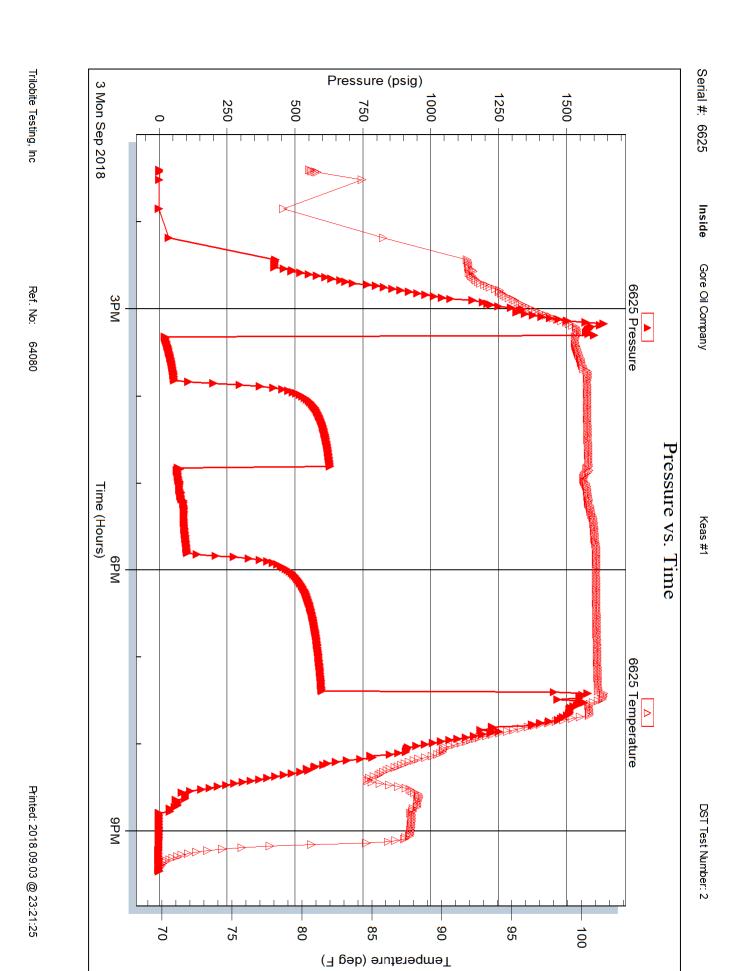
100

70

75

Trilobite Testing, Inc

Ref. No:





Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518

Job Ticket: 64462

Keas #1

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2018.09.04 @ 12:28:14

Test Type: Conventional Bottom Hole (Initial)

GENERAL INFORMATION:

Formation: LKC H-L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:41:33 Tester: Paul SImpson

Time Test Ended: 19:18:33 Unit No: 65

 Interval:
 3374.00 ft (KB) To
 3490.00 ft (KB) (TVD)
 Reference ⊟evations:
 2107.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD) 2102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8737 Outside

Press@RunDepth: 83.97 psig @ 3379.00 ft (KB) Capacity: 8000.00 psig

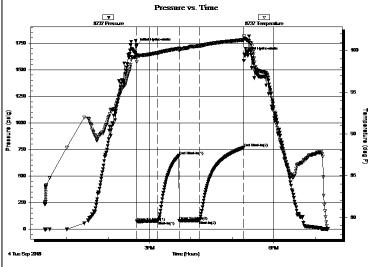
 Start Date:
 2018.09.04
 End Date:
 2018.09.04
 Last Calib.:
 1899.12.30

 Start Time:
 12:28:14
 End Time:
 19:18:33
 Time On Btm:
 2018.09.04 @ 14:41:23

 Time Off Btm:
 2018.09.04 @ 17:17:03

TEST COMMENT: 30- IF w eak blow built to .25"

