KOLAR Document ID: 1401908

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:	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.xxxxxx) (e.gxxx.xxxxxx)			
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)	Multiple Stage Cementing Collar Used? Yes No			
Cathodic Other (Core, Expl., etc.):				
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)			
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls			
Dual Completion Permit #:	Dewatering method used:			
SWD Permit #:	Location of fluid disposal if hauled offsite:			
EOR Permit #:	Location of haid disposal in hadica offsite.			
GSW Permit #:	Operator Name:			
_	Lease Name: License #:			
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West			
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 Approved by: Date:

KOLAR Document ID: 1401908

#### Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [	East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery,  Digital electronic log
	Drill Stem Tests Taken  (Attach Additional Sheets)  Log Formation (Top), Depth and Datum  Sample									Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name	)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€  Y€	es No						
			Repo		RECORD [	Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[	Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	ad Paraant Additivas	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	# Sacks Used Type and Percent Additives				
Plug Off Z										
Did you perform     Does the volum     Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping  Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	g Bridge Plug Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)			Record		
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Jones Oil, LLC
Well Name	DUNN 1
Doc ID	1401908

## All Electric Logs Run

SONIC	
POR	
ML	
DIL	

Form	ACO1 - Well Completion
Operator	Jones Oil, LLC
Well Name	DUNN 1
Doc ID	1401908

## Tops

Name	Тор	Datum
HEEB	3378	-1435
TORONTO	3400	-1457
DOUGLAS	3416	-1473
BL	3520	-1577
KC	3538	-1595
В	3553	-1610
F	3598	-1655
Н	3653	-1710
K	3723	-1780
SIMP	3943	-2000
ARB	4004	-2061

Form	ACO1 - Well Completion
Operator	Jones Oil, LLC
Well Name	DUNN 1
Doc ID	1401908

## 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	24	639	COMMON	CELLOFL AKE/CAL CIUM

#### MUD LOG

## **WellSight Systems**

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Dunn #1

API: 15-185-24007-00-00

Location: N2-SE-NE-NE of Sec. 24 - Twp. 23 - R14W

License Number: 30116 Region: Kansas

Spud Date: 2/2/2018 Drilling Completed: 2/10/2018

Surface Coordinates: 969 FNL - 330 FEL

Long: -98.8036542 Lat: 38.0406516

Bottom Hole Same as surface coordinates

Coordinates:

Ground Elevation (ft): 1936 K.B. Elevation (ft): 1943 Logged Interval (ft): 3000 To: 4040 Total Depth (ft): 4040

Formation: Arbuckle Dolomite @ Total Depth

Type of Drilling Fluid: Chemical Drispac (Andys)

