KOLAR Document ID: 1426197

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:				Sec Twp	S. R	_ East _ West
Address 2:				Feet from	North / Sc	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 Ceme	enting Collar Used?	? Yes N	lo
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 I II Approved by: Date:					

KOLAR Document ID: 1426197

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	MCREYNOLDS 1		
Doc ID	1426197		

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	728	60/40	350	3%CC
Production	7.875	5.5	15.5	3028	60/40	200	10%salt

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

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

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

No. 784

			,		·				
Date 2-5-13 Sec	Twp.	Range //	05	borne	KState KS	On Locat	tion	Finish えっここ	
	i 0 -		Location	on 28 1 4	1854.	3W to 182	Rd,	11 N, 21	E,2N
Lease Mickey	nolds	Well No. /		Owner & v		W.SN.	<u> کسٰ</u>	V48, E	15
Contractor Royal 1		19. k		To Quality C	oilwell Cementing, ebv requested to r	rent cementing equ	ا uipment	and furnish	
Type Job Surface				l		owner or contract	tor to do	work as list	ed.
Hole Size 1214 11	T.D.	<u>7281</u>		Charge 7	xue of	11 Comp	anu	}	
Csg. 83/8"	Depth	728'		Street			-		
Tbg. Size	Depth			City		State			-
Tool	Depth			1		on and supervision	of owner		
Cement Left in Csg.	Shoe			Cement Am	ount Ordered 💍	50 W/40	9%(C 3% G	<u>.u.</u>
Meas Line	Displa	ce 45 1/4	BUS		3				
	JIPMENT			Common	(10)				-
Pumptrk /7 No. Cementer Helper	Doug			Poz. Mix	140				
Bulktrk 13 No. Driver T	ack '			Gel.	7				
Bulktrk D.W. No. Driver Driver	(ic)			Calcium /	حي	· . ·			
JOB SERVICE	ES & REM			Hulls					
Remarks: Cement	del	Cicabo	ę	Salt					
Rat Hole				Flowseal					
Mouse Hole				Kol-Seal					
Centralizers				Mud CLR 4	8		·		
Baskets				CFL-117 or	CD110 CAF 38				
D/V or Port Collar				Sand					
	1	1		Handling_	37マン				
1	1/	7 (Mileage					<u> </u>
1.	AN 15	7			FLOAT EQU				
71	M.,			Guide Shoo	Rubber	plug			
				Centralizer		<u> </u>			<u></u>
	イ	·		Baskets					
/L				AFU Insert	S				
				Float Shoe					
				Latch Dow	1				

				Purnptrk C	harge Jana	Surface			
				Mileage	6				
						-	Tax		
				7		C	iscount		
X Signature () Ou	Bue	(~~`				Total	Charge		
				_					

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041 Home Office P.O. Box 32 Russell, KS 67665

489

Cell 785-324-1041 Finish On Location State County Range Twp. Sec. 6:00 PM Osborne ilo 14 Date 6 9-18 HE Location Natoma Well No. 🛊 / Owner Lease Mc Reynolds To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish Contractor Royal cementer and helper to assist owner or contractor to do work as listed. 3.0 30 Type Job Production String Charge Bance 0.1 50 **28** Hole Size 7 1/4 T.D. Depth Street State City Depth Tbg. Size The above was done to satisfaction and supervision of owner agent or contractor. Depth Tool Cement Amount Ordered 200 60/40 Shoe Joint 10 10' Cement Left in Csg. Displace 78 641 Meas Line Common 12/ **EQUIPMENT** No. Cementer Helper Poz. Mix 80 Brett Pumptrk_18 No. Driver Driver Jordan Bulktrk No. Driver Driver Calcium Bulktrk JOB SERVICES & REMARKS Hulls Salt Remarks: Flowseal Rat Hole - 3()4x Kol-Seal Mouse Hole - 15 44 Mud CLR 48 - 500 Gal CFL-117 or CD110 CAF 38 Sand D/V or Port Collar 5/2 casing & Est cir Handling Mileage 5 h FLOAT EQUIPMENT Guide Shoe Centralizer - 5 Baskets - 4 AFU Inserts Float Shoe -300 Latch Down ` Pumptrk Charge Mileage Tax Discount Total Charge Sianature



Prepared For: Bruce Oil Company, LLC.

