KOLAR Document ID: 1756158

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  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	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
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)
Described	Chloride content: ppm Fluid volume: bbls
☐ Commingled     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if flauled offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
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 III Approved by: Date:

KOLAR Document ID: 1756158

#### 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.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Bruce Oil Company, L.L.C.
Well Name	GOLTL 1
Doc ID	1756158

## 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	220	80/20	3%cc 2%gel

## FRANKS Oilfield Service

♦ Office Phone (785) 639-3949

♦ 815 Main Street Victoria, KS 67671 ♦ 24 Hour Phone (785) 639-7269

♦ Email: franksoilfield@yahoo.com

TICKET NUMBER 1060 LOCATION Hoxie FOREMAN Tom Williams

## FIELD TICKET & TREATMENT REPORT

				CEMEN	Т			
DATE	CUSTOMER #	WEL	L NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
9-5-23	5610	Golfl	t	41	5	2	21	Graham
CUSTOMER	ruce O:1				TRUOK "			
MAILING ADDRI	ESS			-	TRUCK #	DRIVER	TRUCK #	DRIVER
					201	Tom W	<del> </del>	
CITY		STATE	ZIP CODE	-	aui	JackT	-	-
JOB TYPE 5	arture	HOLE SIZE	12 700	HOLE DEBTH	220'	CASING SIZE & \	VEICHT &	^ 234·
CASING DEPTH		DRILL PIPE				CASING SIZE & I	OTHER_	
	Т					CEMENT LEFT in		
DISPLACEMENT		DISPLACEMEN'	T PSI	MIX PSI		RATE	CAGING	
REMARKS: -5.	lete map	tine +	58 E 110 0	n Parcus	es. #4 -	( · male	40 00 1	
M: Y Qu	201x 80/	20 342	12:50%	20 17	GORAL V	Circula.	3 30	1.0
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		7		0 1,500	2001 .11	1 (50	1100
(	ement	Circulas	d					
		CH DOIGE						
					ブ	honks	Tam of it	ack
						11011-2	1000 +	
ACCOUNT CODE	QUANTITY	or UNITS	DE	SCRIPTION of	SERVICES or PRO	DUCT	UNIT PRICE	TOTAL
76002	1		PUMP CHARG	E S	urface		41/5000	\$1150cb
moal	55		MILEAGE				\$ 1,50	\$35750
moor	9,0	8 60ns	Ton M.	10090	Delivery	9	\$798 60	479860
46009		0 54	80/20	36 Cc.	26 cc		\$20 95	\$419000
		27			J			
<b>.</b>		-						
			3				subtord	\$4,494 10
						lese	5% disc.	\$ 374 80
						16.54	septotel	\$/,17/30
							SCOTOTO	Ple, 111
						-		
							SALES TAX	298.54
	^ .						ESTIMATED	
	Phase of	aschl	-				TOTAL	6469.84
UTHORIZATION	1100			TITLE			DATE	

i acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

## FRANKS Oilfield Service

♦ 815 Main Street Victoria, KS 67671 ♦ 24 Hour Phone (785) 639-7269

♦ Office Phone (785) 639-3949

♦ Email: franksoilfield@yahoo.com

TICKET NUMBER 1067

LOCATION Hotie

FOREMAN Tom Williams

## FIELD TICKET & TREATMENT REPORT

				CEMEN	IT			
DATE	CUSTOMER #	WELL	NAME & NUM	IBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-12-23	5610	601t		#1	5	6	21	Core harr
CUSTOMER B	race o:	1			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRI	SS	/		-	1	Tomb	THOOK #	Driven
					203	Chris K	<u> </u>	+
CITY	***************************************	STATE	ZIP CODE	-	200	CAULIS K	1	
							<del>                                     </del>	
JOB TYPE 17	TA	HOLE SIZE		HOLE DEPT	`L	CASING SIZE & V	VEIGHT	
		DRILL PIPE	( 42°C	_ TURING		O/ IOII VG OIZE & I	OTHER	· ·
	Π				sk	CEMENT-LEFT in		
DISPLACEMENT		DISPLACEMENT			The contract and the co		5,101110	
REMARKS:	Lite was	ation 1	Lpt.	100	Viscovere	HH Blo	9 65 05	doreN
	6.110	9	0000	7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
15 399	16 50	954						· · · · · · · · · · · · · · · · · · ·
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4) 27		Contraction of the Contraction o	A-0-0-0					
5) 40'	1054	WI Alua						
RH-	30 MI							
	31.		s estel			Thanks Tol	y dans	
ACCOUNT CODE	QUANTITY	or UNITS	D	ESCRIPTION (	of SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
peogs	1		PUMP CHAR	GE 27	A		\$150000	\$1500 00
m001	\$5		MILEAGE		· · · · · · · · · · · · · · · · · · ·		\$4 SO	\$357 90
W002	13.	57 Long	Ton	mileur	e Delive	ery	\$1,11952	\$1,11952
CBOYO	30	551	60/40	A 49040	Ky Floso	27	\$ 17 35	4529175
FE055	1			woode			\$1/2500	\$16500
					/ )			
							sub tatel	\$8,433
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						1655		801209
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					Property Section 1997			
		***************************************					1	
	AND STREET AND STREET,							
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Termina Selections			C. C	<u> </u>				
			Part of the second					
					market ship be an extracting and the		SALES TAX	388.79
					7-1100		ESTIMATED	
	Ryant	1.10-	-				TOTAL	8400.89
UTHORIZATION	1 Kyon of	1998/11		TITLE			DATE	

acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Prepared For: Bruce Oil Company Inc

1704 Limestone Rd

McPherson KS 67460+6500

ATTN: Mike Engelbrecht

#### Goltl#1

### 5-6s-21w Graham KS

Start Date: 2023.09.08 @ 21:16:00 End Date: 2023.09.09 @ 04:41:07

Job Ticket #: 71135

DST#: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

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



Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd

McPherson KS 67460+6500

Job Ticket: 71135

Goltl #1

**DST#: 1** 

ATTN: Mike Engelbrecht

Test Start: 2023.09.08 @ 21:16:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 23:47:02

Time Test Ended: 04:41:07

Formation:

Topeka

Deviated:

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Spencer J Staab

Tester: Unit No:

84

Reference Bevations:

2260.00 ft (KB)

2252.00 ft (CF)

KB to GR/CF:

8.00 ft

psig

Interval:

3254.00 ft (KB) To 3284.00 ft (KB) (TVD)

Total Depth:

3284.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Poor

Serial #: 8875 Press@RunDepth: Outside

239.23 psig @

3255.00 ft (KB)

2023.09.09 Last Calib.:

Capacity:

Start Date: Start Time: 2023.09.08 21:16:01

End Date: End Time:

04:41:07

Time On Btm:

2023.09.09 2023.09.08 @ 23:46:42

Time Off Btm:

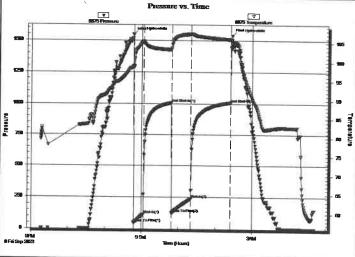
2023.09.09 @ 02:26:42

TEST COMMENT: 15-IF-BOB 6.5 mins Built to 23.25"

45-ISI-Very Weak Surface Died @ 5 mins

30-FF-BOB 7 mins Built to 35,25"

60-FSI-No Return



		P	RESSUF	RE SUMMARY
î	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1544.54	99.00	Initial Hydro-static
	1	49.74	98.80	Open To Flow (1)
	17	113.85	105.33	Shut-in(1)
	62	1005.46	103.30	End Shut-In(1)
1	63	126.39	103.67	Open To Flow (2)
	94	239.23	107.29	Shut-In(2)
3	158	1008.12	105.92	End Shut-In(2)
I	160	1536.90	105.26	Final Hydro-static
	1			

#### Recovery

Length (ft)	Description	Volume (bbl)
260.00	Water 100%W	3.41
120.00	SOCMW 5%O 30%M 65%W	1.70
90.00	OCWM 10%O 15%W 75%M	1.28
30.00	Heavy Oil 100%O Gravity < 19	0.43
0.00	RW=.081@65F=110,000	0.00

Gas Rat	Rates			
Choke (inches)	Pressure (psig)	Gas Rate (MM		

Trilobite Testing, Inc.