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

#### **OPERATOR**

Company: Jones Oil, LLC

Address: 112 N Gray St, St. John KS 67576

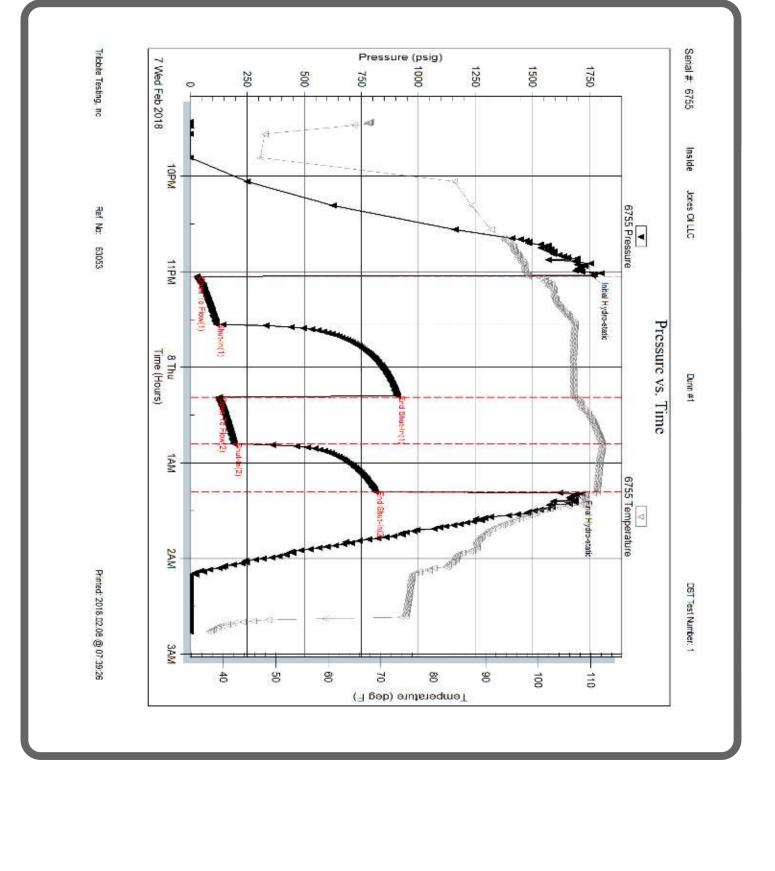
#### **GEOLOGIST**

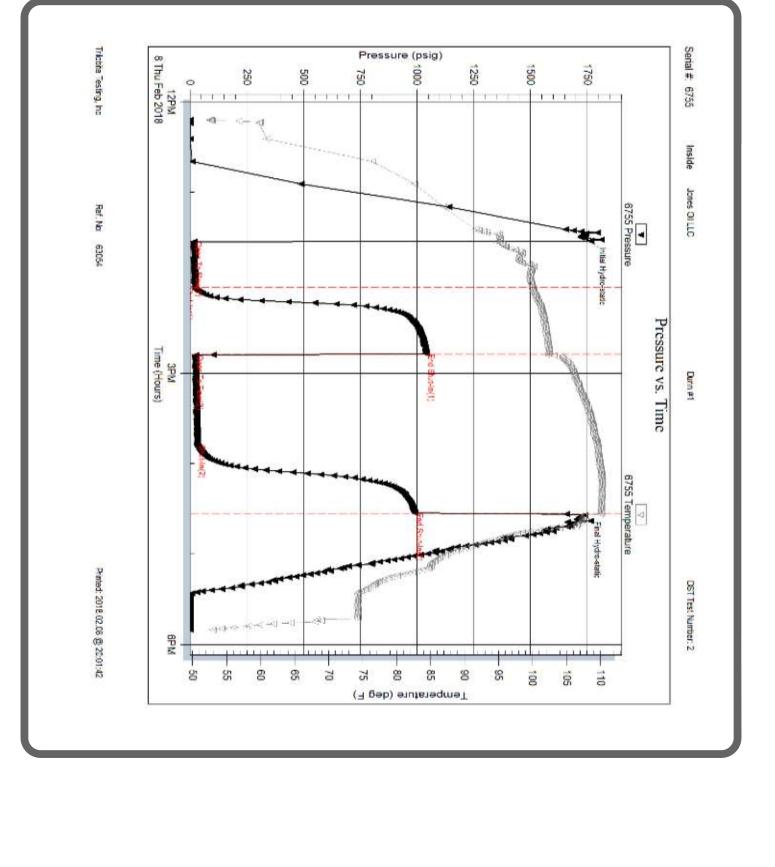
Name: Keaton Jones

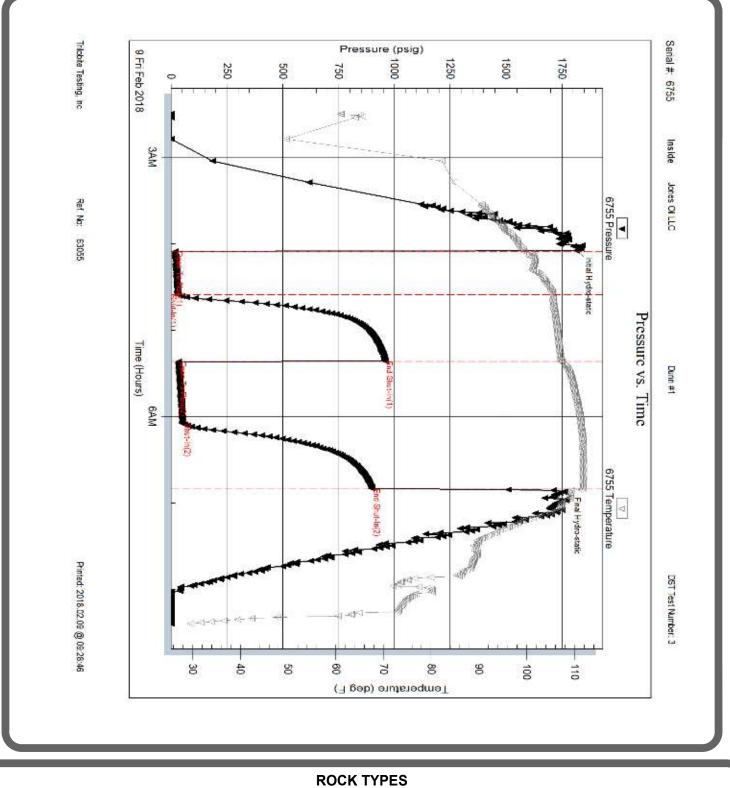
Company: Rockhound Petroleum, LLC Address: P.O Box 43 St. John KS 67576

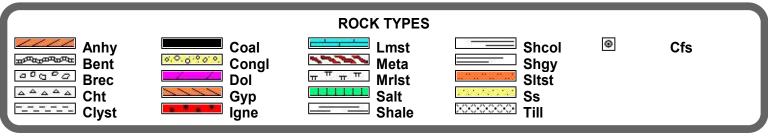
(620)-546-4010

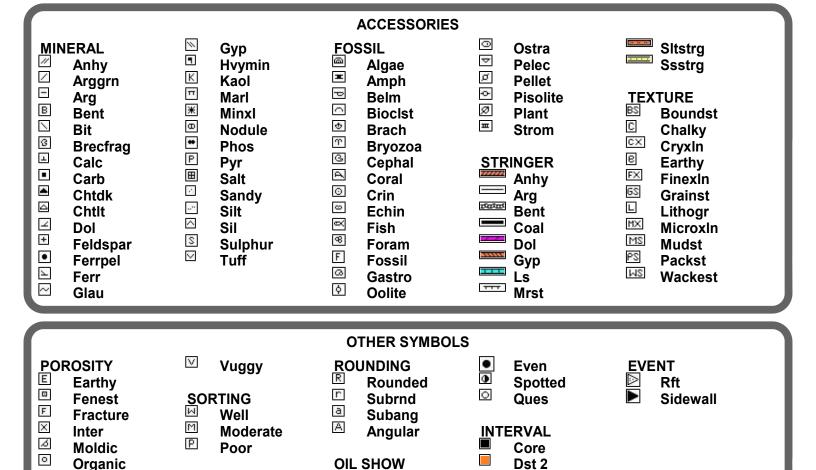
Dunn #1 Comparison to							
Formation	Staub 1-24	Nannie	Devore 1	Budge2	Malin	Gray2	
ANH	-24	-28	-14	-18	10	-27	
Heeb	19	-4	18	-1	-4	-5	
BL	19	4	28	1	0	0	
KCL	17	2	28	-1	0	-5	
Viola	22	N/A	19	-15	N/A	-17	
ARB	29	N/A	26	-2	N/A	-11	