30- no blow 30- no blow 60 no blow



		PI	RESSUR	RE SUMMARY
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1728.71	99.48	Initial Hydro-static
	1	73.89	98.61	Open To Flow (1)
	31	77.18	99.71	Shut-In(1)
	62	692.88	100.23	End Shut-In(1)
	62	80.03	99.95	Open To Flow (2)
	91	83.97	100.53	Shut-In(2)
(1	155	768.13	101.27	End Shut-In(2)
9	156	1643.15	101.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	5.00 mud oil spots in tool	

Gas Rat	es	
Choke (inches)	Proceure (peig)	Gas Pate (Mef/d)

Trilobite Testing, Inc Ref. No: 64462 Printed: 2018.09.04 @ 20:38:54



Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518

Job Ticket: 64462

Keas #1

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2018.09.04 @ 12:28:14

GENERAL INFORMATION:

Formation: LKC H-L

Deviated: Whipstock: No ft (KB)

Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 14:41:33 Tester: Paul SImpson

Time Test Ended: 19:18:33 Unit No: 65

Interval: 3374.00 ft (KB) To 3490.00 ft (KB) (TVD) Reference Elevations: 2107.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD) 2102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8653 Inside

Press@RunDepth: 3379.00 ft (KB) Capacity: 8000.00 psig psig @

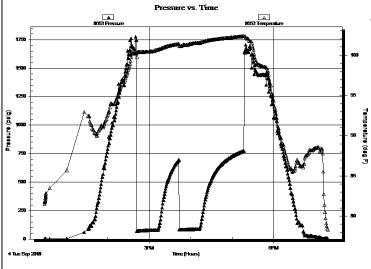
Start Date: 2018.09.04 End Date: 2018.09.04 Last Calib.: 1899.12.30

Start Time: 12:28:33 End Time: Time On Btm: 19:18:42

Time Off Btm:

TEST COMMENT: 30- IF w eak blow built to .25"

30- no blow 30- no blow 60 no blow



PI	RESSUR	RE SU	JMMARY	

Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
Temperatura (dea F)				
2				
6				
3				

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud oil spots in tool	0.02
1		·

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 64462 Printed: 2018.09.04 @ 20:38:54



FLUID SUMMARY

Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518 Keas #1

Job Ticket: 64462

Serial #:

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2018.09.04 @ 12:28:14

Mud and Cushion Information

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

Viscosity: 61.00 sec/qt Cushion Volume: bbl

Water Loss: 6.00 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud oil spots in tool	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 64462 Printed: 2018.09.04 @ 20:38:54