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Bob Petersen

McReynolds #1

16-8S-14W Osborne,KS

Start Date: 2018.06.08 @ 14:44:00 End Date: 2018.06.08 @ 21:28:00 Job Ticket #: 63910 DST #: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Bruce Oil Company, LLC.

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Bob Petersen

16-8S-14W Osborne, KS

McReynolds #1

Job Ticket: 63910

DST#:1

Test Start: 2018.06.08 @ 14:44:00

GENERAL INFORMATION:

Time Tool Opened: 16:56:45

Time Test Ended: 21:28:00

Formation:

LKC 'B-D'

Deviated:

Interval:

Total Depth:

Hole Diameter:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Spencer J. Staab

Unit No:

Reference Elevations:

1719.00 ft (KB)

1712.00 ft (CF)

3000.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

2916.00 ft (KB) To 3000.00 ft (KB) (TVD)

KB to GR/CF:

7.00 ft

Serial #: 9120

Press@RunDepth:

Outside

psig @

2919.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2018.06.08

End Date:

2018.06.08

Last Calib.: Time On Btm: 2018.06.08

Start Time:

14:44:15

End Time:

21:28:00

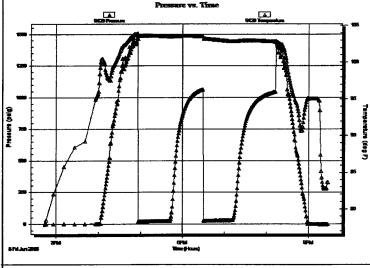
Time Off Btm:

TEST COMMENT: 45-IF-Weak Blow; Built to 3/4"

45-ISI-No Return

45-FF-Weak Surface Blow; Built to 1/4"

60-FSI-No Return



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 5%O 95%M	0.43
·		

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 63910



Bruce Oil Company, LLC.

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Bob Petersen

16-8S-14W Osborne, KS

McReynolds #1

Job Ticket: 63910

DST#: 1

Test Start: 2018.06.08 @ 14:44:00

GENERAL INFORMATION:

Formation:

LKC 'B-D'

Deviated:

No

Whipstock:

ft (KB)

Time Tool Opened: 16:56:45

Time Test Ended: 21:28:00

Interval:

2916.00 ft (KB) To 3000.00 ft (KB) (TVD)

Total Depth:

3000.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Spencer J. Staab

Unit No:

Reference Bevations:

1719.00 ft (KB)

1712.00 ft (CF)

KB to GR/CF:

7.00 ft

Serial #: 8368

Press@RunDepth:

Inside

29.27 psig @

2919.00 ft (KB) End Date:

2018.06.08

Capacity: Last Calib.: 8000.00 psig

Time On Btm:

2018.06.08

Time Off Btm:

2018.06.08 @ 20:13:00

Start Date:

Start Time:

2018.06.08 14:44:15

End Time:

21:28:00

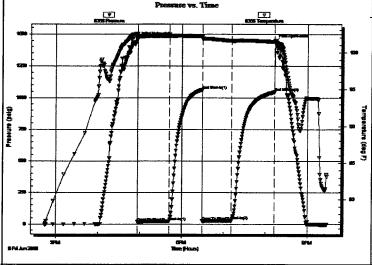
2018.06.08 @ 16:56:30

TEST COMMENT: 45-IF-Weak Blow; Built to 3/4"

45-ISI-No Return

45-FF-Weak Surface Blow; Built to 1/4"

60-FSI-No Return



PRESSURE SUMMARY

	l			
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1459.53	102.53	Initial Hydro-static
	1	19.31	101.91	Open To Flow (1)
	46	23.52	102.20	Shut-In(1)
	93	1063.09	102.18	End Shut-In(1)
	93	25.83	101.78	Open To Flow (2)
	135	29.27	101.60	Shut-ln(2)
	196	1044.33	101.46	End Shut-In(2)
	197	1441.12	101.59	Final Hydro-static
I				