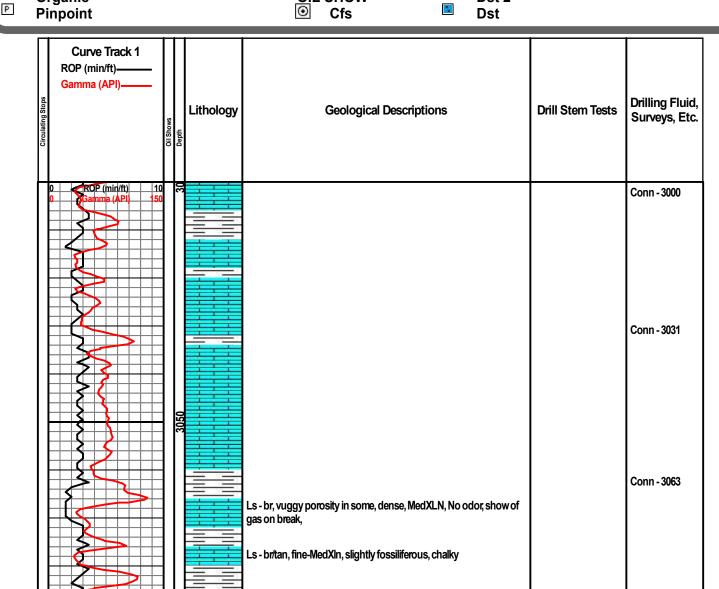


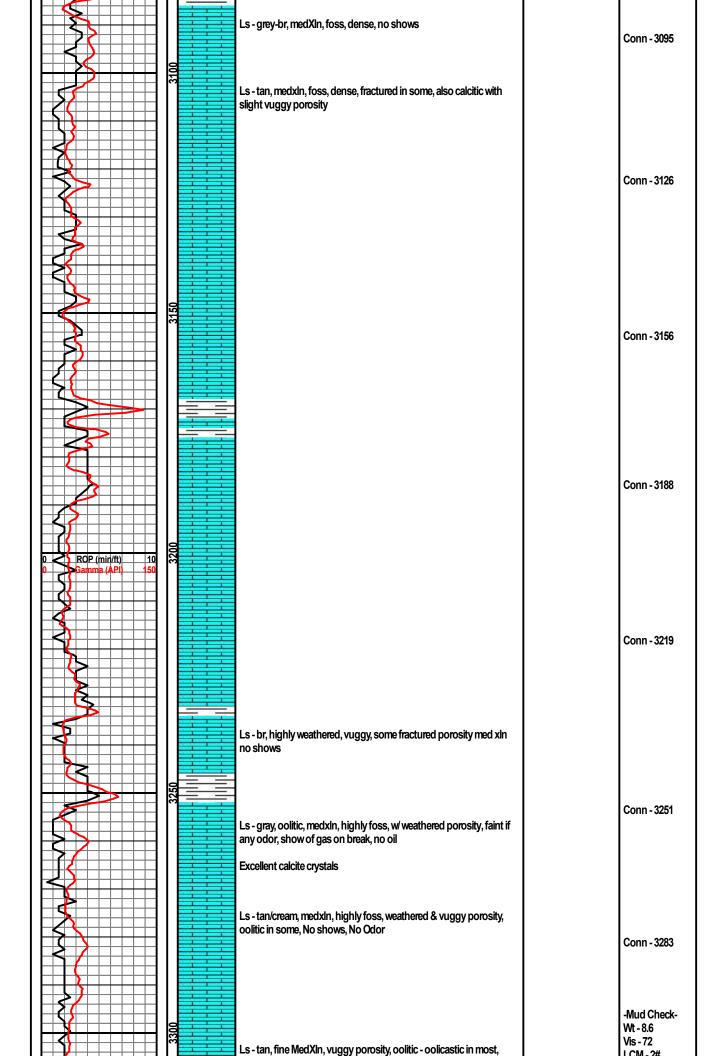












	fossiliferous, No Shows	LOWI-ZW
		Conn - 3315
	Ls-tan, foss, medxln, fractured porosity, vuggy, calcitic, No Shows	
		Conn - 3347
		Conn - 3379
Heebner		301111-33/3
	Shale - Jet black	-Mud Check-
0		Wt - 8.6
		Vis - 72
	<u>=</u> -	LCM - 2#
Toronto		
0 ROF (min/ft) 10 Garma (API) 150		-Mud Check-
0 (Garrina (API) 150		Wt - 8.6
		Vis - 70
		LCM - 2#
Douglas		Conn - 3411
		-Mud Check-
		Wt - 8.6
		Vis - 74 LCM - 2#
	Sh - Gray, chalky in part	LOWI-2#
		Conn - 3442 Rig Check
		Rig Crieck
3450	Sh - Gray, chalky in part  Sh - gray, waxy  sh - gray	
		- Mud Check -
		3455
		Wt - 8.8
	<b>≕</b>	Vis - 68 WL - 8
	Sh - gray, waxy	CHL - 4,800
		LCM - 1.5#
	=	Conn - 3474
	<b>=</b>	
	sh - gray	
	<del>=1</del>	
		Conn - 3506
		Repair
	<b>■</b>	Geolograph
Proved Line		
Brown Lime		
	Ls - br, micro/fine Xln, fossiliferous in most, Dense	

LKC		Sh - gray, Limy in part		
Lansing "B"				Conn - 3538
CFS - 3565		Ls - tan, f/med Xln, vuggy porosity, fractured and calcitic, sfo&g on break, slight show of gas in few, strong odor		3565 CFS - 30-45-60
Lansing "F"		Ls - white/cream, Med XIn, dense, well saturdated, sfo&g on break, strong odor, oil show was a heavy oil mostly residule.	DST "1" 3553-3606 recovery - 372' Muddy Water - 80% water 20% Mud FP: 29-115 FP: 123-192 SIP: 906-812	Conn - 3568
ROP (min/ft) 10	ō	Ls - whit, highly fossiliferous, med XIn, some oolitic, sfo&g on break, well saturated, strong odor, lighter oil and more active oil than above		Conn - 3600
	F.	Ls - cream/white, fine Xln, very dense with some oolitic chert on top. No Shows		- Pipe Strap - 0.73 Long to Board
	0			Conn - 3632 Rig Check
Lansing "H" Por-	F O	Ls - tan, fine XIn, fractures and fossils in some.		- Mud Check - 3632 Wt - 8.8 Vis - 59 WL - 9.2 CHL - 7,000 LCM - 1.5#
CFS-3666	o o	Ls - Highly oolicastic, with interconnecting porosity, sfo&g, strong odor, free oil floating in tray	DST - "2" 3649 - 3666 Recovery 40' Muddy Water -	Conn - 3664
		Sh - black/grey	90% water 10% Mud FP - 16-21	3666 CFS - 30-45-60
	F O	Ls - br, dense, fractured, calcitic, No shows No Odor	FP - 23-32 SIP - 1041-991	
3700		Ls - tan, highly oolicastic w/ interconnecting porosity, well saturated, sfo&g, strong odor Ls - Wht/tan, f/MedXln, Pinpoint Porosity, sfo&g, strong odor Ls - wht/tan, f/MedXln, vuggy Porosity, calcitic fractures, sfo&g, Strong Odor	DST "3" 3690-3715 Recovery 70 - Muddy Water 85% water 15% Mud FP: 17-30	Conn - 3694
CFS - 3715			FP: 33-52 SIP: 957-899	3715 CFS - 30-45-60
		Ls - wht, dense, fine-med xln, fossils, fractured, sfo&g on break, no live free oil, medium odor		- Mud Check - 3715 Wt - 9.2 Vis - 80 WL - 10.8 CHL - 9,000 LCM - 1#
	0	Ls - wht, very dense, fine xln, some fossils, fractured in most, no		Conn - 3726

