KOLAR Document ID: 1456787

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			outh Line of Section	
City: S	State: Zip	:+		Feet from	East / W	est Line of Section	
Contact Person:			Footages Calculated	from Nearest Outs	side Section Cor	ner:	
Phone: ()			□ NE 〔	□NW □SE	\square sw		
CONTRACTOR: License #		GPS Location: Lat:		, Long:			
Name:			(e.g. xx.xxxxx)	¬	(e.gxxx.xxxxx)		
Wellsite Geologist:			Datum: NAD27		_		
Purchaser:			County:				
Designate Type of Completion:			Lease Name:		Well	#:	
New Well Re	e-Entry	Workover	Field Name:				
	SWD		Producing Formation	1:			
☐ Gas ☐ DH	☐ EOR		Elevation: Ground:_	ŀ	Kelly Bushing:		
OG	GSW		Total Vertical Depth:	Pluḍ	g Back Total Dep	th:	
CM (Coal Bed Methane)	_		Amount of Surface P	ipe Set and Cemer	nted at:	Feet	
Cathodic Other (Cor	re, Expl., etc.):		Multiple Stage Cementing Collar Used? Yes No				
If Workover/Re-entry: Old Well In	nfo as follows:		If yes, show depth se	et:		Feet	
Operator:			If Alternate II comple	tion, cement circul	ated from:		
Well Name:			feet depth to:	W.	/	sx cmt.	
Original Comp. Date:	Original Tot	tal Depth:					
☐ Deepening ☐ Re-perf. ☐ Plug Back ☐ Liner	Conv. to GS		Drilling Fluid Manag	•	t)		
Commingled	Pormit #:		Chloride content:	ppm	Fluid volume: _	bbls	
Dual Completion			Dewatering method u	used:			
SWD			Location of fluid disp	osal if hauled offsit	te:		
☐ EOR							
☐ GSW			Operator Name:				
			Lease Name:				
Spud Date or Date Re	ached TD	Completion Date or	Quarter Sec.	Twp	S. R	East West	
Recompletion Date		Recompletion Date	County:	Pern	nit #:		

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: 1456787

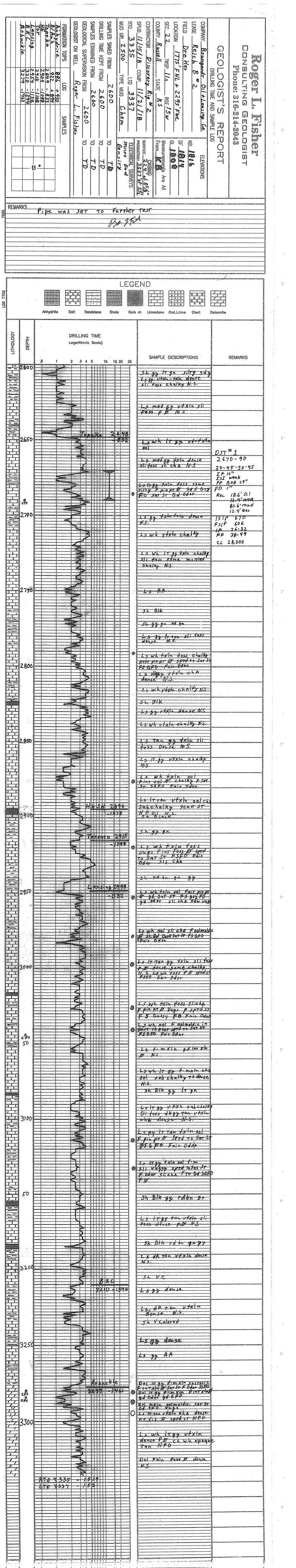
Page Two

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	Brungardt Oil and Leasing Inc.			
Well Name	REICH B 2			
Doc ID	1456787			

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	224	80/20 poz		2% Gel- 3%cc
Production	7.875	5.5	17	3336	Common	155	10% Salt- 5% Gel