80

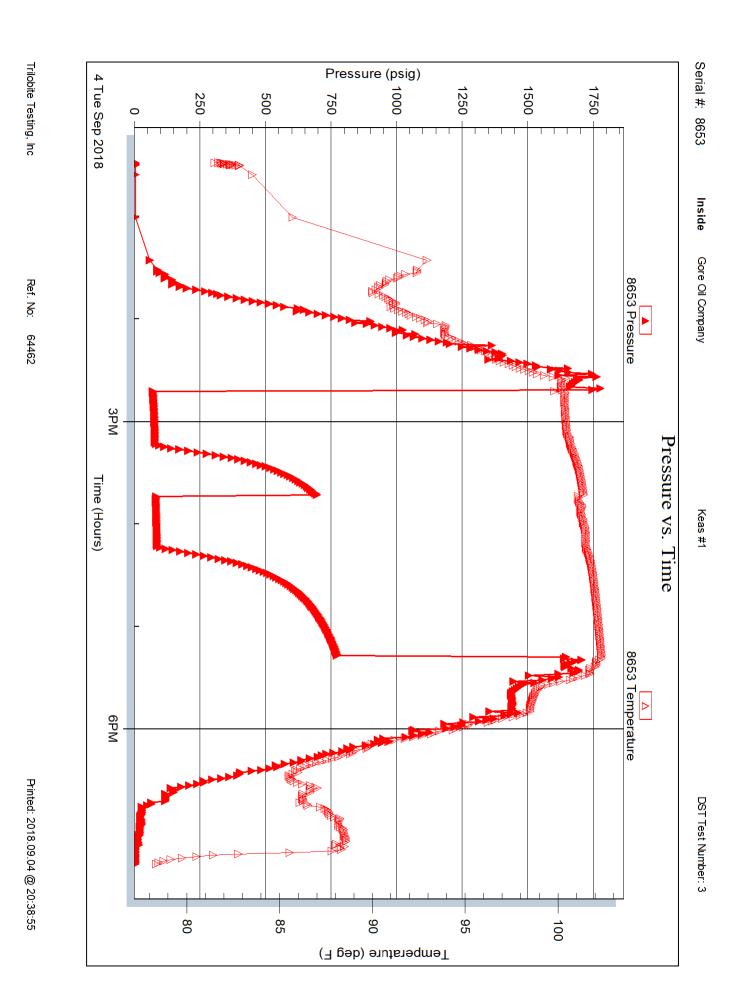
85

90

Temperature (deg F)

95

100





Gore Oil Company

16/9s/17w Rooks, KS

73

Reference Elevations:

202 S St. Francis Wichita, KS 67202-4518

Job Ticket: 63146

Keas #1

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2018.09.05 @ 04:00:12

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

3470.00 ft (KB) To 3540.00 ft (KB) (TVD)

Time Tool Opened: 08:08:12 Time Test Ended: 14:51:42

Interval:

2 Unit No:

Total Depth: 3540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale

2107.00 ft (KB) 2102.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753 Outside

 Press@RunDepth:
 156.65 psig @ 3471.00 ft (KB)
 Capacity:
 8000.00 psig

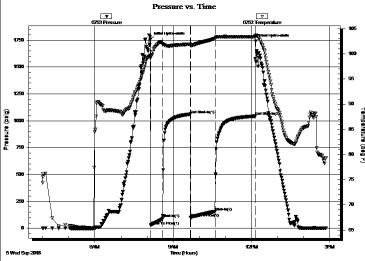
 Start Date:
 2018.09.05
 End Date:
 2018.09.05
 Last Calib.:
 2018.09.05

 Start Time:
 04:00:17
 End Time:
 14:51:42
 Time On Btm:
 2018.09.05 @ 08:07:42

 Time Off Btm:
 2018.09.05 @ 12:09:42

TEST COMMENT: 30- IF- BOB 25mins. Built to 12.5"

60- ISI- Weak surface blow died 16mins 60- FF- BOB 33mins. Built to 15" 90- FSI- Surface blow throughout



Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1756.58	99.69	Initial Hydro-static
	1	26.29	99.18	Open To Flow (1)
	29	95.86	101.83	Shut-In(1)
_	91	1060.54	101.92	End Shut-In(1)
Temperature	92	99.28	101.66	Open To Flow (2)
eture.	149	156.65	103.01	Shut-In(2)
(d eg	241	1043.00	103.42	End Shut-In(2)
9	242	1737.94	103.70	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)		
145.00	MCO, 30%M 70%O	0.71		
190.00	CGO, 15%G 85%O	2.14		
0.00	60' GIP	0.00		
* Recovery from multiple tests				

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

Trilobite Testing, Inc Ref. No: 63146 Printed: 2018.09.05 @ 15:08:02



Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518

Job Ticket: 63146

Keas #1

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2018.09.05 @ 04:00:12

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 08:08:12 Time Test Ended: 14:51:42

Tester: Brannan Lonsdale

Unit No: 73

3470.00 ft (KB) To 3540.00 ft (KB) (TVD)

Reference Elevations:

2107.00 ft (KB) 2102.00 ft (CF)

Total Depth: 3540.00 ft (KB) (TVD) 7.88 inches Hole Condition: Fair Hole Diameter:

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

psig @

3471.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Press@RunDepth: Start Date:

2018.09.05

End Date:

2018.09.05 14:52:22

Time On Btm:

2018.09.05

Start Time:

Interval:

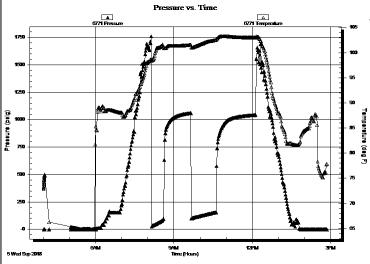
04:00:48

End Time:

Time Off Btm:

TEST COMMENT: 30- IF- BOB 25mins. Built to 12.5"

60- ISI- Weak surface blow died 16mins 60- FF- BOB 33mins. Built to 15" 90- FSI- Surface blow throughout



PRESSURE SUMMARY

Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
Temperature (deg F)				
2				
2				
J				

Recovery

Length (ft)	Description	Volume (bbl)		
145.00	MCO, 30%M 70%O	0.71		
190.00	CGO, 15%G 85%O	2.14		
0.00	60' GIP	0.00		
* Recovery from multiple tests				

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 63146 Printed: 2018.09.05 @ 15:08:02



FLUID SUMMARY

Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518 Keas #1

Job Ticket: 63146

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2018.09.05 @ 04:00:12

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:29 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:61.00 sec/qtCushion Volume:bbl

5.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2900.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
145.00	MCO, 30%M 70%O	0.713
190.00	CGO, 15%G 85%O	2.138
0.00	60' GIP	0.000

Total Length: 335.00 ft Total Volume: 2.851 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 63146 Printed: 2018.09.05 @ 15:08:03

90

85

Temperature (deg F)

100

105

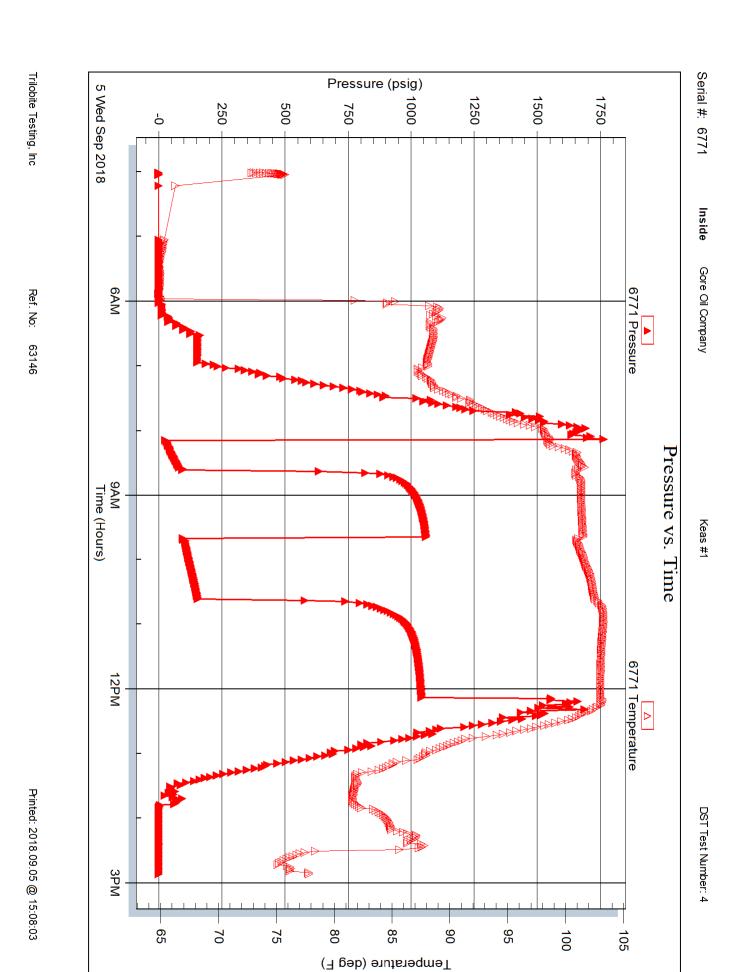
95

65

70

75

80





Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518

Job Ticket: 63147

Keas #1

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2018.09.05 @ 21:24:52

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:10:22 Time Test Ended: 05:34:22