Ref. No: 71135



Bruce Oil Company Inc

5-6s-21w Graham KS Goltl #1

1704 Limestone Rd McPherson KS 67460+6500

Job Ticket: 71135

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2023.09.08 @ 21:16:00

#### GENERAL INFORMATION:

Formation:

Topeka

Deviated:

No Whipstock: ft (KB)

Time Tool Opened: 23:47:02 Time Test Ended: 04:41:07

Interval:

3254.00 ft (KB) To 3284.00 ft (KB) (TVD)

Total Depth: 3284.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)

Spencer J Staab

Tester:

Unit No: 84

Reference Elevations:

2260.00 ft (KB)

2252.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 6838 Press@RunDepth:

Inside

psig @

3255.00 ft (KB) End Date:

2023.09.09

Capacity:

psig

Start Date: Start Time: 2023.09.08

End Time:

Last Calib.: Time On Btm: 2023.09.09

21:16:01

04:41:07

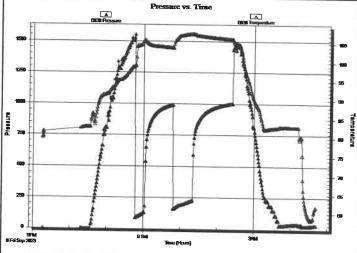
Time Off Btm;

TEST COMMENT: 15-IF-BOB 6.5 mins Built to 23.25"

45-ISI-Very Weak Surface Died @ 5 mins

30-FF-BOB 7 mins Built to 35.25"

60-FSI-No Return



ļ		PI	RESSUF	E SUMMARY	
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
					- 1
					- 1
3		1 1			
Temperature					
7					
1					
		1 1			1
		1 1			
		1 1			

#### Recovery

Length (ft)	Description	Volume (bbl)
260.00	Water 100%W	3.41
120.00	SOCMW 5%O 30%M 65%W	1.70
90.00	OCWM 10%O 15%W 75%M	1.28
30.00	Heavy Oil 100%O Gravity < 19	0.43
0.00	RW=.081@65F=110,000	0.00

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc

Ref. No: 71135



**TOOL DIAGRAM** 

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1

Job Ticket: 71135

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2023.09.08 @ 21:16:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 3197.00 ft Diameter:

Length:

ft Diameter: 30.00 ft Diameter:

3.82 inches Volume: 2.75 inches Volume: 2.25 inches Volume:

45.32 bbl - bbl 0.15 bbl Tool Weight:

2500.00 daN Weight set on Packer: 25000.00 daN

Tool Chased

Weight to Pull Loose: 62000.00 daN

Total Volume: - bbl

String Weight: Initial 51000.00 daN

Final 53000.00 daN

Drill Pipe Above KB: Depth to Top Packer:

Depth to Bottom Packer:

Interval between Packers:

5.00 ft 3254.00 ft

ft

30.00 ft

62.00 ft

2 Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3223.00		
Shut In Tool	5.00			3228,00		
Hydraulic tool	5.00			3233.00		
Jars	5.00			3238.00		
Gap Sub	4.00			3242.00		
Safety Joint	3.00			3245.00		
Packer	5.00			3250.00	32.00	Bottom Of Top Packer
Packer	4.00			3254.00	02.00	Bottom Or Top Facker
Stubb	1.00			3255.00		
Recorder	0.00	6838	Inside	3255.00		
Recorder	0.00	8875	Outside	3255.00		
Perforations	26.00			3281.00		
Bullnose	3.00			3284.00	30.00	Bottom Packers & Anchor

**Total Tool Length:** 

62.00

Trilobite Testing, Inc

Ref. No: 71135



**FLUID SUMMARY** 

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1

Job Ticket: 71135

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2023.09.08 @ 21:16:00

Oil API:

**Mud and Cushion Information** 

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal 69.00 sec/qt

Viscosity: Water Loss:

6.78 in<sup>3</sup>

Resistivity: Salinity: Filter Cake:

ohm.m 800.00 ppm

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type: Gas Cushion Pressure: ft bbl

psig

Serial #:

Water Salinity:

deg API 110000 ppm

inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
260.00	Water 100%W	3,408
120.00	SOCMW 5%O 30%M 65%W	1,701
90.00	OCWM 10%O 15%W 75%M	1,276
30.00	Heavy Oil 100%O Gravity < 19	0.425
0.00	RW=.081@65F=110,000	0.000

Total Length:

500.00 ft

Total Volume:

6.810 bbl

Num Fluid Samples: 0 Laboratory Name:

Num Gas Bombs:

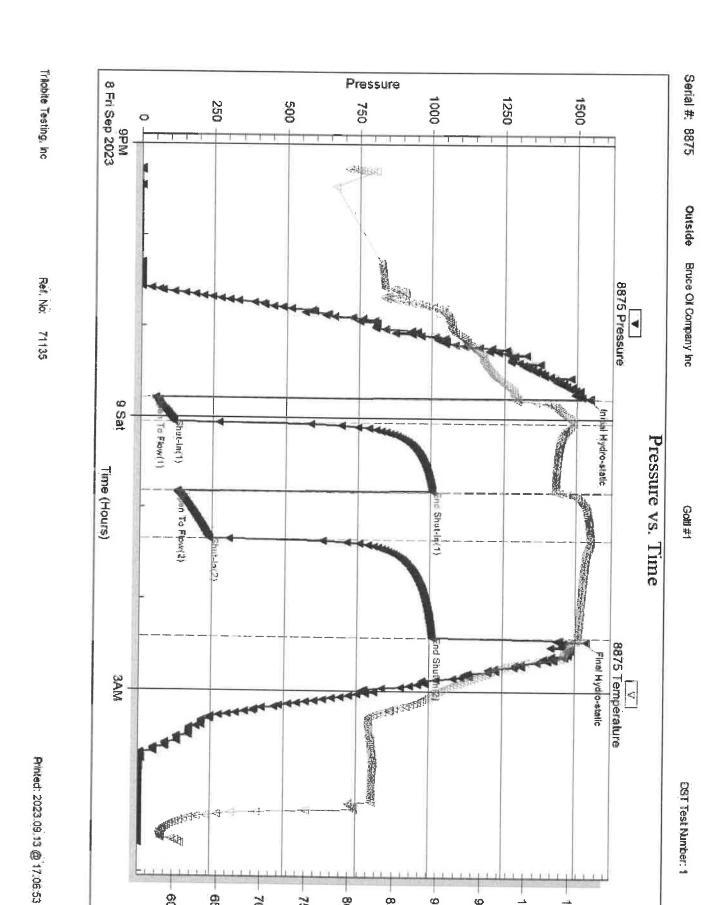
Laboratory Location:

Recovery Comments: 2#LCM

RW=.081@65F

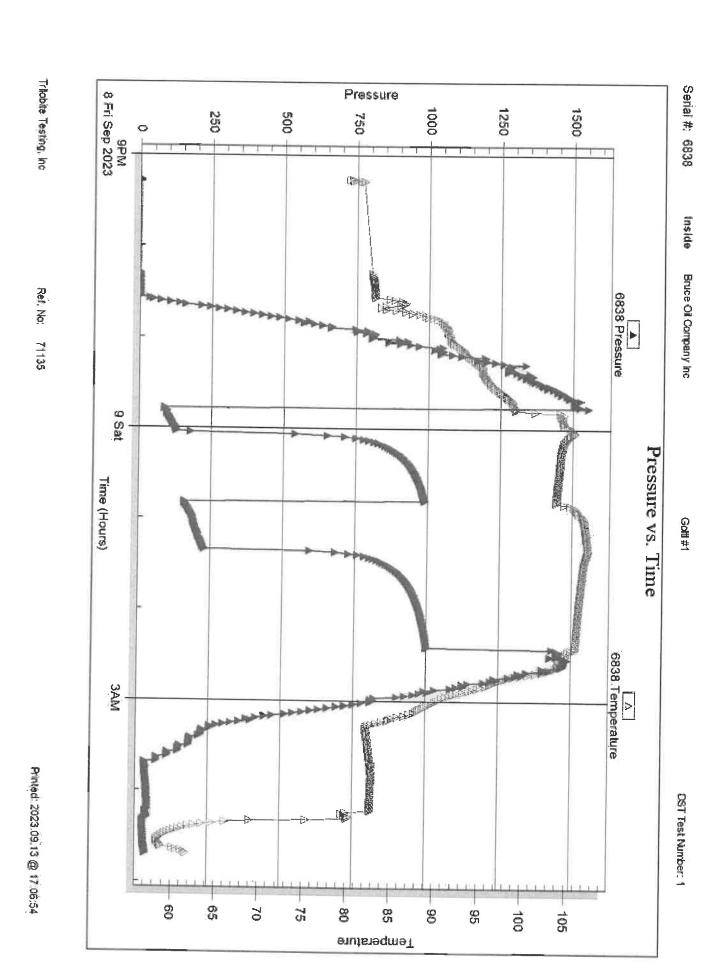
Trilobite Testing, Inc.

Ref. No: 71135



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Temperature





Prepared For: Bruce Oil Company Inc

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Mike Engelbrecht

#### Golti#1

### 5-6s-21w Graham KS

Start Date: 2023.09.09 @ 22:16:00 End Date: 2023.09.10 @ 04:55:07 Job Ticket #: 71136 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Job Ticket: 71136

Goltl #1

DST#: 2

ATTN: Mike Engelbrecht

Test Start: 2023.09.09 @ 22:16:00

#### GENERAL INFORMATION:

Formation:

Tor-LKC A

Deviated:

Interval:

No Whipstock:

ft (KB)

Time Tool Opened: 00:08:02 Time Test Ended: 04:55:07

3405.00 ft (KB) To 3466.00 ft (KB) (TVD)

Total Depth:

3466.00 ft (KB) (TVD)

Hole Diameter:

Start Date:

Start Time:

7.88 inches Hole Condition:

Test Type:

Conventional Bottom Hole (Reset)

Tester:

Spencer J Staab

Unit No:

Reference Bevations:

2260.00 ft (KB)

2252.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 8875 Press@RunDepth:

Inside

51.77 psig @ 2023.09.09 22:16:01

3408.00 ft (KB) End Date: End Time:

2023.09.10

Capacity:

psig

04:55:07

Last Calib.: Time On Btm;

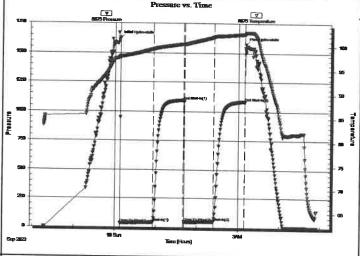
2023.09.10 2023.09.10 @ 00:07:42

Time Off Btm:

2023.09.10 @ 03:10:37

TEST COMMENT: 45-IF-Slid 5' Bled off 2.25" Blow Surface to 1.5"

45-ISI-No Return 45-FF-Surface to 1.25" 45-FSI-No Return



_				
		Р	RESSUF	RE SUMMARY
j	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1622.48	97.99	Initial Hydro-static
	1	36,73	97.54	Open To Flow (1)
	48	42.72	99.41	Shut-In(1)
J	93	1095.49	100.44	End Shut-In(1)
	94	47.75	100.33	Open To Flow (2)
	137	51.77	101.94	Shut-In(2)
1	182	1087.10	102.53	End Shut-In(2)
1	183	1573.78	102.63	Final Hydro-static
1				
- 1				

#### Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud w /oil spots 100%M	0.71
Recovery from n	nultiple tests	

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc.