L CEMENTING, INC. Jawlio YTIJAUD

Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665

Cell 785-324-1041 Phone 785-483-2025

Signature Discount X6T Mileage 2 5 Pumptrk Charge Latch Down Float Shoe AFU Inserts Baskets Centralizer Bods shub TLOAT EQUIPMENT Mileage BuilbrieH pues DAY OF PORT CONIBIL CFL-117 or CD110 CAF 38 Baskets Mud CLR 48 Centralizers Kol-Seal Mouse Hole **Beaworl** Plot Hole Wes нешяце: alluH 108 SERVICES & REMARKS Calcium DHVB Bulktrk Jeo. Bulkthk Driver Poz. Mix Helper Pumptrk 6,700 Common TNEMBIUDS Displace Meas Line Cement Amount Ordered /50 Shoe Joint Coment Left in Cag. The above was done to satisfaction and supervision of owner agent Depth 1001 eteis CIP Depth azis Eq.L 1901S Depth Ced. My and + O. ezis ejoH Charge and helper to assist owner or contractor to do work as listed. cementer Type Job You are hereby requested to rent cementing equipment and furnish To Quality Oilwell Cementing, Inc. Confractor Owner Well No. 3 98694 Location. MARR etisO Haini On Location State (juno) Agnige 'dw1 2002

Total Charge

8901

LWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107 **JAWJIO YTIJAUD**

HainiA

1158

On Location

.oN

aleis

Home Office P.O. Box 32 Russell, KS 67665

Range

Twp.

Cell 785-324-1041 Phone 785-483-2025

Total Charge Signature Discount XST Mileage Pumptrk Charge Latch Down Float Shoe AFU Inserts 818A8ISB Centralizer Guide Shoe FLOAT EQUIPMENT Mileage pnilbnsH pues D/V or Port Collar CFL-117 or CD110 CAF 38 Mud CLR 48 Centralizers Kol-Seal Flowseal aloH tsH MES Remarks: SHUH 10B SERVICES & REMARKS Mulcium BUKER Gel Bulktrk ON 17 DITIVER Poz. Mix Helper Pumphik Cementer Common EQUIPMENT Displace Anil seeM Cement Amount Ordered (J.co.) thiol gons Cement Left in Csg. The above was done to satisfaction and supervision of owner agent or contractor. перти 91818 CITY Tbg. Size Depth 19945 Depth Csg. G.T exis eloH cementer and helper to assist owner or contractor to do work as listed. dot eqyT You are hereby requested to rent cementing equipment and furnish To Quality Oilwell Cementing, Inc. Contractor Owner Well No. 08897 5 81-11-81

GUALITY OILWELL CEMENTING, INC.

Home Office P.O. Box 32 Russell, KS 67665

Cell 785-324-1041 Phone 785-483-2025

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Prepared For: Brungardt Oil and Leasing Inc

PO Box 871

Russell KS 67665+1731

ATTN: Roger Fisher

Reich "B" #2

22-11s-15w Russell,KS

Start Date: 2018.11.19 @ 08:58:00 End Date: 2018.11.19 @ 14:21:30 Job Ticket #: 53770 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



Brungardt Oil and Leasing Inc

22-11s-15w Russell,KS

PO Box 871

Russell KS 67665+1731

Reich "B" #2Job Ticket: 53770

DST#: 1

ATTN: Roger Fisher

Test Start: 2018.11.19 @ 08:58:00

GENERAL INFORMATION:

Formation: Topeka

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:20:00
Time Test Ended: 14:21:30

2670.00 ft (KB) To 2690.00 ft (KB) (TVD)

Total Depth: 2690.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Benny Mulligan 66

Unit No: 66

Reference Elevations:

Tester:

1816.00 ft (KB)

1811.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772 Inside

Interval:

Press@RunDepth: 49.34 psig @ 2671.00 ft (KB)

Start Date: 2018.11.19

End Date: 2018.11.19

Capacity: Last Calib.: 8000.00 psig 2018.11.19

Start Time: 08:58:01 End Time:

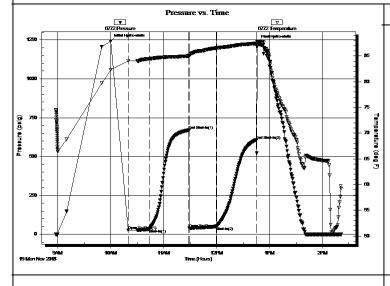
14:21:30

Time On Btm: 2018.11.19 @ 10:00:00 Time Off Btm: 2018.11.19 @ 12:46:30

TEST COMMENT: I.F-30- Built to 10 "