	T		shows, no odor	
	20			
	37			
	ı		Sh - black	Conn - 3757
	ı			001111-3737
	ı			
	ı	F	Ls - Wht, very dense, some fossils, fine xln, no shows	
	ı			
	ı		Sh - Black	
	ı			
BKC	ı			
	╀			
	ı	<del></del>		
	ı		Sh - grey to black	Conn - 3786
	ı		on groy to water.	
	ı			
	ı	0.0.000	Congl - multi colored lime and cherts vry dse	
	ı	00000	•	
	18	0. 2. 0. 20 0.		
0 ROP (min)(f) 10	8	0.0.0.000		
0 Gainma (AVS) 150	ı	NO 2.0 NO		
	ı			
	ı	0.0.0.000		
	ı	0.0000	Congl/ss - mostly purple, dse, fine grained, some green tinted shale	
	ı	00000		Conn - 3818
		<u>o, Q, 6, °, o, °,</u>		
	ı			
	ı	0,0,0,0,0,0,0		
	ı	0.0.0.0.0		
	ı	0.0.0.00		
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	ı			
	ı			
	ı			
	3850			Conn - 3850
	8		Sh - grey	
	ı	<del></del>		
	ı			
	ı			
	ı			
	ı			- Mud Check -
	ı		Samples very dirty with red chalk	Wt - 9.0 Vis - 51
	ı		. , ,	VIS-51
	ı	0.0.0°0°0°	Ch/ Congl - ch, various colors very dense, sandy ch, sub rounded	
	ı	4444	poor sorted, No Shows No Odor	
	ı	0.0.6.000 AAAAA	poor sorted, No orions No odor	Conn - 3881
	ı	0.0.0.000		Rig Check
		<u> </u>		
	L	$\triangle \triangle \triangle \triangle \triangle$	Ch - mostly white with vairous colors, fractured, No shows, No Odor	
	3900		, , , , , , , , , , , , , , , , , , , ,	
	۱۳	4444		
		4 4 4 4 4 4 4 4 4 4		
			Object Management of the second secon	Conn - 3913
			Ch - white, very dse, fractured, some tripoolitic, oil staining, few	
<b>5</b>		4444	highly weathered pieces, No Shows, No Odor	
		A A A A A	Ol. Markedea No.C.	
			Ch - White, very dse, No Shows	
		$\Delta \Delta \Delta \Delta \Delta$		
		A A A A A		
Simpson		AAAAA		0
Jiiipauli	L			Conn - 3945
	1			
	وا		Sh - Green tint - sandy in most - waxy in most,	1
	395(			
	1			l
				l
				l
		4.0.00	OLD THE STATE OF T	
	_		The second secon	

		No Odor  Sh - Green, waxy	Conn 3977 Rig Check
Arbuckle of CFS - 4003	7000	Dol - Clear with a Pinkish tint, sucrosic in most and sandy toawrds the top, fine to Med XLN, fairly dense, No Shows No Odor	
GFS-4004		the top, fine to Med XLN, fairly dense, No Shows No Odor  Dol - Tan, weathered to Vuggy Porosity, Fine XLN, Fairly Dense, No Shows No Odor	Conn - 4008
		Dol - Tan, Oolicastic, Fine-Med XLN, No Interconnecting oolicasts, No Shows Now Odor	R.T.D - 4040 Kelly Down
	AOEO		
	9		



Jones Oil LLC

112 N Gray

67576+1923

ATTN: Keaton Jones

24/23S/14W/Stafford

Dunn #1

St. John Kansas Job Ticket: 63053

Test Start: 2018.02.07 @ 21:26:00

DST#: 1

GENERAL INFORMATION:

Formation: Lansing zones B-F

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 23:03:02 Tester: Ken Sw inney Time Test Ended: 02:46:02 Unit No: 72 Great Bend/ 52

Interval: 3553.00 ft (KB) To 3606.00 ft (KB) (TVD) Reference Elevations: 1943.00 ft (KB)

Total Depth: 3606.00 ft (KB) (TVD) 1936.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 6755 Inside

Press@RunDepth: 3554.00 ft (KB) Capacity: 192.65 psig @ psig

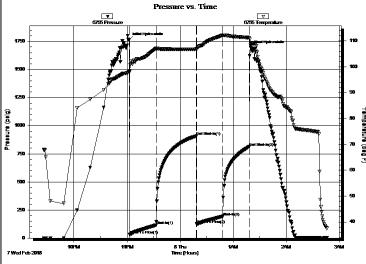
Start Date: 2018.02.07 End Date: 2018.02.08 Last Calib.: 2018.02.08 Start Time: 21:26:01 End Time: 2018.02.07 @ 23:02:32 02:46:02 Time On Btm: 2018.02.08 @ 01:19:47 Time Off Btm:

TEST COMMENT: IF 30 Minutes/ Blow built to BOB in 8 minutes

> LST 45 Minutes/ No blow back

F.F. 30 Mintues/ Blow built to 2 inches then died to 1/2 inch

30 Minutes/ No blow back F.S.I.



PRESSURE SUMMARY					
Ī	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1761.99	98.04	Initial Hydro-static	
	1	29.38	98.06	Open To Flow (1)	
	31	115.13	106.97	Shut-ln(1)	
	76	906.79	106.78	End Shut-In(1)	
	77	123.70	106.81	Open To Flow (2)	
	106	192.65	112.09	Shut-In(2)	
6 5	136	812.30	111.20	End Shut-In(2)	
J	138	1691.66	109.12	Final Hydro-static	

DDECCLIDE CLIMMADY

#### Recovery

Length (ft)	Description	Volume (bbl)
372.00 Muddy Water w/show of oil		5.22
0.00	Mud 20% Water 80%	0.00

Gas Nai	.62	
Choke (inches)	Pressure (psig.)	Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 63053 Printed: 2018.02.08 @ 07:39:25



Jones Oil LLC

112 N Gray

24/23S/14W/Stafford

DST#: 1

Dunn #1

St. John Kansas 67576+1923 Job Ticket: 63053

ATTN: Keaton Jones Test Start: 2018.02.07 @ 21:26:00

GENERAL INFORMATION:

Formation: Lansing zones B-F

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

Time Tool Opened: 23:03:02 Tester: Ken Sw inney
Time Test Ended: 02:46:02 Unit No: 72 Great Bend/ 52

 Interval:
 3553.00 ft (KB) To
 3606.00 ft (KB) (TVD)
 Reference Elevations:
 1943.00 ft (KB)

Total Depth: 3606.00 ft (KB) (TVD) 1936.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 6752 Outside