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 5%O 95%M	0.43

Gas Rates

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

Trilobite Testing, Inc

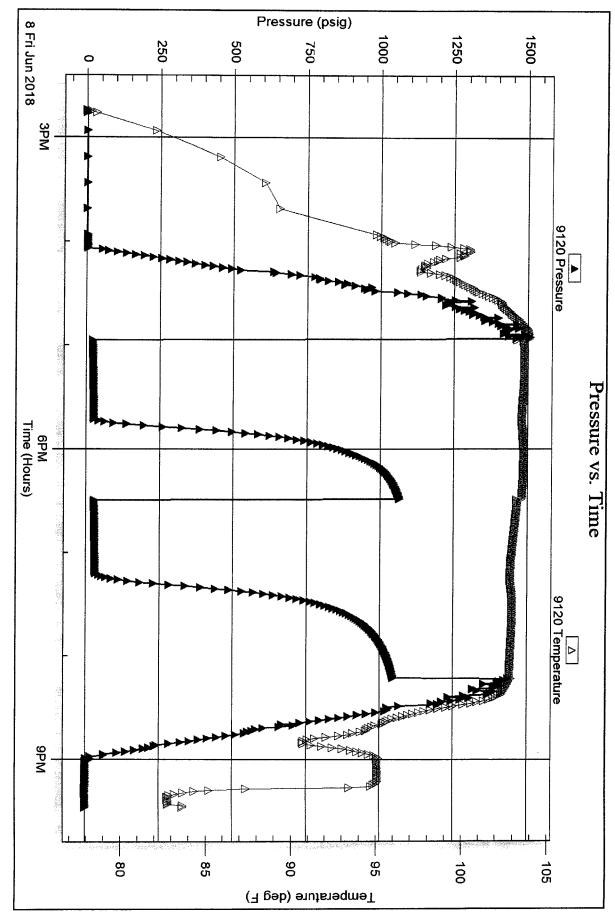
Ref. No: 63910

Printed: 2018.06.11 @ 10:29:48

Serial #: 9120

Outside

Bruce Oil Company, LLC.

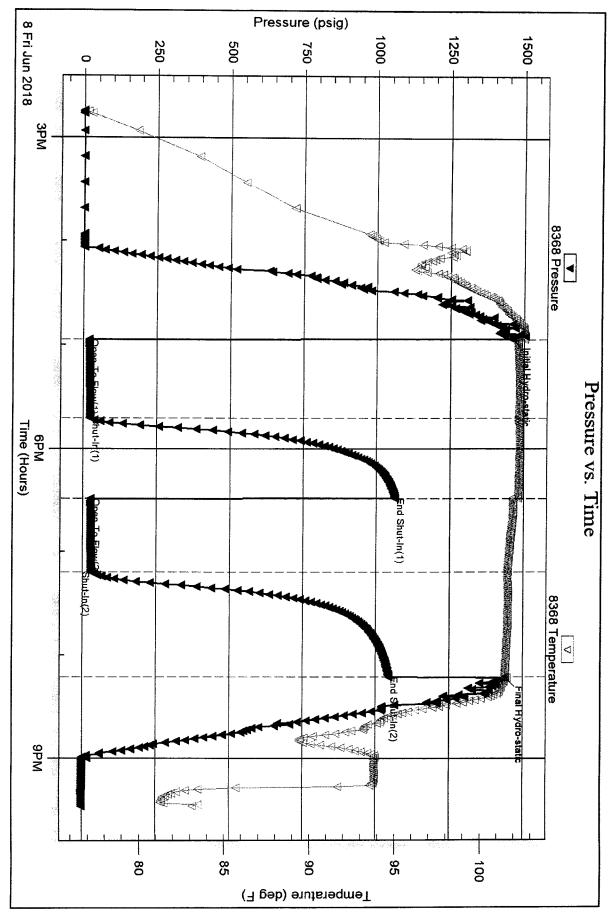


Printed: 2018.06.11 @ 10:29:48

Serial #: 8368

Inside

Bruce Oil Company, LLC.





FLUID SUMMARY

Bruce Oil Company, LLC.

16-8S-14W Osborne, KS

1704 Limestone Rd

McPherson KS 67460+6500

McReynolds #1

Job Ticket: 63910

Serial #:

ft

bbl

psig

DST#: 1

ATTN: Bob Petersen

Test Start: 2018.06.08 @ 14:44:00

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity:

59.00 sec/qt

Water Loss:

Resistivity:

Salinity: Filter Cake:

ohm.m 4400.00 ppm inches

5.99 in³

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 5%O 95%M	0.425

Total Length:

30.00 ft

Ref. No: 63910

Total Volume:

0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Laboratory Location:

Laboratory Name: Recovery Comments: 2#LCM



TOOL DIAGRAM

Bruce Oil Company, LLC.