I.S.I.-45- w eak blow back F.F.-30-BOB 29 mins total build 12"

F.S.I.-45- 1" blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1242.01	82.30	Initial Hydro-static
20	26.50	84.05	Open To Flow (1)
44	32.74	84.46	Shut-In(1)
89	670.00	84.99	End Shut-In(1)
90	38.59	85.08	Open To Flow (2)
120	49.34	86.57	Shut-In(2)
166	606.77	87.46	End Shut-In(2)
167	1236.03	87.86	Final Hydro-static

Recovery

Description	Volume (bbl)
GOCM 5%G 15%O 80%M	0.44
GOCWM 50%M 20%w 15%o 15%g	0.44
GIP 180'	0.00
	GOCM 5%G 15%O 80%M GOCWM 50%M 20%w 15%o 15%g

Gas Rates

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

Trilobite Testing, Inc Ref. No: 53770 Printed: 2018.11.21 @ 10:29:31



Brungardt Oil and Leasing Inc

22-11s-15w Russell, KS

PO Box 871

Russell KS 67665+1731

ATTN: Roger Fisher

Reich "B" #2

Job Ticket: 53770 DST#: 1

Test Start: 2018.11.19 @ 08:58:00

GENERAL INFORMATION:

Formation: Topeka

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 10:20:00 Tester: Benny Mulligan

Time Test Ended: 14:21:30 Unit No:

Interval: 2670.00 ft (KB) To 2690.00 ft (KB) (TVD) Reference Elevations: 1816.00 ft (KB)

Total Depth: 2690.00 ft (KB) (TVD) 1811.00 ft (CF)

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

Serial #: 6769 Outside

Press@RunDepth: 2671.00 ft (KB) Capacity: 8000.00 psig psig @

Start Date: 2018.11.19 End Date: 2018.11.19 Last Calib.: 2018.11.19

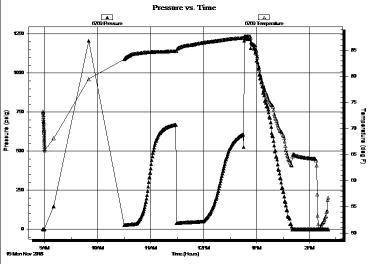
Start Time: 08:58:01 End Time: Time On Btm: 14:21:30

Time Off Btm:

TEST COMMENT: I.F-30- Built to 10 "

I.S.I.-45- w eak blow back F.F.-30-BOB 29 mins total build 12"

F.S.I.-45- 1" blow back



Ī	Time (Min.)	Pressure	Temp (deg F)	Annotation
	(101111.)	(psig)	(deg r)	
i				
,				

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 5%G 15%O 80%M	0.44
62.00	GOCWM 50%M 20%w 15%o 15%g	0.44
0.00	GIP 180'	0.00

Gas Rates

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

Ref. No: 53770 Printed: 2018.11.21 @ 10:29:31 Trilobite Testing, Inc.



TOOL DIAGRAM

Brungardt Oil and Leasing Inc

ATTN: Roger Fisher

22-11s-15w Russell, KS

PO Box 871

Russell KS 67665+1731

Reich "B" #2

Job Ticket: 53770 **DST#:1**

Test Start: 2018.11.19 @ 08:58:00

String Weight: Initial 48000.00 lb

Final 50000.00 lb

Tool Information

Drill Pipe: Length: 2440.00 ft Diameter: 3.80 inches Volume: 34.23 bbl Tool Weight: 2000.00 lb 2.70 inches Volume: 1.54 bbl Heavy Wt. Pipe: Length: 218.00 ft Diameter: Weight set on Packer: 25000.00 lb Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight to Pull Loose: 52000.00 lb Total Volume: 35.77 bbl Tool Chased 0.00 ft