Press@RunDepth: 812.94 psig @ 3555.00 ft (KB) Capacity: psig

 Start Date:
 2018.02.07
 End Date:
 2018.02.08
 Last Calib.:
 2018.02.08

 Start Time:
 21:26:01
 End Time:
 02:46:02
 Time On Btm:
 2018.02.07 @ 23:02:32

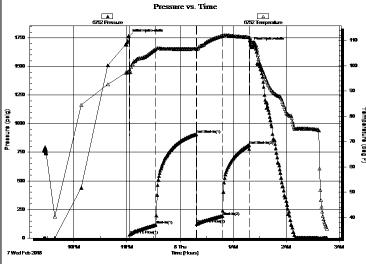
 Time Off Btm:
 2018.02.08 @ 01:19:47

TEST COMMENT: I.F. 30 Minutes/ Blow built to BOB in 8 minutes

I.S.I. 45 Minutes/ No blow back

F.F. 30 Mintues/ Blow built to 2 inches then died to 1/2 inch

F.S.I. 30 Minutes/ No blow back



PRESSURE SUMMARY					
Time	Pressure	Temp	Annotation		
(Min.)	(psig)	(deg F)			
0	1762.33	97.75	Initial Hydro-static		
1	30.10	97.51	Open To Flow (1)		
31	115.97	106.76	Shut-In(1)		
76	908.07	106.66	End Shut-In(1)		
77	124.24	106.48	Open To Flow (2)		
106	193.29	111.92	Shut-In(2)		
136	812.94	111.27	End Shut-In(2)		
138	1693.46	109.99	Final Hydro-static		
	(Min.) 0 1 31 76 77 106 136	Time (Min.) (psig)  0 1762.33  1 30.10  31 115.97  76 908.07  77 124.24  106 193.29  136 812.94	Time (Min.) (psig) (deg F) 0 1762.33 97.75 1 30.10 97.51 31 115.97 106.76 76 908.07 106.66 77 124.24 106.48 106 193.29 111.92 136 812.94 111.27		

#### Recovery

Length (ft)	Description	Volume (bbl)
372.00	372.00 Muddy Water w/show of oil	
0.00	Mud 20% Water 80%	0.00

	Gas Rat	es	
1	Choke (inches)	Proceuro (peig)	Cas Pate (Mef/d)

Trilobite Testing, Inc Ref. No: 63053 Printed: 2018.02.08 @ 07:39:25



**FLUID SUMMARY** 

Jones Oil LLC

112 N Gray

67576+1923

St. John Kansas

ATTN: Keaton Jones

24/23S/14W/Stafford

Dunn #1

Job Ticket: 63053

DST#: 1

**-** . . . .

Test Start: 2018.02.07 @ 21:26:00

**Mud and Cushion Information** 

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

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 23000 ppm

Viscosity: 68.00 sec/qt Cushion Volume: bbl

Water Loss: 7.98 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4800.00 ppm Filter Cake: 1.00 inches

### **Recovery Information**

#### Recovery Table

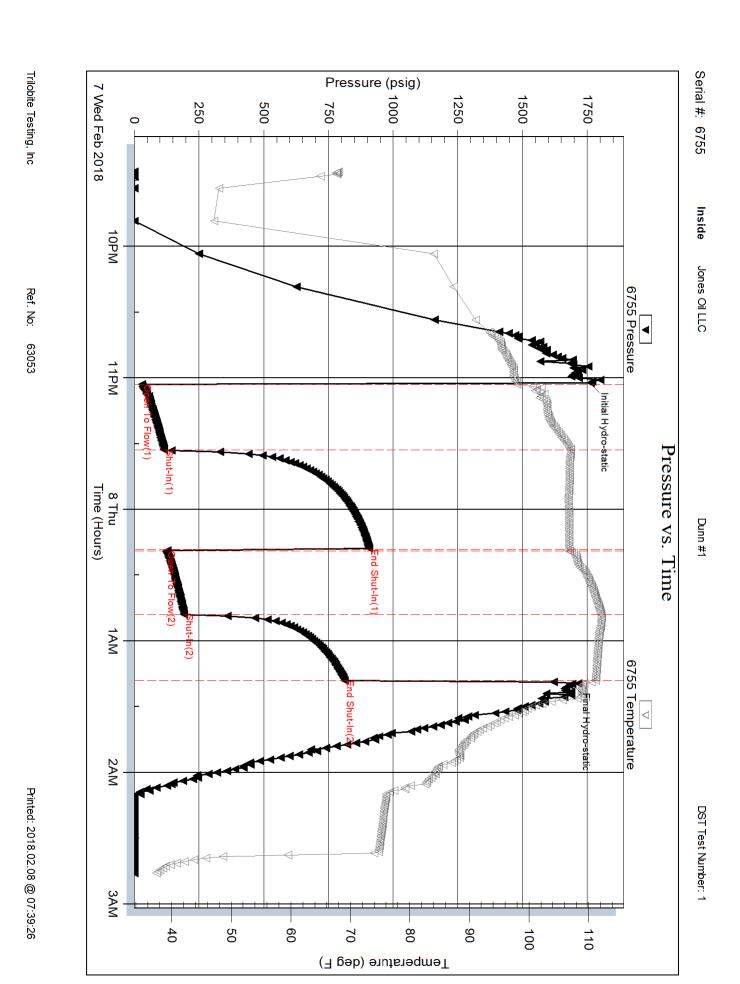
Length ft	Description	Volume bbl
372.00	Muddy Water w/show of oil	5.218
0.00	Mud 20% Water 80%	0.000

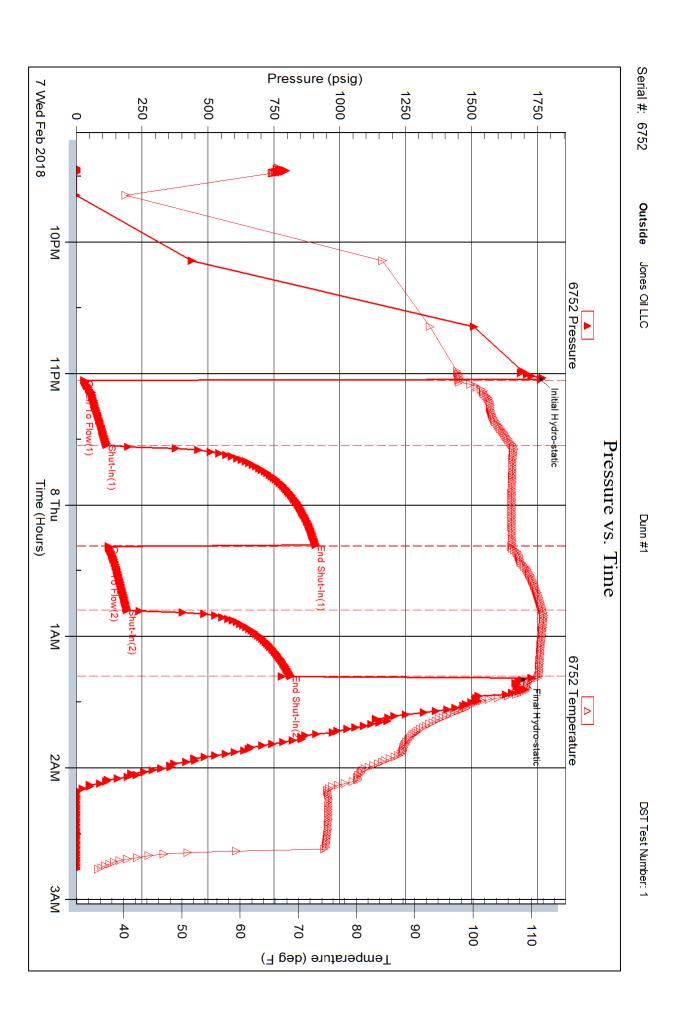
Total Length: 372.00 ft Total Volume: 5.218 bbl

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

Laboratory Name: Laboratory Location: Recovery Comments: Recovery Resistivity .581 ohms @ 34 deg.