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Bob Petersen

16-8S-14W Osborne, KS

McReynolds #1

Job Ticket: 63910

DST#: 1

Test Start: 2018.06.08 @ 14:44:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 2915.00 ft Diameter:

Length:

0.00 ft Diameter: 0.00 ft Diameter:

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

41.32 bbl 0.00 bbl 0.00 bbl Total Volume: 41.32 bbl

Tool Weight:

2200.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 64000.00 lb

Tool Chased String Weight: Initial 49000.00 lb

Printed: 2018.06.11 @ 10:29:47

Final 49000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

27.00 ft 2916.00 ft ft

Depth to Bottom Packer:

Interval between Packers: 84.00 ft Tool Length: 112.00 ft

Number of Packers:

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2889.00	*	
Shut in Tool	5.00			2894.00		
Hydraulic tool	5.00			2899.00		
Jars	5.00			2904.00		
Safety Joint	3.00			2907.00		
Packer	5.00			2912.00	28.00	Bottom Of Top Packer
Packer	4.00			2916.00		
Stubb	1.00			2917.00		
Perforations	1.00			2918.00		
Change Over Sub	1.00			2919.00		
Recorder	0.00	8368	Inside	2919.00		
Recorder	0.00	9120	Outside	2919.00		
Drill Pipe	63.00			2982.00		
Change Over Sub	1.00			2983.00		
Perforations	14.00			2997.00		
Bullnose	3.00			3000.00	84.00	Bottom Packers & Anchor
Total Tool Length	112.00					

Total Tool Length:



Test Ticket

NO. 63910

ESTING INC.				
1515 Commerce Parkway	• }	Hays,	Kansas	67601

Well Name & No. Mc Reynolds #1		Test No.	/	Date <u>06/08</u>	12018
Company Bruce Oil Company	110	· · · · · · · · · · · · · · · · · · ·	7719	кв 1712	GL
Address 1704 Limestone K	21 and DO	erson	H1.	67460+	/
Co. Rep / Geo. BOB Poterson		Rig Roy	al #1		
Location: Sec. 16 Twp 84	Rge. <u>14 w</u> Co	0 10	ne	State Z	<u>z</u>
Interval Tested 29/6 - 3000	Zone Tested LX	10° (13-D		
Anchor Length 84'	Drill Pipe Run	9/5'		Mud Wt. <u>9.2</u>	
Top Packer Depth 2911	Drill Collars Run			VIs <u>59</u>	
Bottom Packer Depth 29/6	Wt. Pipe Run	****		WL 6.0	
Total Depth 3000		. Pi	pm System	LCM 2#	
Blow Description 27- Weak Blow; Bu	ult to 34"				
SSI- No Return					
47- Wish Surface Blow Be	ult to 4"				
750- No Return					
Rec 30 Feet of SOCM		%gas	5 %oil	%waler	95 %mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total 30 BHT 1010	Gravity API R	w	_@•F	Chlorides	opm
(A) Initial Hydrostatic	Test 1050		T-On L	ocation <u>/4:/5</u>	
(B) First Initial Flow	Jars 250			ed <u>/4:44</u>	
(C) First Final Flow	Safety Joint 75		and the same of th	16:55	
(D) Initial Shut-In	Circ Sub			420 1/2	
(E) Second Initial Flow	☐ Hourly Standby		T-Out_	1/ 1 1	115
(F) Second Final Flow	Mileage 126 27	126		ents <u>loaded</u>	after
(G) Final Shut-In	☐ Sampler		-	21	<u> </u>
(H) Final Hydrostatic /441	☐ Straddle			ined Shale Packer	
	O Shale Packer			ined Snale Facker Ined Packer	
Initial Open <u>45</u>	Extra Packer			ra Copies	
Initial Shut-In 45	☐ Extra Recorder			ital0	
Final Flow 45	Day Standby			1501	
Final Shut-In	☐ Accessibility			ST Disc't	1,75%
	Sub Total 1501			Δ .2	20
Approved By	•		0.	11/1/2/	(7// .
Tritobite Testing Inc. shall not be liable for damaged of any kind of the property or	Our Repr	resentatiye2	Lewer	1. Mali-	Mark

72C-7C9_MCL



Prepared For: Bruce Oil Company, LLC.

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Bob Petersen

McReynolds #1

16-8S-14W Osborne,KS

Start Date: 2018.06.08 @ 14:44:00 End Date: 2018.06.08 @ 21:28:00 Job Ticket #: 63910 DST #: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Bruce Oil Company, LLC.