Ref. No: 71136



Bruce Oil Company Inc

1704 Limestone Rd

McPherson KS 67460+6500

Goitl #1

Job Ticket: 71136

5-6s-21w Graham KS

DST#: 2

ATTN: Mike Engelbrecht

Test Start: 2023.09.09 @ 22:16:00

## GENERAL INFORMATION:

Formation:

Tor-LKC A

Deviated:

No Whipstock: ft (KB)

Time Tool Opened: 00:08:02 Time Test Ended: 04:55:07

Interval:

3405.00 ft (KB) To 3466.00 ft (KB) (TVD)

Total Depth:

3466.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition:

Test Type:

Conventional Bottom Hole (Reset)

Spencer J Staab

Tester:

Reference Elevations:

Unit No:

2260.00 ft (KB)

2252.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 6838 Press@RunDepth:

Inside

psig @

3408.00 ft (KB)

Capacity: 2023.09.10 Last Calib.: psig

Start Date: Start Time:

2023.09.09

End Date: End Time:

Time On Btm:

2023.09.10

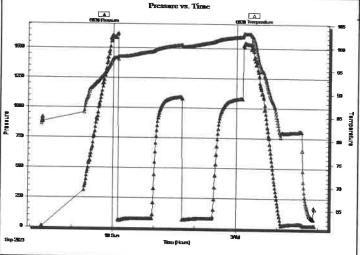
22:16:01

04:55:07

Time Off Btm:

TEST COMMENT: 45-IF-Slid 5' Bled off 2.25" Blow Surface to 1.5"

45-ISI-No Return 45-FF-Surface to 1.25" 45-FSI-No Return



PRESSURE SUMMARY							
Time (Min.)	Pressure (psig)	RESSUR Temp (deg F)	RE SUMMARY Annotation				

#### Recovery

Length (ft)	Description	Volume (bbi)
70.00	Mud w /oil spots 100%M	0.71
Recovery from r		

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc

Ref. No: 71136



**TOOL DIAGRAM** 

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1

Job Ticket: 71136

DST#: 2

ATTN: Mike Engelbrecht

Test Start: 2023.09.09 @ 22:16:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length:

Length: 3351.00 ft Diameter: ft Diameter: 30.00 ft Diameter: 3.82 inches Volume: 2.75 inches Volume: 2.25 inches Volume:

Total Volume:

47.50 bbl - bbl 0.15 bbl

- bbl

Tool Weight:

2500.00 daN Weight set on Packer: 25000.00 daN

Weight to Pull Loose: 60000.00 daN

Tool Chased String Weight: Initial 51000.00 daN

5.00 ft

Final 51000.00 daN

Drill Pipe Above KB: Depth to Top Packer:

Depth to Bottom Packer:

Interval between Packers:

8.00 ft 3405.00 ft

ft

61.00 ft

2

93.00 ft

Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3374.00		
Shut in Tool	5.00			3379.00		
Hydraulic tool	5.00			3384.00		
Jars	5.00			3389.00		
Gap Sub	4.00			3393.00		
Safety Joint	3.00			3396.00		
Packer	5.00			3401.00	32.00	Bottom Of Top Packer
Packer	4.00			3405.00	02.00	BOROTTOP FACKET
Stubb	1.00			3406.00		
Perforations	1.00			3407.00		
Change Over Sub	1.00			3408.00		
Recorder	0.00	6838	Inside	3408.00		
Recorder	0.00	8875	Inside	3408.00		
Drill Pipe	32.00			3440.00		
Change Over Sub	1.00			3441.00		
Perforations	22.00			3463.00		
Bullnose	3.00			3466.00	61.00	Bottom Packers & Anchor
Total Tool Length:	93.00				V 1100	Dottom actions a America



**FLUID SUMMARY** 

deg API

ppm

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1

Job Ticket: 71136

DST#: 2

ATTN: Mike Engelbrecht

Test Start: 2023.09.09 @ 22:16:00

Oil APL

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity:

59.00 sec/qt

Water Loss: Resistivity:

6.78 in<sup>3</sup> ohm.m 1000.00 ppm

Salinity: Filter Cake:

inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

bbl

ft

psig

**Recovery Information** 

Recovery Table

Length Description Volume bbl 70.00 Mud w/oil spots 100%M 0.715

Total Length:

70.00 ft

Total Volume:

0.715 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial#:

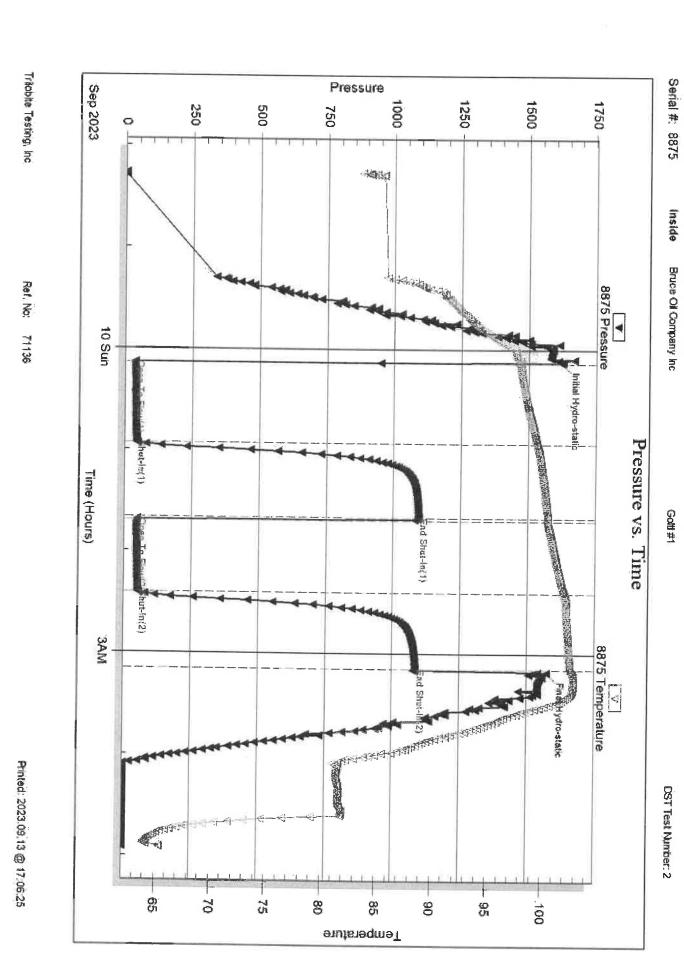
Laboratory Name:

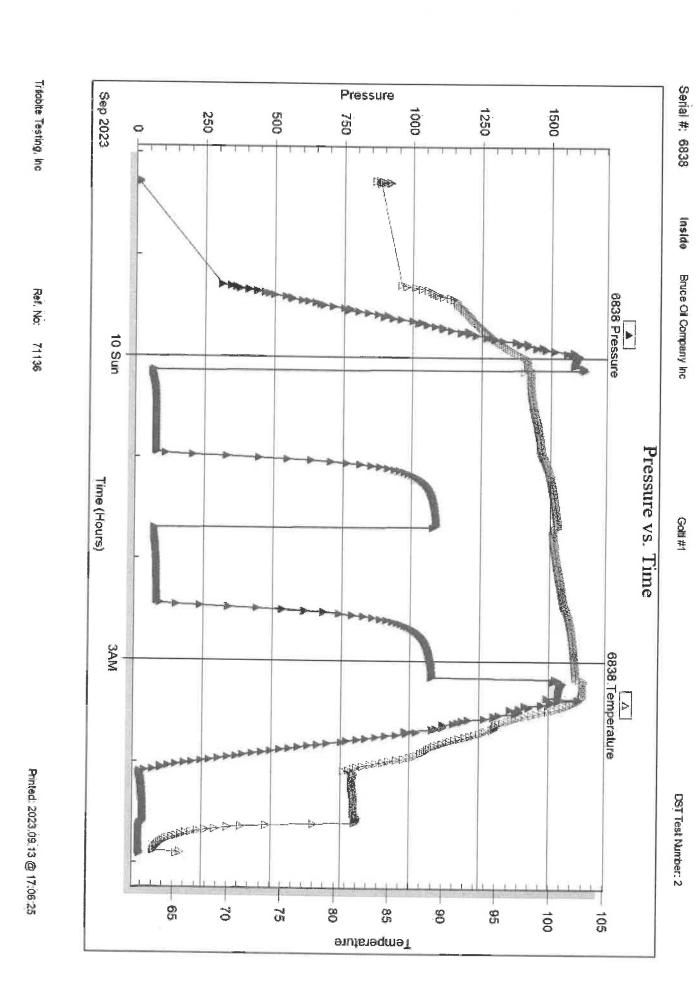
Laboratory Location:

Recovery Comments: 2#LCM

Trilobite Testing, Inc

Ref. No: 71136







Prepared For:

**Bruce Oil Company Inc** 

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Mike Engelbrecht

## Goltl#1

#### 5-6s-21w Graham KS

Start Date: 2023.09.10 @ 11:59:00

End Date:

2023.09.10 @ 18:04:52

Job Ticket #: 71137

DST#: 3

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

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



Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Job Ticket: 71137

Goltl #1

DST#: 3

ATTN: Mike Engelbrecht

Test Start: 2023.09.10 @ 11:59:00

#### GENERAL INFORMATION:

Formation:

LKC C

Deviated:

No

Whipstock:

ft (KB)

Time Tool Opened: 13:31:57 Time Test Ended: 18:04:52

Interval:

3475.00 ft (KB) To 3500.00 ft (KB) (TVD)

Total Depth:

3500.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type:

Conventional Bottom Hole (Reset)

Tester:

Spencer J Staab

Unit No:

Reference Elevations:

2260.00 ft (KB) 2252.00 ft (CF)

psig

KB to GR/CF:

8.00 ft

Serial #: 8875

Press@RunDepth:

Outside

19.98 psig @ 2023.09.10

3476.00 ft (KB) End Date:

2023.09.10

Capacity: Last Calib.:

2023.09.10

Start Date: Start Time:

11:59:01

End Time:

18:04:52

Time On Btm:

2023.09.10 @ 13:31:52

Time Off Btm:

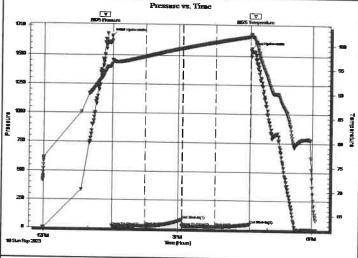
2023.09.10 @ 16:37:56

TEST COMMENT: 45-IF-Surface to 0.5" Died back to 0.25"

45-ISI-No Return

45-FF-Weak Surface Died @ 20 mins

45-FSI-No Return



		Р	RESSUF	RE SUMMARY
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1666.53	96.77	Initial Hydro-static
	1	17.73	96.00	Open To Flow (1)
	45	19.01	97.50	Shut-In(1)
	94	78.03	99.25	End Shut-In(1)
ă	94	19.09	99.26	Open To Flow (2)
Temperature	139	19.98	100.57	Shut-In(2)
3	185	43.21	101.79	End Shut-In(2)
	187	1564.40	102.15	Final Hydro-static
				-
				1

#### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02
Recovery from n	Nultiple tests	

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc

Ref. No: 71137



Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd

McPherson KS 67460+6500

Goltl #1

Job Ticket: 71137

DST#: 3

ATTN: Mike Engelbrecht

Test Start: 2023.09.10 @ 11:59:00

GENERAL INFORMATION:

Time Tool Opened: 13:31:57

Time Test Ended: 18:04:52

Formation:

LKC C

Deviated:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Spencer J Staab

Unit No:

Reference Bevations:

2260.00 ft (KB)

2252.00 ft (CF)

KB to GR/CF:

8.00 ft

Interval:

3475.00 ft (KB) To 3500.00 ft (KB) (TVD)

Total Depth: Hole Diameter:

3500.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Serial #: 6838 Press@RunDepth:

Inside

psig @

3476.00 ft (KB)

2023.09.10

Capacity:

psig

Start Date: Start Time:

2023.09.10

End Date:

18:04:52

Last Calib .: Time On Btm: 2023.09.10

11:59:01

End Time:

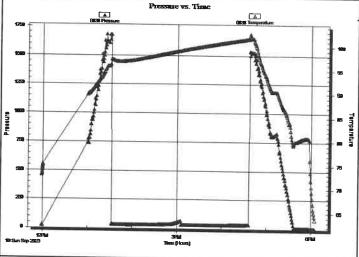
Time Off Btm:

TEST COMMENT: 45-IF-Surface to 0.5" Died back to 0.25"

45-ISI-No Return

45-FF-Weak Surface Died @ 20 mins

45-FSI-No Return



	PRESSURE SUMMARY							
	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
Tamparefur								
•				I I				
				Oli Carlo				
				1				
				1				
1								

#### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02
Recovery from m	nultiple tests	

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc

Ref. No: 71137



**TOOL DIAGRAM** 

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1

Job Ticket: 71137

DST#: 3

ATTN: Mike Engelbrecht

Test Start: 2023.09.10 @ 11:59:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length:

Length: 3417.00 ft Diameter:

ft Diameter: 30.00 ft Diameter: 3.82 inches Volume: 2.75 inches Volume: 2.25 inches Volume:

Total Volume:

48.44 bbl - bbl 0.15 bbl

Tool Weight: Weight set on Packer: 25000.00 daN

2500.00 daN

- bbl

Tool Chased

Weight to Pull Loose: 71000.00 daN

ft

String Weight: Initial 52000.00 daN Final 52000.00 daN

Drill Pipe Above KB: Depth to Top Packer:

Depth to Bottom Packer: Interval between Packers:

4.00 ft 3475.00 ft

25.00 ft

57.00 ft

Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3444.00		
Shut In Tool	5.00			3449.00		
Hydraulic tool	5.00			3454.00		
Jars	5.00			3459.00		
Gap Sub	4.00			3463.00		
Safety Joint	3.00			3466.00		
Packer	5.00			3471.00	32.00	Bottom Of Top Packer
Packer	4.00			3475.00	02.00	Bottom Or Top Facker
Stubb	1.00			3476.00		
Recorder	0.00	6838	Inside	3476.00		
Recorder	0.00	8875	Outside	3476.00		
Perforations	21.00			3497.00		
Bullnose	3.00			3500.00	25.00	Bottom Packers & Anchor
Total Table				3500.00	25.00	Bottom Packers & Anchor

Total Tool Length:

57.00

Trilobite Testing, Inc

Ref. No: 71137



**FLUID SUMMARY** 

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1

Job Ticket: 71137

DST#: 3

ATTN: Mike Engelbrecht

Test Start: 2023.09.10 @ 11:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

9.00 lb/gal 70.00 sec/qt

Viscosity: Water Loss:

6.39 in<sup>3</sup>

Resistivity: Salinity:

ohm.m 1000.00 ppm

Filter Cake:

inches

Cushion Type:

Cushion Length:

ft

Oil API: Water Salinity: deg API ppm

bbl

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

psig

**Recovery Information** 

Recovery Table

Length ft Description Volume bbl 5.00 Mud 100%M 0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

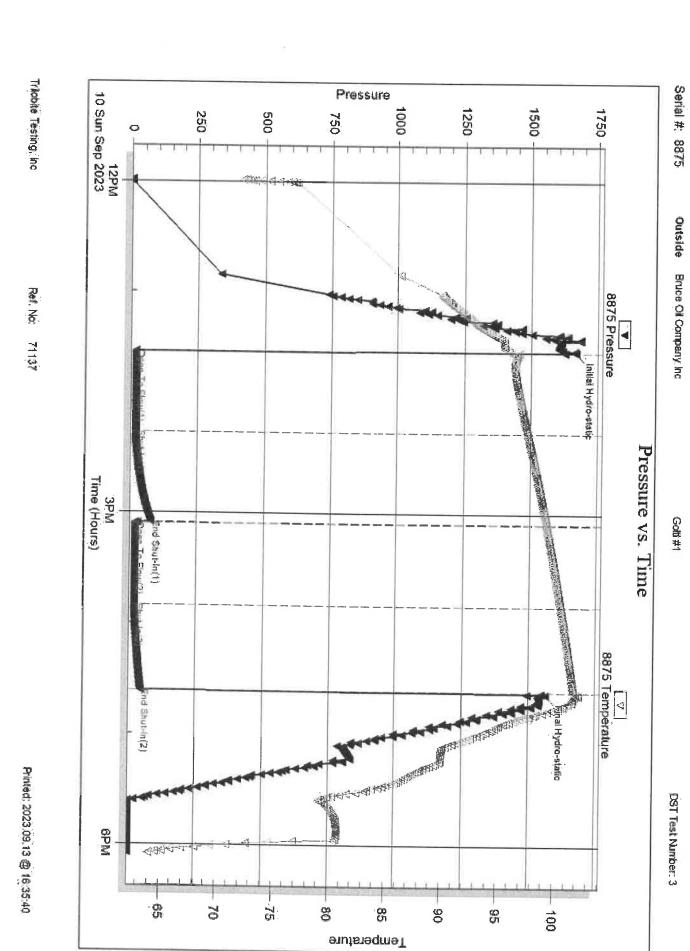
Laboratory Name:

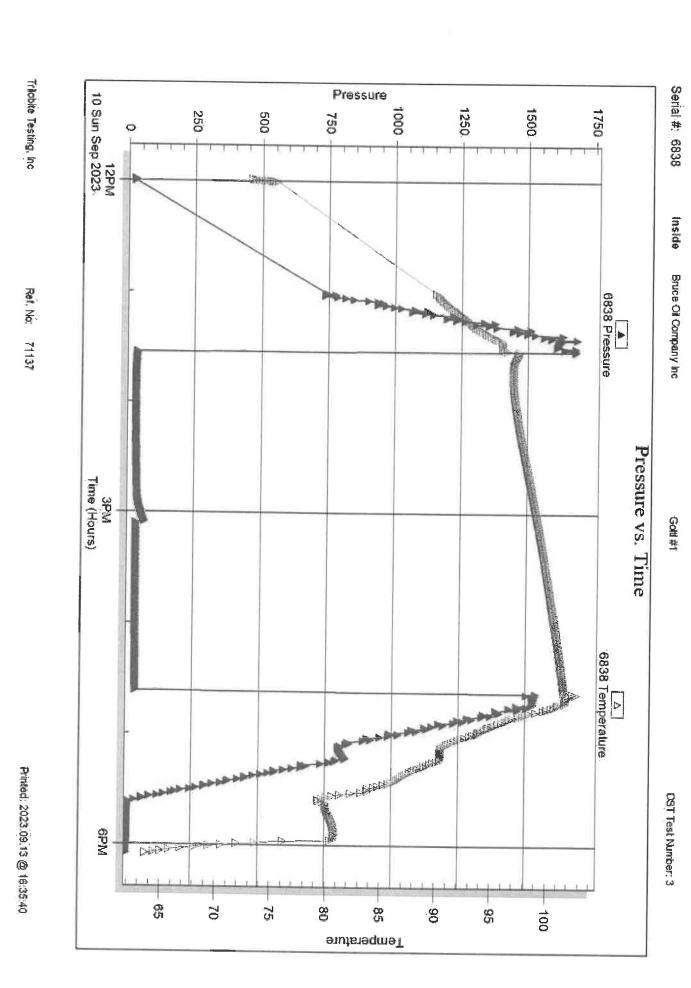
Laboratory Location:

Recovery Comments: 5#LCM

Trilobite Testing, Inc.

Ref. No: 71137







Prepared For:

**Bruce Oil Company Inc** 

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Mike Engelbrecht

#### Goltl#1

## 5-6s-21w Graham KS

Start Date: 2023.09.11 @ 02:19:00

End Date:

2023.09.11 @ 08:38:52

Job Ticket #: 71138

DST#: 4

Trilobite Testing, Inc. PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1 Job Ticket: 71138

DST#: 4

ATTN: Mike Engelbrecht

Test Start: 2023.09.11 @ 02:19:00

GENERAL INFORMATION:

Formation:

LKC D-F

Deviated:

Interval:

No Whipstock:

ft (KB)

Time Tool Opened: 04:15:37 Time Test Ended: 08:38:52

3498.00 ft (KB) To 3530.00 ft (KB) (TVD)

Total Depth:

3530.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester:

Spencer J Staab

Unit No:

84

Reference Elevations:

2260.00 ft (KB)

2252.00 ft (CF)

psig

KB to GR/CF:

8.00 ft

Serial #: 8875

Press@RunDepth:

Outside

267.15 psig @ 2023.09.11

3499.00 ft (KB) End Date:

2023.09.11

Capacity: Last Calib.:

Start Date: Start Time:

02:19:01

End Time:

08:38:52

Time On Btm:

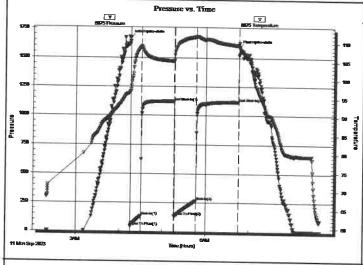
2023.09.11 2023.09.11 @ 04:15:22

Time Off Btm:

2023.09.11 @ 06:46:17

TEST COMMENT: 15-IF-BOB 7 mins Built to 24"

45-ISI-Weak Surface to 0.25" 30-FF-BOB 8 mins Built to 39" 60-FSI-Surface to 0.25"



L	PRESSURE SUMMARY								
	Time	Pressure	Temp	Annotation					
ı	(Min.)	(psig)	(deg F)						
l	0	1673,80	96.94	Initial Hydro-static					
l	1	43.90	96.85	Open To Flow (1)					
ı	15	132.19	108.94	Shut-In(1)					
ı	61	1124.35	105.12	End Shut-In(1)					
l	61	130.47	105.59	Open To Flow (2)					
l	92	267.15	111.65	Shut-In(2)					
	151	1119.46	109.36	End Shut-In(2)					
	151	1594.94	109.91	Final Hydro-static					
				The state of the s					

#### Recovery

Length (ft)	Description	Volume (bbl)
300.00	Water 100%W	3.97
240.00	MCW 15%M 85%W	3.40
0.00	RW=.151@62F=59,000	0.00
Recovery from r		

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc.

Ref. No: 71138



Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500 Goltl #1

Job Ticket: 71138

DST#: 4

ATTN: Mike Engelbrecht

Test Start: 2023.09.11 @ 02:19:00

#### GENERAL INFORMATION:

Formation:

LKC D-F

Deviated:

No Whipstock: ft (KB)

Time Tool Opened: 04:15:37 Time Test Ended: 08:38:52

3498.00 ft (KB) To 3530.00 ft (KB) (TVD)

Inside

3530.00 ft (KB) (TVD)

Total Depth: Hole Diameter:

Interval:

7.88 inches Hole Condition: Poor

Test Type:

Conventional Bottom Hole (Reset)

Spencer J Staab

Tester:

Unit No: 84

Reference ⊟evations:

2260.00 ft (KB)

2252.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 6838 Press@RunDepth:

psig @ 2023.09.11

3499.00 ft (KB) End Date:

2023.09.11

Capacity: Last Calib.:

psig

Start Date: Start Time:

02:19:01

End Time:

08:38:52

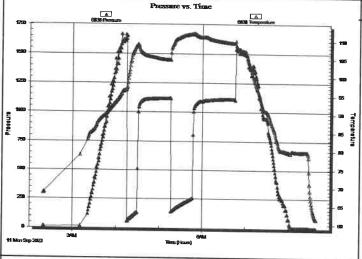
Time On Btm:

2023.09.11

Time Off Btm:

TEST COMMENT: 15-IF-BOB 7 mins Built to 24"

45-ISI-Weak Surface to 0.25" 30-FF-BOB 8 mins Built to 39" 60-FSI-Surface to 0,25"



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
ı				
١				
ı				
I				
1				
1				
1				
١				
I				
١				
١			- 1	

PRESSURE SUMMARY

#### Recovery

Length (ft)	Description	Volume (bbl)
300.00	Water 100%W	3.97
240.00	MCW 15%M 85%W	3.40
0.00	RW=.151@62F=59,000	0.00
Recovery from n		

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc.

Ref. No: 71138



**TOOL DIAGRAM** 

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1 Job Ticket: 71138

DST#: 4

ATTN: Mike Engelbrecht

Test Start: 2023.09.11 @ 02:19:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 3448.00 ft Diameter:

Length:

ft Diameter: 30.00 ft Diameter:

3.82 inches Volume: 2.75 inches Volume:

48.88 bbl - bbl Tool Weight: Weight set on Packer: 25000.00 daN

2500.00 daN

Drill Pipe Above KB:

12.00 ft

2.25 inches Volume: 0.15 bbl Total Volume:

Weight to Pull Loose: 60000.00 daN Tool Chased ft

Depth to Top Packer:

3498.00 ft ft

- bbl

String Weight: Initial 52000.00 daN Final

54000.00 daN

Depth to Bottom Packer: Interval between Packers:

32.00 ft

64.00 ft

2

Diameter:

6.75 inches

Number of Packers:

Tool Comments:

Tool Length:

<b>Tool Description</b>	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3467.00		
Shut In Tool	5.00			3472.00		
Hydraulic tool	5.00			3477.00		
Jars	5.00			3482.00		
Gap Sub	4.00			3486.00		
Safety Joint	3.00			3489.00		
Packer	5.00			3494.00	32.00	Bottom Of Top Packer
Packer	4.00			3498.00	02.00	DOMONTO TOP FACKET
Stubb	1.00			3499.00		
Recorder	0.00	6838	Inside	3499.00		
Recorder	0.00	8875	Outside	3499.00		
Perforations	28.00			3527.00		
Bullnose	3.00			3530.00	32.00	Bottom Packers & Anchor

**Total Tool Length:** 

64.00

Trilobite Testing, Inc

Ref. No: 71138



**FLUID SUMMARY** 

deg API

59000 ppm

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Goltl #1

Job Ticket: 71138

DST#: 4

ATTN: Mike Engelbrecht

Test Start: 2023.09.11 @ 02:19:00

Oil API:

Water Salinity:

**Mud and Cushion Information** 

Mud Type: Gel Chem

Mud Weight: Viscosity:

9.00 lb/gal 70.00 sec/qt

Water Loss: Resistivity:

6.39 in<sup>3</sup>

Salinity: Filter Cake:

ohm.m 1000.00 ppm

inches

Cushion Type:

Cushion Length:

ft

bbl

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

psig

Serial #:

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
300.00	Water 100%W	3.975
240.00	MCW 15%M 85%W	3,402
0.00	RW=.151@62F=59,000	0.000

Total Length:

540.00 ft

Total Volume:

7.377 bbl

Num Fluid Samples: 0 Laboratory Name:

Num Gas Bombs:

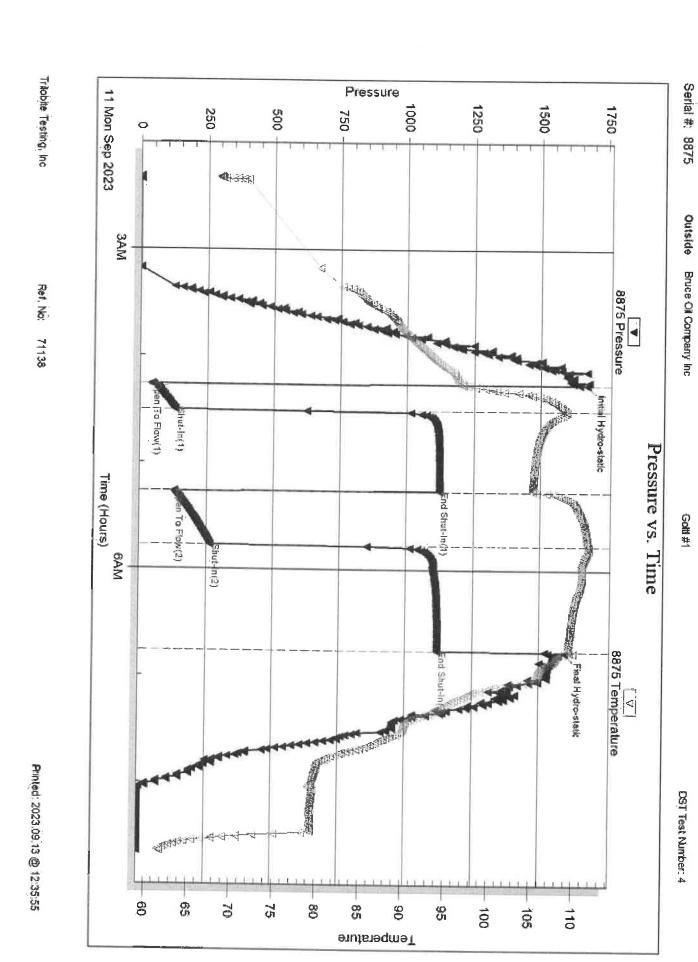
Laboratory Location:

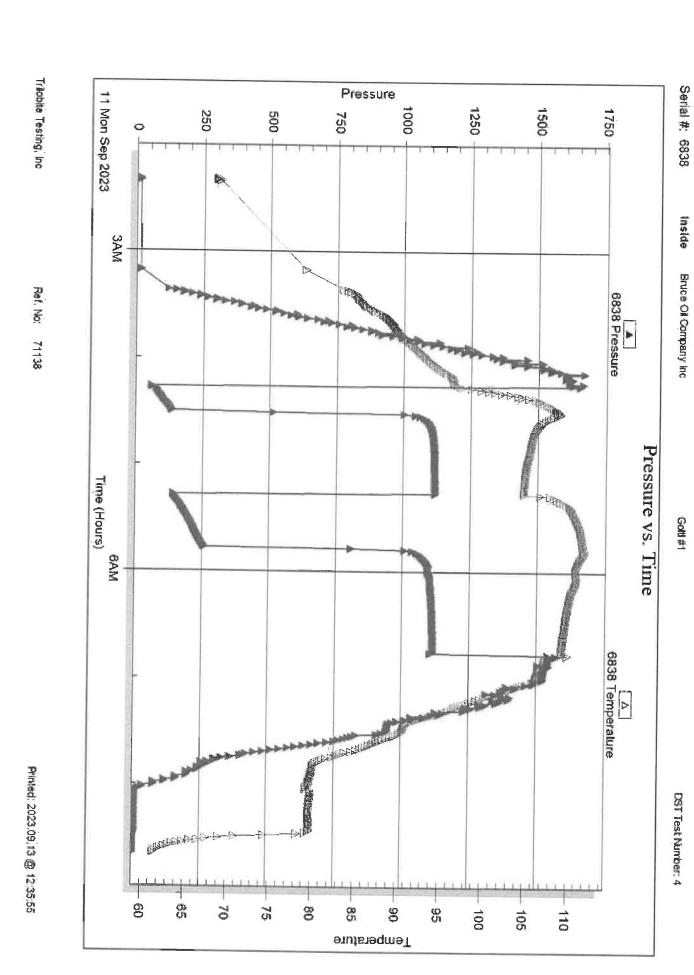
Recovery Comments: 5#LCM

RW=.151@62F

Trilobite Testing, Inc.

Ref. No: 71138







Prepared For: Bruce Oil Company Inc

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Mike Engelbrecht

## Goltl#1

## 5-6s-21w Graham KS

Start Date: 2023.09.11 @ 21:21:00 End Date: 2023.09.12 @ 04:19:27 Job Ticket #: 71139 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



Bruce Oil Company Inc

1704 Limestone Rd McPherson KS 67460+6500 Goltl #1

Job Ticket: 71139

**DST#:5** 

ATTN: Mike Engelbrecht

Test Start: 2023.09.11 @ 21:21:00

5-6s-21w Graham KS

GENERAL INFORMATION:

Formation:

LKC H-J

Deviated:

No Whipstock: ft (KB)

Time Tool Opened: 23:33:52 Time Test Ended: 04:19:27

Interval:

3560.00 ft (KB) To 3623.00 ft (KB) (TVD)

Total Depth: 3623.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Poor

Conventional Bottom Hole (Reset) Test Type:

Tester:

Spencer J Staab Unit No: 84

Reference Elevations:

2260.00 ft (KB)

2252.00 ft (CF)

KB to GR/CF:

8.00 ft

psig

Serial #: 8875 Press@RunDepth:

Outside

35.93 psig @

3563.00 ft (KB)

2023.09.12

Capacity: Last Calib.:

Start Date: Start Time:

2023.09.11 21:21:01

End Date: End Time:

04:19:26

Time On Btm:

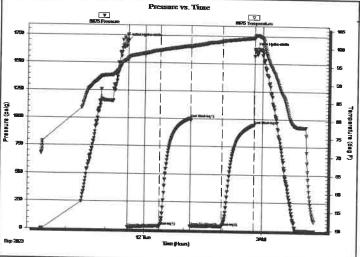
2023.09.12 2023.09.11 @ 23:33:47

Time Off Btm:

2023.09.12 @ 02:48:22

TEST COMMENT: 45-IF-Surface to 2"

45-ISI-No Return 45-FF-Surface to 1" 45-FSI-No Return



	PRESSURE SUMMARY								
		Ρ	KE SUMMARY						
	Time	Pressure	Temp	Annotation					
	(Min.)	(psig)	(deg F)						
	0	1700.22	97.21	Initial Hydro-static					
	1	18.20	96.47	Open To Flow (1)					
	49	32.00	99.28	Shut-In(1)					
ا و	96	1003.54	100.56	End Shut-In(1)					
Temperature (deg F)	97	32.45	100.14	Open To Flow (2)					
2	145	35.93	101.93	Shut-In(2)					
6	194	948.57	102.87	End Shut-In(2)					
٦	195	1634.26	103.22	Final Hydro-static					
ĺ									
1									

#### Recovery

Length (ft)	Description	Volume (bbl)	
40.00	Mud 100%M	0.29	
	-		
Recovery from n	nultiple tests		

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc

Ref. No: 71139



Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd

Goltl #1 McPherson KS 67460+6500

Job Ticket: 71139

DST#: 5

ATTN: Mike Engelbrecht

Test Start: 2023.09.11 @ 21:21:00

#### **GENERAL INFORMATION:**

Formation:

LKC H-J

Deviated:

No Whipstock: ft (KB)

Time Tool Opened: 23:33:52 Time Test Ended: 04:19:27

Test Type: Conventional Bottom Hole (Reset) Tester:

Spencer J Staab

Unit No:

Reference Elevations:

2260.00 ft (KB)

psig

2252.00 ft (CF)

KB to GR/CF:

8.00 ft

Interval:

3560.00 ft (KB) To 3623.00 ft (KB) (TVD)

Total Depth: Hole Diameter: 3623,00 ft (KB) (TVD) 7.88 inches Hole Condition: Poor

Serial #: 6838 Press@RunDepth:

Inside

psig @ 2023.09.11

3563.00 ft (KB) End Date:

2023.09.12

Capacity: Last Calib.:

Start Date: Start Time:

End Time:

04:19:26

Time On Btm:

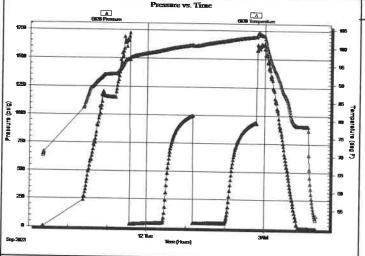
2023.09.12

21:21:01

Time Off Btm:

TEST COMMENT: 45-IF-Surface to 2"

45-ISI-No Return 45-FF-Surface to 1" 45-FSI-No Return



	PRESSURE SUMMARY								
	Time	Pressure	Temp	Annotation					
	(Min.)	(psig)	(deg F)						
				1					
				1					
او									
				i i					
Tamparation (dec 2)									
1									
-									
-				1					
			1						
1									

## Recovery

Length (ft)	Description	Volume (bbl)	
40.00	Mud 100%M	0.29	
Recovery from m	nultiple tests		

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (MMcf/d)

Trilobite Testing, Inc.