Drill Pipe Above KB: 8.00 ft
Depth to Top Packer: 2670.00 ft

Depth to Bottom Packer: ft
Interval between Packers: 20.00 ft
Tool Length: 40.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2651.00		
Shut In Tool	5.00			2656.00		
Hydraulic tool	5.00			2661.00		
Packer	5.00			2666.00	20.00	Bottom Of Top Packer
Packer	4.00			2670.00		
Stubb	1.00			2671.00		
Recorder	0.00	6772	Inside	2671.00		
Recorder	0.00	6769	Outside	2671.00		
Perforations	16.00			2687.00		
Bullnose	3.00			2690.00	20.00	Bottom Packers & Anchor

Total Tool Length: 40.00

Trilobite Testing, Inc Ref. No: 53770 Printed: 2018.11.21 @ 10:29:32



FLUID SUMMARY

DST#: 1

Brungardt Oil and Leasing Inc

22-11s-15w Russell, KS

PO Box 871

Reich "B" #2 Russell KS 67665+1731 Job Ticket: 53770

ATTN: Roger Fisher

Test Start: 2018.11.19 @ 08:58:00

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: 28000 ppm

Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 6.79 in³ Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

52000.00 ppm Salinity: Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl	
62.00	GOCM 5%G 15%O 80%M	0.439	
62.00	GOCWM 50%M 20%w 15%o 15%g	0.439	
0.00	GIP 180'	0.000	

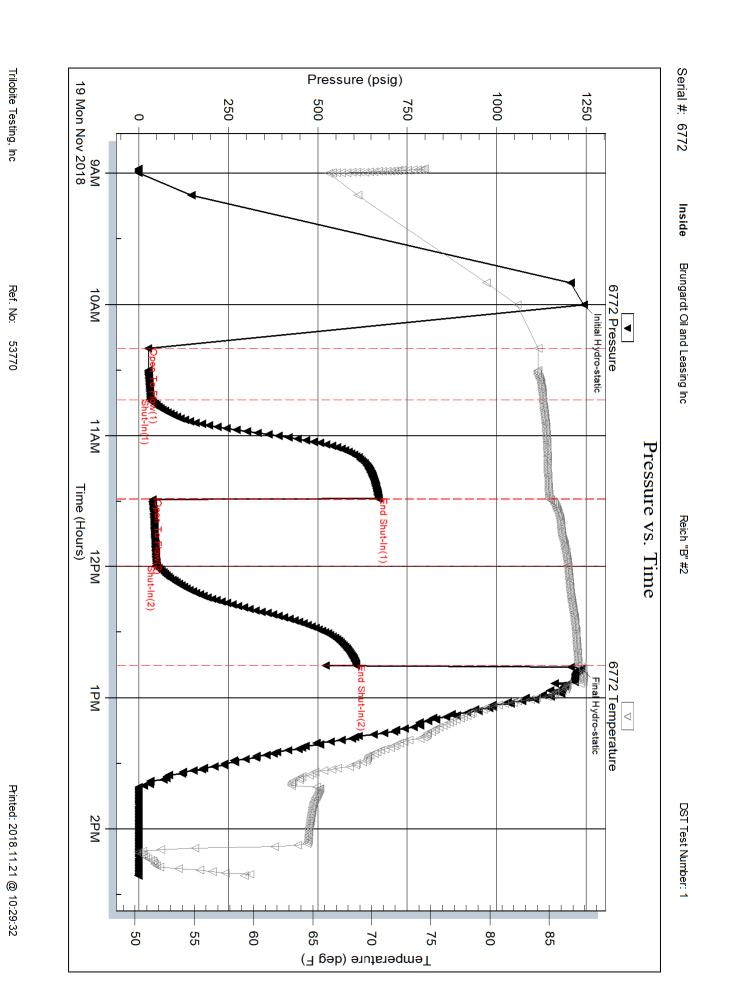
Total Length: 124.00 ft Total Volume: 0.878 bbl