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Bob Petersen

16-8S-14W Osborne, KS

McReynolds #1

Job Ticket: 63910

DST#:1

Test Start: 2018.06.08 @ 14:44:00

GENERAL INFORMATION:

Time Tool Opened: 16:56:45

Time Test Ended: 21:28:00

Formation:

LKC 'B-D'

Deviated:

Interval:

Total Depth:

Hole Diameter:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Spencer J. Staab

Unit No:

Reference Elevations:

1719.00 ft (KB)

1712.00 ft (CF)

3000.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

2916.00 ft (KB) To 3000.00 ft (KB) (TVD)

KB to GR/CF:

7.00 ft

Serial #: 9120

Press@RunDepth:

Outside

psig @

2919.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2018.06.08

End Date:

2018.06.08

Last Calib.: Time On Btm: 2018.06.08

Start Time:

14:44:15

End Time:

21:28:00

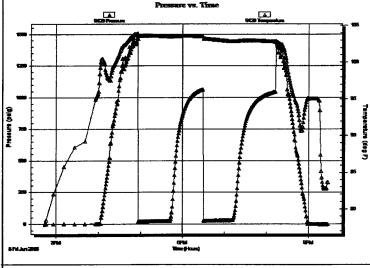
Time Off Btm:

TEST COMMENT: 45-IF-Weak Blow; Built to 3/4"

45-ISI-No Return

45-FF-Weak Surface Blow; Built to 1/4"

60-FSI-No Return



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

Recovery

Description	Volume (bbl)
SOCM 5%O 95%M	0.43

Gas	Rates	

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

Trilobite Testing, Inc

Ref. No: 63910



Bruce Oil Company, LLC.

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Bob Petersen

16-8S-14W Osborne, KS

McReynolds #1

Job Ticket: 63910

DST#: 1

Test Start: 2018.06.08 @ 14:44:00

GENERAL INFORMATION:

Formation:

LKC 'B-D'

Deviated:

No

Whipstock:

ft (KB)

Time Tool Opened: 16:56:45

Time Test Ended: 21:28:00

Interval:

2916.00 ft (KB) To 3000.00 ft (KB) (TVD)

Total Depth:

3000.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Spencer J. Staab

Unit No:

Reference Bevations:

1719.00 ft (KB)

1712.00 ft (CF)

KB to GR/CF:

7.00 ft

Serial #: 8368

Press@RunDepth:

Inside

29.27 psig @

2919.00 ft (KB) End Date:

2018.06.08

Time

(Min.)

Capacity: Last Calib.: 8000.00 psig

Time On Btm:

2018.06.08

Time Off Btm:

2018.06.08 @ 20:13:00

Start Date:

Start Time:

2018.06.08 14:44:15

End Time:

21:28:00

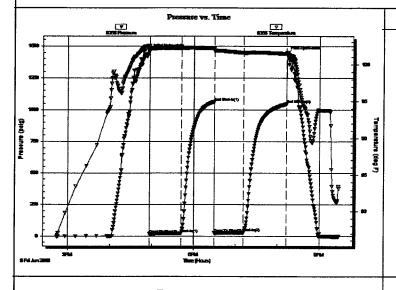
2018.06.08 @ 16:56:30

TEST COMMENT: 45-IF-Weak Blow; Built to 3/4"

45-ISI-No Return

45-FF-Weak Surface Blow; Built to 1/4"

60-FSI-No Return



PRESSURE SUMMARY Temp Annotation Pressure (psig) (deg F)

,	(1-3)	(
0	1459.53	102.53	Initial Hydro-static
1	19.31	101.91	Open To Flow (1)
46	23.52	102.20	Shut-In(1)
93	1063.09	102.18	End Shut-In(1)
93	25.83	101.78	Open To Flow (2)
135	29.27	101.60	Shut-In(2)
196	1044.33	101.46	End Shut-In(2)
197	1441.12	101.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 5%O 95%M	0.43