Unit No: 73

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

3540.00 ft (KB) To 3550.00 ft (KB) (TVD)

Reference Elevations:

2107.00 ft (KB) 2102.00 ft (CF)

Total Depth: 3550.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

7.88 inches Hole Condition: Fair Hole Diameter:

Serial #: 6753

Interval:

Outside

3541.00 ft (KB) 26.07 psig @

Capacity:

8000.00 psig

Press@RunDepth: Start Date: 2018.09.05

End Date: 2018.09.06 Last Calib.: Time On Btm:

2018.09.06 2018.09.06 @ 00:09:52

Start Time: 21:24:57

End Time: 05:34:21

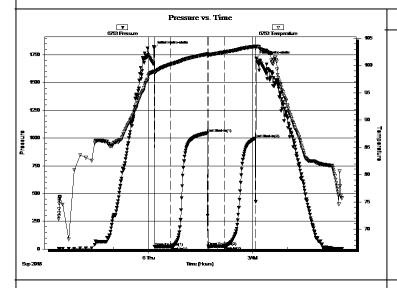
Time Off Btm: 2018.09.06 @ 03:06:22

TEST COMMENT: 30- IF- Weak surface blow built very slowly to .25"

60- ISI- No blow

30- FF- Surface blow died 6mins

60- FSI- No blow



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1810.50	98.95	Initial Hydro-static
1	21.81	98.55	Open To Flow (1)
29	23.80	100.25	Shut-In(1)
92	1045.32	102.09	End Shut-In(1)
94	23.98	101.91	Open To Flow (2)
121	26.07	102.44	Shut-In(2)
175	996.05	103.48	End Shut-In(2)
177	1718.52	103.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HOCM, 40%O 60%M	0.05
* Recovery from mul	tiple tests	,

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 63147

Printed: 2018.09.06 @ 07:10:44



Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis

Job Ticket: 63147

Keas #1

DST#: 5

Wichita, KS 67202-4518

Test Start: 2018.09.05 @ 21:24:52

ATTN: Chuck Schmaltz

GENERAL INFORMATION:

Formation: Arbuckle

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

Time Tool Opened: 00:10:22 Time Test Ended: 05:34:22 Tester: Brannan Lonsdale

Unit No: 73

Interval: 3540.00 ft (KB) To 3550.00 ft (KB) (TVD)

Reference Elevations:

2107.00 ft (KB) 2102.00 ft (CF)

Total Depth: 3550.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 6771

Press@RunDepth:

Inside

psig @ 3541.00 ft (KB)

Capacity:

8000.00 psig

2018.09.06

Start Date: 2018.09.05

End Date:

2018.09.06 Last Calib.: 05:34:09 Time On Btm:

Time On Bitm:

Start Time:

21:24:34

End Time: 05:34:0

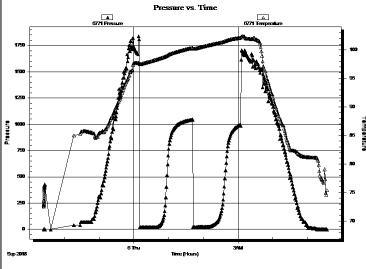
Time Off Btm:

TEST COMMENT: 30- IF- Weak surface blow built very slowly to .25"

60- ISI- No blow

30- FF- Surface blow died 6mins

60- FSI- No blow



PRESSURE S	SUMMARY
------------	---------

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HOCM, 40%O 60%M	0.05
* Recovery from mul	tiple tests	,