Ref. No: 71139



**TOOL DIAGRAM** 

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd

Goltl #1

McPherson KS 67460+6500

ATTN: Mike Engelbrecht

Job Ticket: 71139 Test Start: 2023.09.11 @ 21:21:00

DST#: 5

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3514.00 ft Diameter:

ft Diameter:

3.82 inches Volume: 2.75 inches Volume:

49.81 bbl - bbl Tool Weight:

2500.00 daN

Drill Collar:

Length:

30.00 ft Diameter:

2.25 inches Volume: 0.15 bbl

Weight set on Packer: 25000.00 daN Weight to Pull Loose: 58000.00 daN

Drill Pipe Above KB: Depth to Top Packer:

16.00 ft 3560.00 ft Total Volume:

**Tool Chased** 

ft

Depth to Bottom Packer: Interval between Packers:

ft 63.00 ft String Weight: Initial 53000.00 daN

Final 53000.00 daN

Tool Length: Number of Packers: 95.00 ft

Diameter: 2

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3529.00		
Shut In Tool	5.00			3534.00		
Hydraulic tool	5.00			3539.00		
Jars	5.00			3544.00		
Gap Sub	4.00			3548.00		
Safety Joint	3.00			3551.00		
Packer	5.00			3556.00	32.00	Pottom Of Tax David
Packer	4.00			3560.00	32.00	Bottom Of Top Packer
Stubb	1.00			3561.00		
Perforations	1.00			3562,00		
Change Over Sub	1.00			3563,00		
Recorder	0.00	6838	Inside	3563.00		
Recorder	0.00	8875	Outside	3563.00		
Drill Pipe	32.00			3595.00		
Change Over Sub	1.00			3596.00		
Perforations	24.00			3620.00		
Bullnose	3.00			3623.00	63.00	Bottom Packers & Anchor
Total Tool Length:	95.00			1123.00	03.00	DOTTOTH FACKERS & ANCHOR



**FLUID SUMMARY** 

Bruce Oil Company Inc

5-6s-21w Graham KS

1704 Limestone Rd McPherson KS 67460+6500

Golti #1

Job Ticket: 71139

DST#: 5

ATTN: Mike Engelbrecht

Test Start: 2023.09.11 @ 21:21:00

Oil API:

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: Viscosity:

9.00 lb/gal 58.00 sec/qt

Water Loss: Resistivity:

6.79 in<sup>3</sup> ohm.m

Salinity: Filter Cake: 1300.00 ppm

inches

Cushion Type:

Cushion Length:

ft

Water Salinity: ldd

deg APi ppm

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

psig

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl	
40.00	Mud 100%M	0.289	

Total Length:

40.00 ft

Total Volume:

0.289 bbl

Num Fluid Samples: 0

Num Gas Bombs: Laboratory Location:

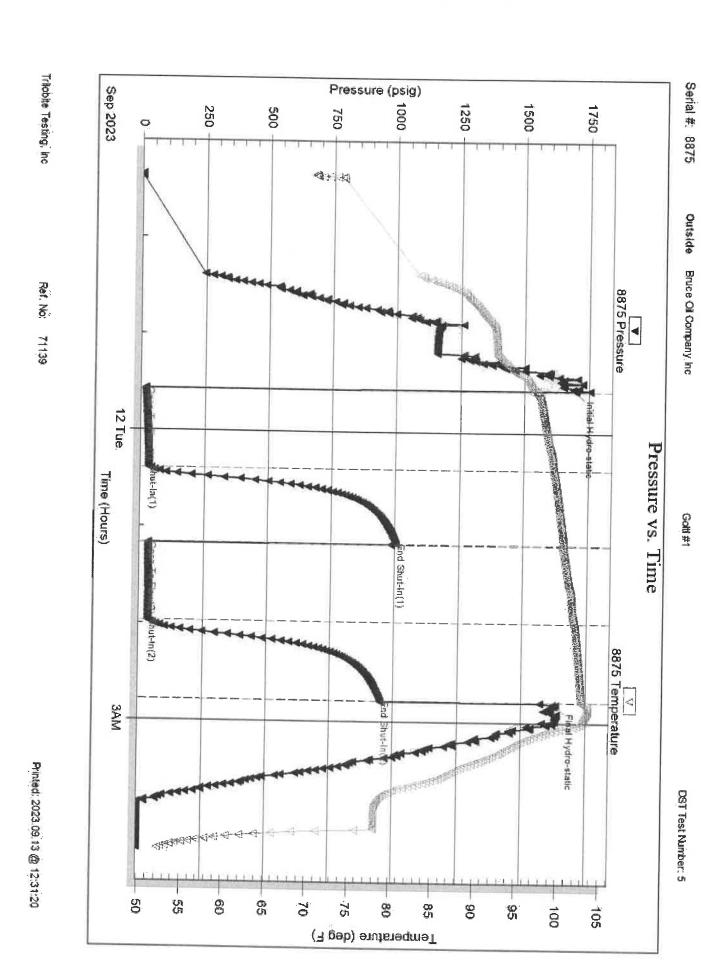
Serial #:

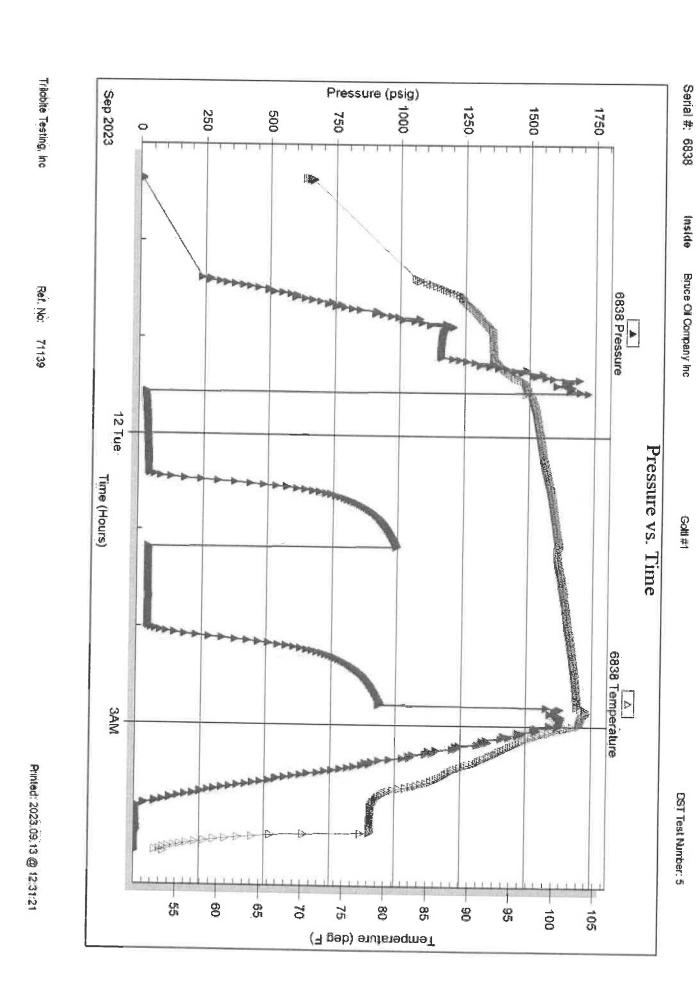
Laboratory Name:

Recovery Comments: 6#LCM

Trilobite Testing, Inc.

Ref. No: 71139







## **Test Ticket**

NO.

71135

Well Name & No. 9211 #1					
Company Bruce Oil Com	220	_ Test No		_ Date <u>09/08</u>	2023
Address 1704 Aimestone	1	Elevation	2260	_ KB 22.52	GL_
and and	01	Kerson	Tes	67460+6	500
-		_ Rig	scovery	#4	
	Rge. 2/w	Co. Slea	ham 0	State	1
Interval Tested 3254' - 3284'	Zone Tested	peka			
Anchor Length 30	Drill Pipe Run	197'		Mud Wt 8, 7	
Top Packer Depth 3249	Drill Collars Run	_		Vis _ 69	
Bottom Packer Depth 3254	Wt. Pipe Run			WL 6.8	
Total Depth 3284	Chlorides 800	) ps		LCM_2#	
	mins, Buil	t to a	23.25		
JSJ- Very Weak Surface	e, Died a				
77-73043 7 mins	Bult to 35	. 1			
750-Ner Keturn					
Rec 266 Feet of Water		%gas	%oil	100 %water	%mud
Rec /do Feet of SOCMW		%gas	5 %oil	65 %water	30 %mud
Rec 90' Feet of OCWM		%gas	/O %oil	15 %water 7	75 %mud
Rec Feet of Heavy Oil		%gas	100 %oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of	TANK TO THE PARTY OF THE PARTY	%gas	%oil	%water	%mud
Rec Total	_ Gravity < 19° AF	18W . 081	@ 65 FC	Chlorides 110, 0	100 ppm
Initial Hydrostatic	1 4000			Shale Packer	
Initial Flow49_ to13	Jars 300		C Ruined R	Packer	
Initial Shut-In	_ Circ Sub		_ D Hotel _	h ar an	
Final Flow <u>Q6</u> to <u>239</u>	☐ Hourly Standby			Successful	
Final Shut-In	Mileage 138 R7	69mi 120.75		bility	
Final Hydrostatic <u>/536</u>	_ ☐ Sampler23mi 4	0.05		nple	
T- On Location 19:23	_		□ Oversize	ed Hole	
Initial Flow 15 T-Started 21:16	□ Shale Packer			al 0	
Initial Shut-In 45 T-Open 23:47				2261	
Final Flow 30 T-Pulled 2:17 09/04				aded@	
Final Shut-In 60 T-Out 64:41	□ Day Standby				
Comments					
	100			2 4	
Approved By	Our Re	presentative	11/7	toal I	ranks!
Trilobite Testing Inc. shall not be liable for damage of		/ /	ope for whom a	a test is made, or fo	or any loss
suffered or sustained directly or indirectly through t	the use of its equipment or	its statements	or opinion con	cerning the results	of any test.
Tools lost or damaged in the hole shall be paid for a	it cost by the party for who	m the test is ma	ide. 785-	259-1456	

# RILOBITE STING INC. 1515 Commerce Parkway

## **Test Ticket**

NO.