Gas Rates

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

Trilobite Testing, Inc

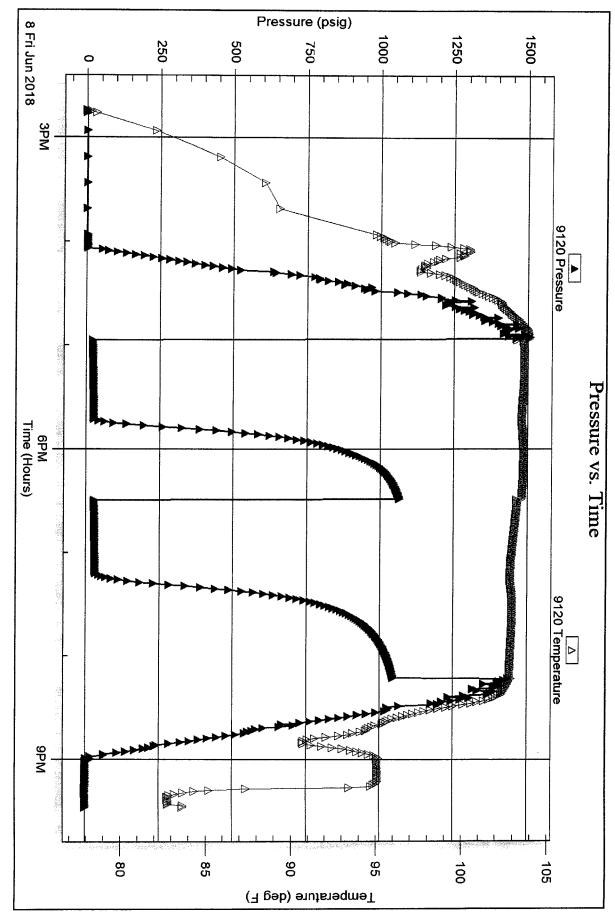
Ref. No: 63910

Printed: 2018.06.11 @ 10:29:48

Serial #: 9120

Outside

Bruce Oil Company, LLC.

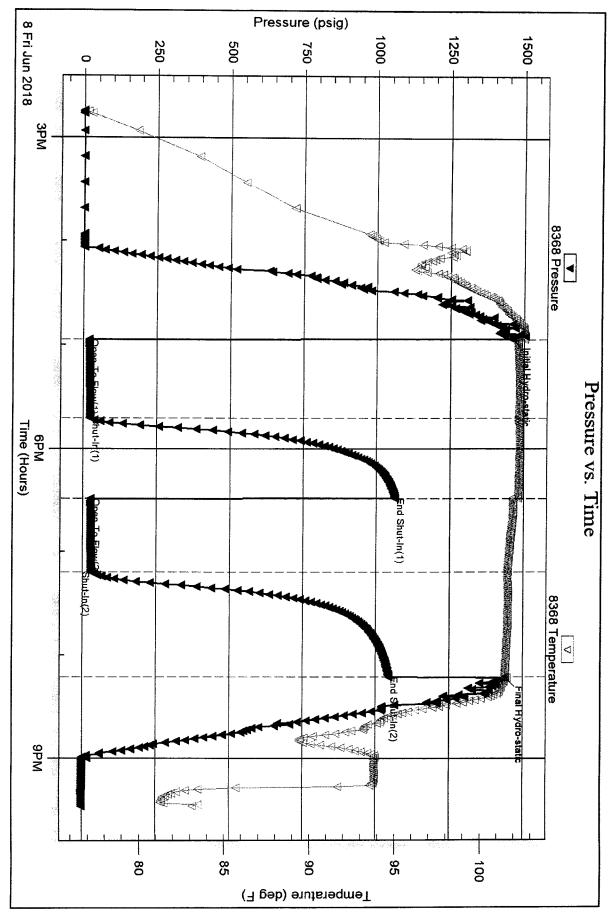


Printed: 2018.06.11 @ 10:29:48

Serial #: 8368

Inside

Bruce Oil Company, LLC.





FLUID SUMMARY

Bruce Oil Company, LLC.

16-8S-14W Osborne, KS

1704 Limestone Rd McPherson KS 67460+6500 McReynolds #1 Job Ticket: 63910

DST#: 1

ATTN: Bob Petersen

Test Start: 2018.06.08 @ 14:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight:

9.00 lb/gal

Cushion Length:

Water Salinity:

ppm

Viscosity:

59.00 sec/qt

Cushion Volume:

ft bbl

Water Loss:

5.99 in³

Gas Cushion Type:

Resistivity: Salinity:

Filter Cake:

ohm.m 4400.00 ppm

inches

Gas Cushion Pressure:

psig

Recovery Information

Recovery Table

Length Description Volume bbl 30.00 SOCM 5%O 95%M 0.425

Total Length:

30.00 ft

Ref. No: 63910

Total Volume:

0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM



TOOL DIAGRAM

Bruce Oil Company, LLC.