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 63147

Printed: 2018.09.06 @ 07:10:44



FLUID SUMMARY

ppm

Gore Oil Company

16/9s/17w Rooks, KS

202 S St. Francis Wichita, KS 67202-4518 Keas #1

Job Ticket: 63147

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2018.09.05 @ 21:24:52

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 29 deg API

Mud Weight: Cushion Length: 9.00 lb/gal ft Viscosity: 61.00 sec/qt

Cushion Volume: bbl

7.20 in³ Gas Cushion Type:

> Gas Cushion Pressure: psig

Salinity: 2900.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Resistivity:

Recovery Table

Length ft	Description	Volume bbl
10.00	HOCM. 40%O 60%M	0.049

Total Volume: 0.049 bbl Total Length: 10.00 ft

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

Laboratory Name: Laboratory Location:

Recovery Comments:

ohm.m

Printed: 2018.09.06 @ 07:10:45 Trilobite Testing, Inc Ref. No: 63147

70

75

80

90

85

Temperature

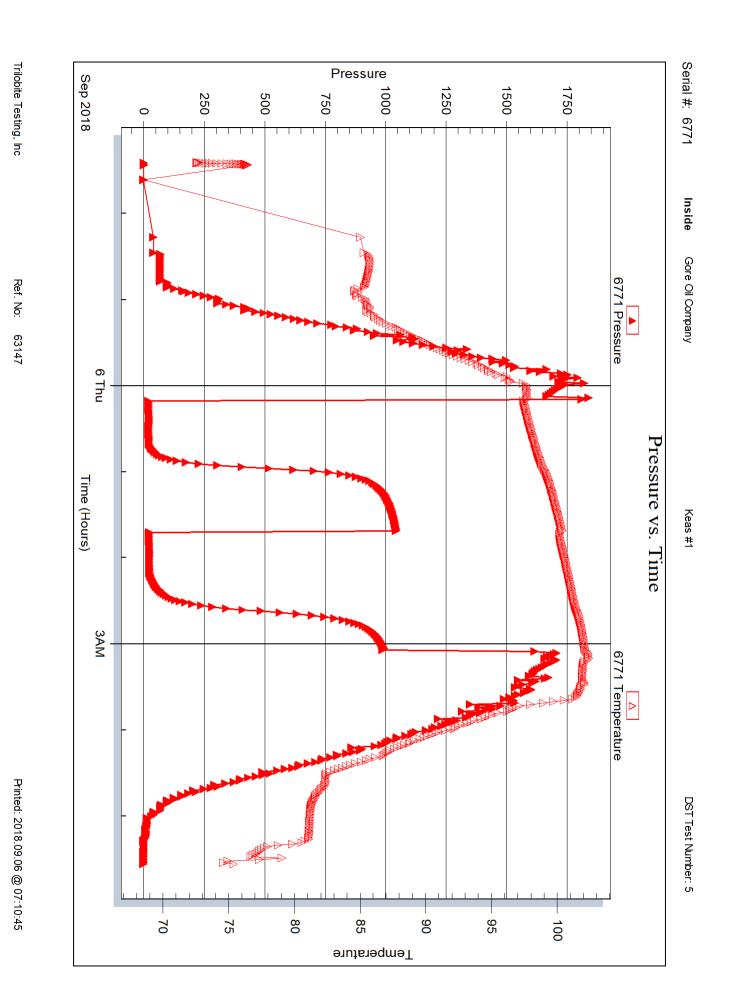
95

100

105

Trilobite Testing, Inc

Ref. No: 63147



GLOBAL OIL FIELD SERVICES, LLC

REMIT TO	24 S. Lincoln Russell, KS 67665		SER	VICE POINT:	Russell	A"
	SEC, TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE 3-29-19	8 30 63	16 m	0.1111111111111111111111111111111111111	ON LOCATION		10.30pm
LEASE KEAS	WELL#, /		Place Wets	N 2700	COUNTY	STATE 45
OLD OR NEW (CIRCLE ONE)	4 Santa was	Strate.			-
CONTRACTOR TYPE OF JOB 5	Muspina Martin	1. Rog # 27		Sore C	11 66.	
HOLE SIZE	-		CEMENT			باسر
	* .	PTH	AMOUNT ORD	ERED	1. 1 July 128 17	The Co
TUBING SIZE	DE	PTH	7 6 Ge1			
DRILL PIPE	DE	PTH				
TOOL		PTH				
PRES. MAX	MI	MUMUM	COMMON		@	
MEAS. LINE		DE JOINT	POZMIX		@	
CEMENT LEFT IN C	SG. 12.5/		GEL		@	
PERFS			CHLORIDE		@	