Trilobite Testing, Inc Ref. No: 63053 Printed: 2018.02.08 @ 07:39:26





Trilobite Testing, Inc

Ref. No:

63053

Printed: 2018.02.08 @ 07:39:26



Jones Oil LLC

24/23S/14W/Stafford

112 N Gray St. John Kansas 67576+1923

Job Ticket: 63054

Dunn #1

DST#: 2

ATTN: Keaton Jones

DO1#.2

#### GENERAL INFORMATION:

Formation: Lansing zone H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:32:47 Time Test Ended: 17:50:02

Interval:

3649.00 ft (KB) To 3666.00 ft (KB) (TVD)

Total Depth: 3666.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Sw inney
Unit No: 72 Great Bend/ 52

Test Start: 2018.02.08 @ 12:12:00

\_ .. \_ ..

Reference Elevations: 1943.00 ft (KB)

1936.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6755 Inside

Press@RunDepth: 32.89 psig @ 3650.00 ft (KB) Capacity: psig

 Start Date:
 2018.02.08
 End Date:
 2018.02.08
 Last Calib.:
 2018.02.08

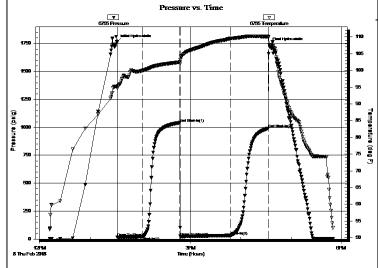
 Start Time:
 12:12:01
 End Time:
 17:50:02
 Time On Btm:
 2018.02.08 @ 13:32:17

Time Off Btm: 2018.02.08 @ 16:34:17

DDECCLIDE CLIMANADY

TEST COMMENT: I.F. 30 Minutes/ Blow built to 3 inches

I.S.I. 45 Minutes/ No blow back
F.F. 60 Minutes/ Blow built to 3 inches
F.S.I. 45 Mintues/ No blow back



	PRESSURE SUMMARY				
Ī	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1763.42	95.29	Initial Hydro-static	
	1	16.39	94.70	Open To Flow (1)	
	31	21.17	99.99	Shut-ln(1)	
	75	1041.30	102.51	End Shut-In(1)	
	76	23.72	103.10	Open To Flow (2)	
	136	32.89	109.56	Shut-In(2)	
	181	991.51	110.08	End Shut-In(2)	
	182	1739.14	107.65	Final Hydro-static	

#### Recovery

Description	Volume (bbl)
Muddy Water/ Mud 10% Water 90%	0.56
	·

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

Trilobite Testing, Inc Ref. No: 63054 Printed: 2018.02.08 @ 20:01:42



Jones Oil LLC

24/23S/14W/Stafford

112 N Gray

St. John Kansas 67576+1923

ATTN: Keaton Jones

Dunn #1

Job Ticket: 63054 **DST#: 2** 

Test Start: 2018.02.08 @ 12:12:00

#### GENERAL INFORMATION:

Formation: Lansing zone H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:32:47 Time Test Ended: 17:50:02

Interval: 3649.00 ft (KB) To 3666.00 ft (KB) (TVD)

Total Depth: 3666.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Sw inney
Unit No: 72 Great Bend/ 52

Reference Elevations: 1943.00 ft (KB)

1936.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6752 Outside

Press@RunDepth: 992.41 psig @ 3651.00 ft (KB) Capacity: psig

Start Date: 2018.02.08 End Date: 2018.02.08 Last Calib.: 2018.02.08

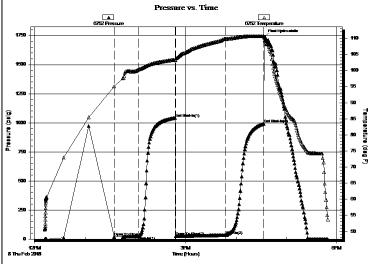
Start Time: 12:12:01 End Time: 17:50:02 Time On Btm:

Time Off Btm: 2018.02.08 @ 16:34:17

DDECCLIDE CLIMANADY

TEST COMMENT: I.F. 30 Minutes/ Blow built to 3 inches

I.S.I. 45 Minutes/ No blow back
F.F. 60 Minutes/ Blow built to 3 inches
F.S.I. 45 Mintues/ No blow back



	PRESSURE SUMMARY			
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	18.57	95.08	Open To Flow (1)
	29	23.76	100.24	Shut-ln(1)
	73	1042.23	103.36	End Shut-In(1)
	74	24.67	103.17	Open To Flow (2)
3	134	33.93	109.78	Shut-ln(2)
	179	992.41	110.64	End Shut-In(2)
,	180	1740.31	109.41	Final Hydro-static
9				

#### Recovery

Description	Volume (bbl)
0.00 Muddy Water/ Mud 10% Water 90%	
	·

Gas Rates		
Choke (inches)	Proceure (peig)	Cas Pate (Mef/d)

Trilobite Testing, Inc Ref. No: 63054 Printed: 2018.02.08 @ 20:01:42



**FLUID SUMMARY** 

Jones Oil LLC

112 N Gray

67576+1923

St. John Kansas

24/23S/14W/Stafford

Dunn #1

Job Ticket: 63054

DST#: 2

ATTN: Keaton Jones

Test Start: 2018.02.08 @ 12:12:00

#### **Mud and Cushion Information**

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

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 15000 ppm

Viscosity: 59.00 sec/qt Cushion Volume: bbl

Water Loss: 9.18 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 7000.00 ppm Filter Cake: 1.00 inches