1704 Limestone Rd McPherson KS 67460+6500

ATTN: Bob Petersen

16-8S-14W Osborne, KS

McReynolds #1

Job Ticket: 63910

DST#: 1

Test Start: 2018.06.08 @ 14:44:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Pipe Above KB:

Depth to Top Packer:

Drill Collar:

Length: 2915.00 ft Diameter:

Length:

0.00 ft Diameter:

2916.00 ft

84.00 ft

0.00 ft Diameter: 27.00 ft

ft

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

Total Volume:

0.00 bbl 0.00 bbl 41.32 bbl

41.32 bbl

Tool Weight:

Tool Chased

2200.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 64000.00 lb

String Weight: Initial 49000.00 lb

Final 49000.00 lb

Depth to Bottom Packer:

Interval between Packers:

Tool Length: Number of Packers:

112.00 ft Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2889.00		
Shut In Tool	5.00			2894.00		
Hydraulic tool	5.00			2899.00		
Jars	5.00			2904.00		
Safety Joint	3.00			2907.00		
Packer	5.00			2912.00	28.00	Bottom Of Top Packer
Packer	4.00			2916.00		
Stubb	1.00			2917.00		
Perforations	1.00			2918.00		
Change Over Sub	1.00			2919.00		
Recorder	0.00	8368	Inside	2919.00		
Recorder	0.00	9120	Outside	2919.00		
Drill Pipe	63.00			2982.00		
Change Over Sub	1.00			2983.00		
Perforations	14.00			2997.00		
Bullnose	3.00			3000.00	84.00	Bottom Packers & Anchor
Total Tool Length	: 112.00	-				

Trilobite Testing, Inc

Ref. No: 63910



Test Ticket

NO. 63910

ESTING INC.				
1515 Commerce Parkway	• }	Hays,	Kansas	67601

Well Name & No. Mc Reynolds #1		Test No.	/	Date <u>06/08</u>	12018
Company Bruce Oil Company	110	· · · · · · · · · · · · · · · · · · ·	7719	кв 1712	GL
Address 1704 Limestone K	21 and DO	erson	H1.	67460+	/
Co. Rep / Geo. BOB Poterson		Rig Roy	al #1		
Location: Sec. 16 Twp 84	Rge. <u>14 w</u> Co	0 10	ne	State Z	<u>z</u>
Interval Tested 29/6 - 3000	Zone Tested LX	10° (13-D		
Anchor Length 84'	Drill Pipe Run	9/5'		Mud Wt. <u>9.2</u>	
Top Packer Depth 2911	Drill Collars Run			VIs <u>59</u>	
Bottom Packer Depth 29/6	Wt. Pipe Run	****		WL 6.0	
Total Depth 3000		. Pi	pm System	LCM 2#	
Blow Description 27- Weak Blow; Bu	ult to 34"				
SSI- No Return					
47- Wish Surface Blow Be	ult to 4"				
750- No Return					
Rec 30 Feet of SOCM		%gas	5 %oil	%waler	95 %mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total 30 BHT 1010	Gravity API R	w	_@•F	Chlorides	opm
(A) Initial Hydrostatic	Test 1050		T-On L	ocation <u>/4:/5</u>	
(B) First Initial Flow	Jars 250			ed <u>/4:44</u>	
(C) First Final Flow	Safety Joint 75		and the same of th	16:55	
(D) Initial Shut-In	Circ Sub			420 1/2	
(E) Second Initial Flow	☐ Hourly Standby		T-Out_	1/ 1 1	115
(F) Second Final Flow	Mileage 126 27	126		ents <u>loaded</u>	after
(G) Final Shut-In	☐ Sampler		-	21	<u> </u>
(H) Final Hydrostatic/441	☐ Straddle			ined Shale Packer	
	O Shale Packer			ined Snale Facker Ined Packer	
Initial Open <u>45</u>	Extra Packer			ra Copies	
Initial Shut-In 45	☐ Extra Recorder			ital 0	
Final Flow 45	Day Standby			1501	The state of the s
Final Shut-In	☐ Accessibility			ST Disc't	1,75%
	Sub Total 1501			Δ .2	20
Approved By	•		0.	11/1/2/	(7// .
Tritobite Testing Inc. shall not be liable for damaged of any kind of the property or	Our Repr	resentatiye2	Lewer	1. Mali-	Mark

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