DISPLACEMENT	·		ASC		@	
	EQUIPMENT				@	
					@	
(**	CEMENTER (50)				@	
	HELPER CONTROL				@	
BULK TRUCK					@	
	DRIVER 15415				@	
BULK TRUCK					@	
#	DRIVER				@	7.
			HANDLING		@	
			MILEAGE			(ALICE - TAXA
Ronloss of River Pour	THE MELLER MELLER	Deviled tes		SER	VICE	
	380		DEPTH OF JOB			
			PUMP TRUCK CE			· · · · · · · · · · · · · · · · · · ·
(conside /)	DENERUlate #C	Jun 191 8	EXTRA FOOTAG		@	
			MILEAGE		@	
CHARGE TO:	Pare Cil Ca.				<u> </u>	
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CITY	STATEZIP -			PETTO 6 PE 6 .	m marron en e	
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01-1-1-01-51-1						
	Services, LLC		,		@	
You are hereby r	equested to rent cementi	ing equipment and				
rumish cementer a	and helper(s) to assist own	ner or contractor to			@	
uo work as is liste	d. The above work was	lone to satisfaction				
and supervision of	f owner agent or contract	or. I have read and			The second second	
understand the "	GENERAL TERMS AN	D CONDITIONS"				-
listed on the revers	se side.				TOTAL	
	- Z					
PRINTED NAME	1 11	10	SALES TAX (If A.	ry)		
	1 111 0	2.47/	manus acus (4174	7/		

IF PAID IN 30 DAYS

		STATE CITY	75	SHIPPED DELIVERED TO.	WACT LACATION	WELL PERMIT NO.
0		COUNTY/PARISH	ROOK	RIG NAME/NO.	# 27	JOB PURPOSE
CHARGE TO: ADDRESS CITY, STATE, ZIP CODE		LEASE	Keas	TOR N	Murtin Drilling	WELL CATEGORY
		WELL/PROJECT NO.	#47	TICKET TYPE CONTRACTOR	Ħ	
SIMIL	Services,	SERVICE LOCATIONS	TIMES IN	2 Ness C. 44, KS	6	

TICKET 27374

PAGE

WELL LOCATION

09/67 ORDER NO.

Thank You!

TOTAL

0 0 0

WE OPERATED THE EQUIPMENT
AND PERFORMED JOB
CALCULATIONS
SATISFACTORILY?
ARE YOU SATISFIED WITH OUR SERVICE?

NESS CITY, KS 67560 P.O. BOX 466

785-798-2300

D A.M.