#### **Recovery Information**

#### Recovery Table

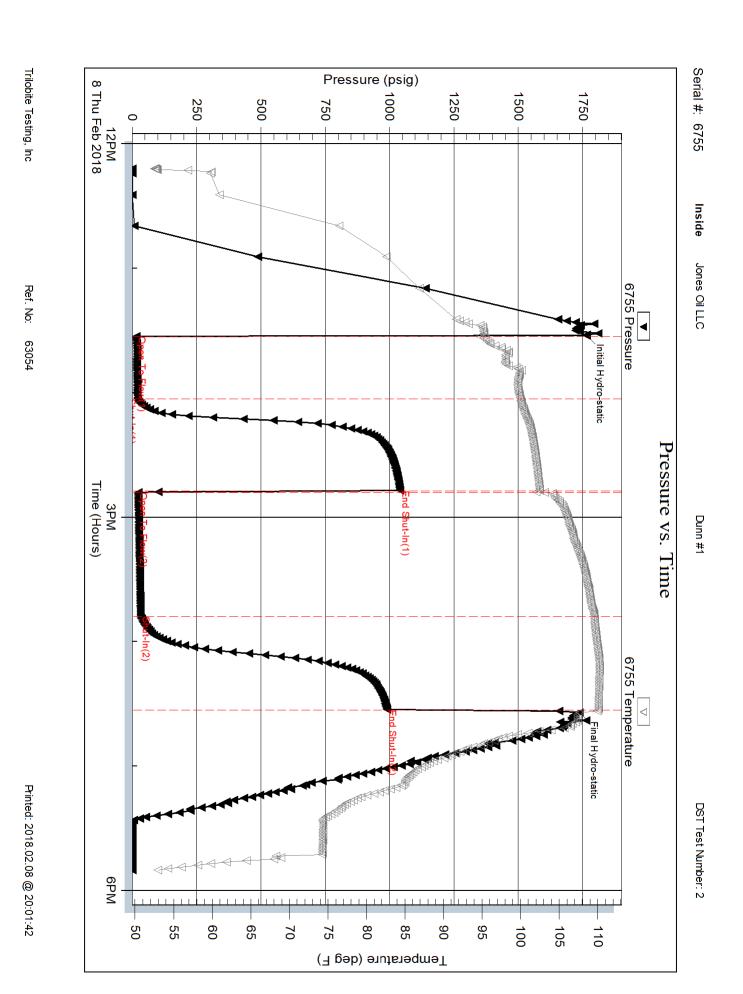
Length ft	Description	Volume bbl
40.00	Muddy Water/ Mud 10% Water 90%	0.561

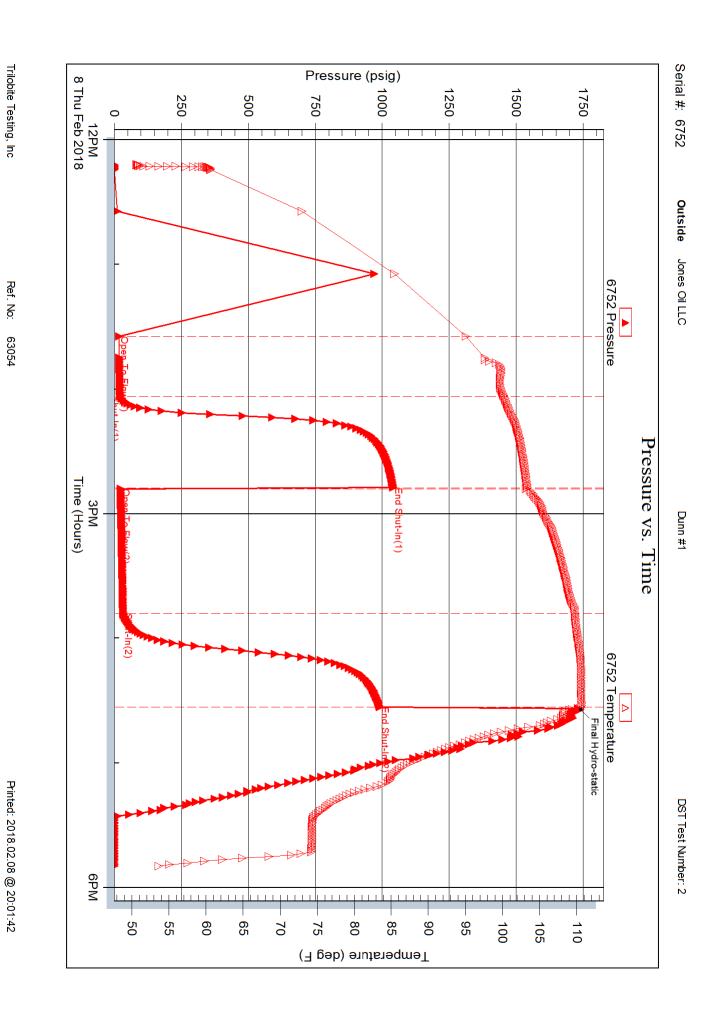
Total Length: 40.00 ft Total Volume: 0.561 bbl

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

Laboratory Name: Laboratory Location:
Recovery Comments: Recovery Resistivity .485 ohms @ 60 deg

Trilobite Testing, Inc Ref. No: 63054 Printed: 2018.02.08 @ 20:01:42







Jones Oil LLC

112 N Gray

67576+1923

St. John Kansas

ATTN: Keaton Jones

24/23S/14W/Stafford

Dunn #1

Tester:

Job Ticket: 63055

DST#: 3

Test Start: 2018.02.09 @ 02:30:00

**GENERAL INFORMATION:** 

Formation: Lansing zone J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:05:17 Time Test Ended: 08:24:02

Interval: 3690.00 ft (KB) To 3715.00 ft (KB) (TVD)

Total Depth: 3715.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Ken Sw inney
72 Great Bend/52

Unit No: 72 Great Bend/52

Reference Elevations: 1943.00 ft (KB)

1936.00 ft (CF) KB to GR/CF: 7.00 ft

Serial #: 6755 Inside

Press@RunDepth: 52.52 psig @ 3711.00 ft (KB) Capacity: psig

 Start Date:
 2018.02.09
 End Date:
 2018.02.09
 Last Calib.:
 2018.02.09

 Start Time:
 02:30:01
 End Time:
 08:24:02
 Time On Btm:
 2018.02.09 @ 04:04:47

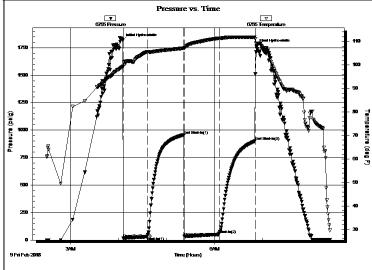
 Time Off Btm:
 2018.02.09 @ 06:51:47

TEST COMMENT: I.F. 30 Mintues/ Blow built to 3 1/2 inches

I.S.I. 45 Minutes/ No blow back

F.F. 45 Minutes/ Blow built to 2 1/2 inches

F.S.I. 45 Minutes/ No blow back



	PRESSURE SUMMARY			
T	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1814.42	99.34	Initial Hydro-static
	1	17.75	99.22	Open To Flow (1)
	31	30.62	105.59	Shut-In(1)
.	77	957.04	107.15	End Shut-In(1)
	77	33.10	107.20	Open To Flow (2)
	121	52.52	111.38	Shut-In(2)
	166	899.55	111.78	End Shut-In(2)
1	167	1763.43	109.19	Final Hydro-static