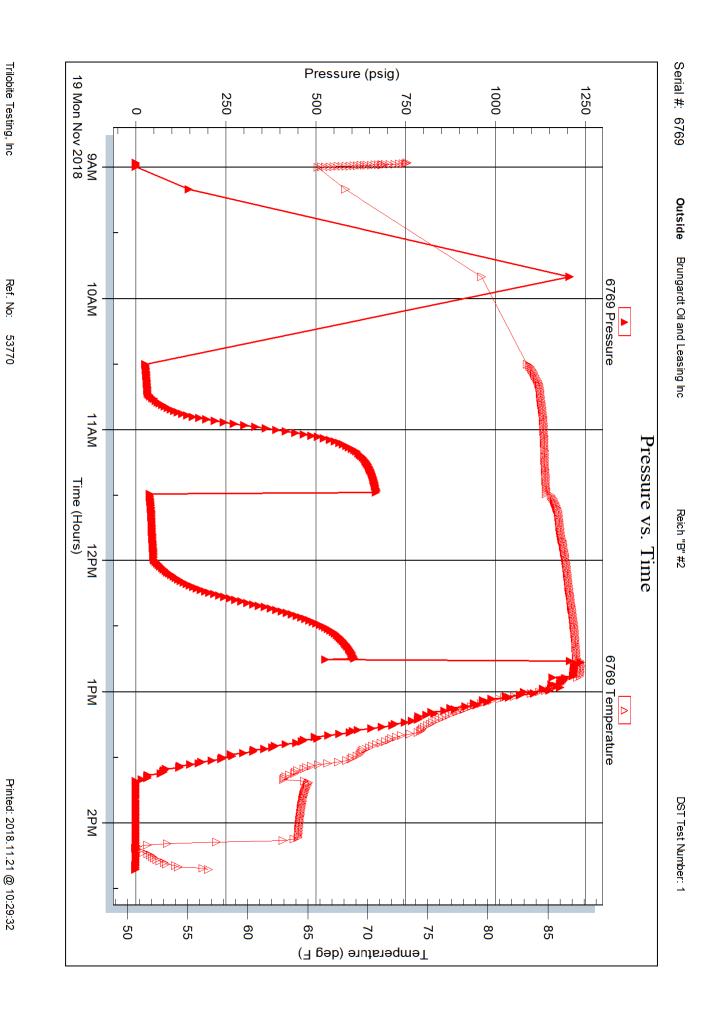
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 0.31@56.5

Printed: 2018.11.21 @ 10:29:32 Trilobite Testing, Inc Ref. No: 53770







RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

No. 53770

4/10 (15)								
Well Name & No. Reich "B" #2		Test No.		Date _	11-19-7	810.		
Company Brungard+ Oil and Lea	asing Inc	Elevation	1816	KB_	181	2	GL	
Address 213w 7th st POBox 871								
Location: Sec. 22 Twp. 1/s					State	KS		
Interval Tested 2670-2690					To be			
Anchor Length 20'	Drill Pipe Run	2440'		Mud Wt.	8,7			
Top Packer Depth 2665				Vis	,			
Bottom Packer Depth 2670		218'		WL	_			
Total Depth 2690		200			2#			
Blow Description I.f built to 10			ectatic Exceptions					
ISI - West blow								
F.F BOB. 29 min	5 bnitto 12'	**	6					
E.I @1" blow bac	K							
Rec 62 Feet of 6.0, m		5 %gas	/5 %oil		%water	80	%mu	
Rec 62 Feet of 6.0. W. M.		/5%gas	15 %oil		%water	50	%mud	
RecO Feet ofG.I.P180'		%gas	%oil		%water		%mu	
RecFeet of		%gas	%oil		%water		%mu	
RecFeet of		%gas	%oil		%water		%mu	
Rec Total 124' BHT 87.9	Gravity	API RW 0.31	@ 56.5°	F Chlorid	es 28	,000	ppr	
(A) Initial Hydrostatic / 2 4Z				_ocation _		•		
(B) First Initial Flow 26	☐ Jars		T-Star	ted	8:5	8		
(C) First Final Flow 37			T-Ope	n	10:1	5		
(D) Initial Shut-In 670	☐ Circ Sub		T-Pulle	ed				
(E) Second Initial Flow	Hourly Standby		T-Out		2:2:	,	,	
(F) Second Final Flow9	Mileage 1326	6 RT XZ		nents <u>Lo</u>		too	>/	
(G) Final Shut-In606	☐ Sampler		//	1-21-	2010		2	
(H) Final Hydrostatic 1234	☐ Straddle			inod Chal	lo Pagicar			
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Initial Shut-In 45		□ Extra Recorder		Sub Total				
Final Flow	☐ Day Standby			otal				
Final Shut-In 45	☐ Accessibility _							
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