TIME SIGNED

DATE SIGNED

R OF COSTOMER'S AGENT PRIOR TO OF GOODS

MUST BE SIGNED BY CUSTON START OF MORK OR JENYED

es recept of the materials and services listed on this tickel CUSTOMER DID NOT WISH TO RESPOND

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknow

APPROVAL

SWIFT OPERATOR

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No. 27374

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No. 27374	DATE AT/19 PAGE		25		europeoutus.												27.	***************************************	E1 = 0	CONTINUATION TOTAL
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	Ness Cft, KS 67560 Off: 785-798-2300	ACCOUNTING TIME		7			-													
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OB LC)G				SWIF	T Seri	vices. Inc. DATE PAGE NO
USTOMI	ER 0.1	7	WELL NO.		LEASE		JOB TYPE TICKET NO. Long String 27374
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSU TUBING		DESCRIPTION OF OPERATION AND MATERIALS
	0238		, ,,,,,,,		TOBING	OAOING	A location all Float Equipment
							On location w/ Float Equipment Rig laying Down collars.
							7 7 3
							RTD-3548'
				•			LTD-3600'
							Total Pipe - 3598.36'
		-			_		Shoe It - 10.09
							Baffle - 3588.21
							Centralizers - 1, 3, 5, 7, 9, 11, 13, 35, 52,4
-							Baskets - 14, 36, 53, 70
						•	
	0400						Start Running Fipe w/FE Break Circulation on Bottom.
i	Oleio		1				Break Circulation on Bottom.
	0710	2	0				Hook up to Swift
:	0715	2	-8				Plug RH W/30 SKS SMD
	0720	2	310	_		7.00	Plug MH W/ 15 SRS SMA
	0720	_ 	8			300	Pump/Bbbl KCL Water
		24	.5			300	Pump Flocheck 21 Pump MEDDI KCL water
	0725	4				200	Start Cont, Mix at H. 2
		41/2	106			-	Raise Wt to 11.4
	_		158			300	Raise W+ to 13.5
			189			300	Raise W+ to 14
			203				Fin Cont
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	9830	6/2					Drop Plus, Washout Pumpt Lines Start Displacement
		7/2	48		. <u>.</u>	600	Catch Cint
	0840	Le	85/2			1050/	Land Plus Litt 1050 Land 1608
	0845	.9.	**				Release Trick, Dry
		_		_			Release Truck, Dry Circulated Cont to Surface
	3			-			hashup
	_	-		_			Don Work
	0900						Job Complete Thanks Jon, Austin, Kirby
-		_	. = .	_			Thanks
-			* '				Jan, Austin, Kirby
	_						- / , / /

		LOG 7710	SCHM0112
R			NW NW - SEC 21 - TOS - RITW ROOK S CTV
ate			REFERENCE WELL FOR STRUCTURE MONTGOMERY DISILLING - CARMICHEAL#
of			
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din		illi illi illi illi illi illi illi ill	9-3 3332' 9 9-6 3556' D5T ^R S 9.1 60 6.4 26 10.5 10/23 2 [#]
ute Decr		TC	-1491 9-2 3222' 8 9-5 354b' D5T#4 9.1 60 7.2 27 10.5 19/29
reas		e INU	3511 3 - 1404 +89 9-1 2754 7 9-4 3468 DRLG 9.1 61 6.0 25 11.0 12/27 2"
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oot		Sc	- 1149 + 26 0:30 260 - WOLL 3 1-6 3 JAS VICLO 30 BU
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3 3 3	2 3	ands 8	E 1426 1422 +685 +40 DATE DEPTH MUD TYPE PINE SIZE:
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			1 12'4 SM RR 260' 260' 250' 234 @ 3280'-0.99 LING
			S JOOD CNIL COLL NO SIZE MAKE TYPE DEPTH OUT FEET HOURS FIRE JINNES. @ 2660' ~ 0.15 LONG
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		hert CT	LANS 'H'-'L' 30" 30" 60" 101 °F
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CHERTHANNE DEFINER I CHANGE I	Southerne	A	3374-74-77 102年 87年84 7179年
COPPESSION FOR SUPERSION OF SUP	STATE STATE	<u>411</u>	#1 T9S 6 LANS'B'-'B' 3D" 60" 90" 99°F
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337 0% MM 350 0%	(-8)	170P +711 BA:	Z Z
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			CLADITO CCLUANITZ GFOLOGIC DRILL STEM TESTS