71136

Veil Name & No. Soltle #1	es e	est No2	60' KE	2252	GL
Julipariy 1	DI Met	herson	71 67	7460+65	.0-
Address 1704 Simestone	echt	Rig Dig	overy 74	1/	
Co. Rep / Geo		Trako	m	State	
Location, Sec.	Zone Tested 7000		LAC	<u>a</u>	
nterval Tested 3405 - 3466	Zone Tested 7000	1000	Mud	wt. 8.9	
anchor Length 61	Drill Collars Run3	0'	Vis .		
Top Packer Depth 3400	Wt. Pipe Run		WL.	6.8	
2405	Chlorides /OOC	)ppi	n System LCN	2#	1-11
Total Depth 3466.	Blad De Zia	25" bloc	r, Sur	ace tes	.5_
Total Depth 3466' Blow Description 17-Slid 5';	00				
135					
The Mer Strong					
Rec 70 Feet of Mud	word spots	%gas	%oil	%water /	
Rec Feet of	/	%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of	282 101	%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Total 70' BHT 102	Gravity API	RW	@*F Ch	orides	ppm
Initial Hydrostatic			_ D Ruined Sh	ale Packer	
Initial Flow36to42	X Jars 300		C Ruined Par	cker	
Initial Shut-In	Circ Sub		🗆 Hotel		
Final Flow 47 to 51	☐ Hourly Standby		_ EM Tool S	iccessful17	5
Final Shut-In	Mileage 46.87	80.50	_	ty	
Final Hydrostatic 13 73			Gas Samp	e	
T- On Location 21:3	1_ □ Straddle		_ ☐ Oversized	Hole	
Initial Flow 4.5 T-Started 22:16	D Shale Packer			-175	
Initial Shut-In 45 T-Open 00:08	D Extra Packer		D Total	2005.50	
Final Flow 45 T-Pulled 03: 08	D Extra Recorder		_	d@	
Final Shut-In 45 T-Out	Pay Standby		_ D MP/DST D	sc't	
Comments mileage from A	C house				
Approved By	Our Ron	resentative	PAIR	-/-	
Trilobite Testing Inc. shall not be liable for damage suffered or sustained, directly or indirectly, throug Tools lost or damaged in the hole shall be paid to	Ou nepi	200HERRING	1//1/	arr	



## RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## **Test Ticket**

NO. 71137

7 10		001		1113/	
Well Name & No. Soltl #	1	<i>702</i>	2	1 (	
Company Bruce Oil	Company LLC	Test No	3	Date 09/10	2023
Address 1704 Limestone	10 1 1 1 1 1	Elevation	260		GL
mn n	gelbrecht			460 - 650	<u>20</u>
Location: Sec		0.71	geovery	41	,
Interval Tested 3475' - 3500		_Co.S/ra	ham	State <u> </u>	1
Anchor Length 25	Zone Tested Z				
Top Packer Depth 3470	Drill Pipe Run			ud Wt. <u>8.9</u>	
Bottom Packer Depth 3475	Drill Collars Run			70	
Total Depth 3500	Wt. Pipe Run_			6.4	
Blow Description 27- Surface to	Chlorides 70	pp pp	m System LC	M_5#	
JSJ-No Return	o.o, allea	lack to C	1.25		
77 Weak Surface;	Died @ 20 n	•			
75)- No Return	00 00 A	nus			
Rec 5' Feet of Mud		%gas	%oil	%water /	20%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec TotalBHT _/	(O/ Gravity	API RW	@ •F Ch	lorides	ppm
1///	• •			ale Packer	
initial Flow 17 to 19	X Jars300		_ □ Ruined Pa	cker	
nitial Shut-In			_ □ Hotel		
Final Flow19	☐ Hourly Standby_		_ KEM Tool Si	uccessful175	5
Final Shut-In 43	X Mileage 46/2	7 80.50		ty	
Final Hydrostatic	☐ Sampler			le	
T- On Location //	:46 🗆 Straddle		_ □ Oversized	Hole	
nitial Flow 45 T-Started 1:59	☐ Shale Packer		□ Sub Total	-175	
Initial Shut-In 45 T-Open 13:31			□ Total	2005.50	
115			☐ Tool Loaded@		
Final Shut-In_45 T-Out □ Day Standby			_ D MP/DST D	isc't	
Comments					
			00 0	A	
Approved By	Our	Representative	Aton	6	
11.		/ /	111		

Trilobite Testing Inc. shall not be liable for damage of any kind of 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.



## **Test Ticket**

NO. 71138

Well Name & No	0-91-8+D HI				71100	)
Company B	THE OF B	2.0	Test No.	4/	Date 09/11	1-
Address 170	The COVV	ysany LLC	Elevation		_ KB_22.52	K923
Co. Rep / Geo_	M-1	The me	Pherson	1/	7460 + 650	GL
Location: Sec.	5 mge	brecht	^		44	30
	Twp 65	Rge. 2/w	_ Co. Tro	ham		/
Anchor Length	3498 - 3530	Zone Tested	140	AY	State	
		Drill Pipe Run	3448	W-T		
Top Packer Depth		Drill Collars Run			ud Wt. 8.9	
Bottom Packer De		— Wt. Pipe Run_	_	Vi	111	
Total Depth 35.	14	Chlorides / C	000	W	- (	
Blow Description	17-13013 7	mins Buil	£ 10 24	om System LC	м <u>5#</u>	
777 000	ak Surface	to 0.25"				
77-1-730	73 8 mins , 7	Built to 30	? "			
	face to 0,25"					
Rec 300 U	Feet of Water		%gas	%oil /	OO %water	0/
Rec 240	Feet of MCW		%gas	%oil 5	55 %water /	%mud
Rec			%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%qas	%oil	%water	%mud
?ec			%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec Total54	0' BHT 109'	Gravity				
nitial Hydrostatic	1673				ale Packer	
nitial Flow	43 to 132	Jars 300			cker	
nitial Shut-In	1124					
Final Flow	30 to 267					
inal Shut-In	1119	Mileage 46/7			ty	
inal Hydrostatic		□ Sampler				
•		01:43 Straddle				
nitial Flow	T-Started_ <i>02:/9</i>	☐ Shale Packer				
	T-Open_ <i>04:15</i>	☐ Extra Packer			2180.50	
	T-Pulled 06:45	Extra Recorder			d@	
Final Shut-In_	T-Out	Day Standby		_ O MP/DST D	isc't	
	leage from &	FC House				
	10			-		
				DA D		
Approved By		Our F	Representative	1/11	no (	
			1	////	11.	

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## RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## **Test Ticket**

NO. 71139

			1000			11107	
Well Name & No	Doll -	#1			_	,	,
Company Z	Bruco Oil	Company o	Per			Date 09 11	2023
Address 170	14 Limesto	ne To	an	Elevation		KB 0052	GL_
Co. Rep / Geo	and 11	Danel+	716	Thers		67460+	500
Location: Sec	5_ Twp 6	Rge2	1.	01	gcovery	#4	
	3560'- 3623'		4.1	o. Tral	home c	State	1
Anchor Length			Tested 24	- 4			
Top Packer Depth			ipe Run <u>35/</u>		M	ud Wt. <u>8,9</u>	
Bottom Packer De			ollars Run3	0	Vis	_58	
Total Depth			pe Run			6.8	
	-D7-Surlace	tre 2" Chlorie	des	)pp	m System LC	м_6#	
11 C 11 W	Redund	200 8					
77-Sur	Dace to 1"						
75J-100	Return						
Rec	_ Feet of _ Mue	J		%gas	%oil	%water /	19000 mind
Rec	_ Feet of			%gas	%oil	%water	%mud
Rec	Feet of			%gas	%oil	%water	
Rec	_ Feet of			%gas	%oil	%water	
Rec	Feet of			%gas	%oil	%water	%mud
Rec	Feet of			%gas	%oil	%water	%mud
Rec	Feet of			%qas	%oil	%water	%mud
Rec Total	<u>ю'</u> внт <u>/(</u>	Gravity	API F	W	@*F Ch	lorides	ppm
Initial Hydrostatic_	1766	X Test	1800		_ D Ruined Sh	ale Packer	
Initial Flow	18 to 32	X Jars_	300		_   Ruined Pa	cker	
Initial Shut-In	1003	Circ Su	ub		_ 🛘 Hotel		
	32 to 35	🗆 Hourly	Standby		_ X EM Tool S	uccessful175	
Final Shut-In	948	X Mileag	e 4672	80.50	_	ity	
Final Hydrostatic_	/634		120.75	+ 40.25		le	
1282 PG	T- On Location 2C	38 □ Stradd	lle	****		Hole	
	9 45 - Started 21:2		Packer		_ Sub Total		
	<b>0</b> 45-Open <u>23:34</u>		Packer			2166.50	(N:07)
Final Flow			Tool Loaded Of 12 @ 20:00				
Final Shut-In	45 T-Out	1/0 1/	tandby		_ D MP/DST D	Disc't	
Comments M	leage from	He How	se				
	00						
					MAG		
Approved By			Our Repr	esentative _	14 × 100		

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