#### Recovery

Description	Volume (bbl)
Muddy Water/ Mud 15% Water 85%	
	·

Gas Rat	es	
Choke (inches)	Drocoure (poig)	Coo Roto (Mof/d)

Trilobite Testing, Inc Ref. No: 63055 Printed: 2018.02.09 @ 09:28:44



Jones Oil LLC

112 N Gray

67576+1923

St. John Kansas

ATTN: Keaton Jones

24/23S/14W/Stafford

Dunn #1

Tester:

Unit No:

Job Ticket: 63055

DST#: 3

Test Start: 2018.02.09 @ 02:30:00

**GENERAL INFORMATION:** 

Formation: Lansing zone J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:05:17 Time Test Ended: 08:24:02

Interval: 3690.00 ft (KB) To 3715.00 ft (KB) (TVD)

Total Depth: 3715.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Ken Sw inney 72 Great Bend/52

Reference Elevations: 1943.00 ft (KB)

1936.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6752 Outside

Press@RunDepth: 900.30 psig @ 3712.00 ft (KB) Capacity: psig

 Start Date:
 2018.02.09
 End Date:
 2018.02.09
 Last Calib.:
 2018.02.09

 Start Time:
 02:30:01
 End Time:
 08:24:02
 Time On Btm:
 2018.02.09 @ 04:04:47

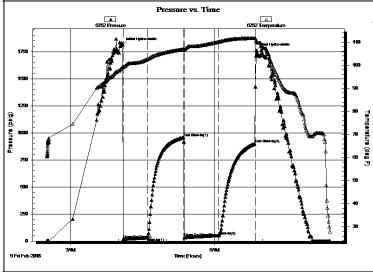
 Time Off Btm:
 2018.02.09 @ 06:51:47

TEST COMMENT: I.F. 30 Mintues/ Blow built to 3 1/2 inches

LST. 45 Minutes/ No blow back

F.F. 45 Minutes/ Blow built to 2 1/2 inches

F.S.I. 45 Minutes/ No blow back



Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1814.58	99.31	Initial Hydro-static
	1	18.48	99.01	Open To Flow (1)
	31	31.23	102.52	Shut-In(1)
	77	957.45	106.82	End Shut-In(1)
	77	34.03	106.57	Open To Flow (2)
	120	51.96	110.11	Shut-In(2)
:	166	900.30	111.64	End Shut-In(2)
'	167	1761.32	110.27	Final Hydro-static

PRESSURE SUMMARY

#### Recovery

Length (ft)	Description	Volume (bbl)
70.00	70.00 Muddy Water/ Mud 15% Water 85%	

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

Trilobite Testing, Inc Ref. No: 63055 Printed: 2018.02.09 @ 09:28:45



**FLUID SUMMARY** 

Jones Oil LLC

112 N Gray

67576+1923

St. John Kansas

ATTN: Keaton Jones

24/23S/14W/Stafford

Dunn #1

Job Ticket: 63055

DST#: 3

Test Start: 2018.02.09 @ 02:30:00

#### **Mud and Cushion Information**

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

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 31000 ppm

Viscosity: 59.00 sec/qt Cushion Volume: bbl

Water Loss: 9.18 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 7000.00 ppm Filter Cake: 1.00 inches

#### **Recovery Information**

#### Recovery Table

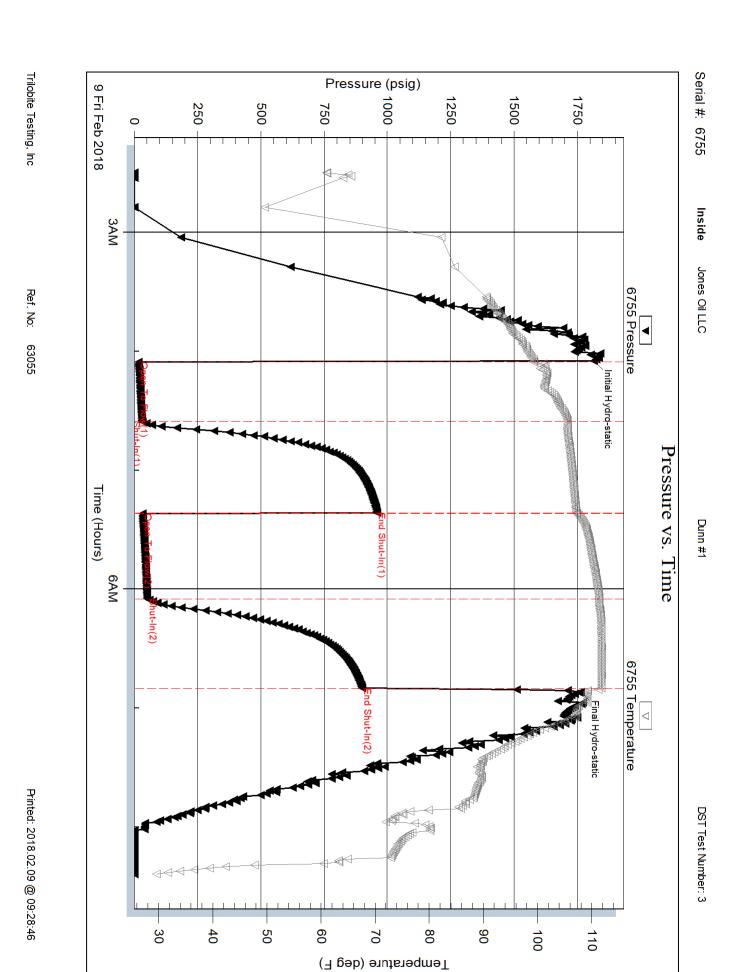
Length ft	Description	Volume bbl
70.00	Muddy Water/ Mud 15% Water 85%	0.982

Total Length: 70.00 ft Total Volume: 0.982 bbl

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

Laboratory Name: Laboratory Location:
Recovery Comments: Recovery Resistivity .480 ohms @ 30 deg.

Trilobite Testing, Inc Ref. No: 63055 Printed: 2018.02.09 @ 09:28:46



Trilobite Testing, Inc

Ref. No:

63055

Printed: 2018.02.09 @ 09:28:46



	INVOIC	NUMBER	
1 of 1	1005777	1718	02/20/2018
PAGE	CUST NO	YARD #	INVOICE DATE

92640024

Pratt

(620) 672-1201

BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

B STEVE JONES L 112 N GRAY L SAINT JOHN

KS US 67576

O ATTN:

LEASE NAME

Dunn 1

0 LOCATION В

Stafford

COUNTY S

STATE

KS

INVOICE TOTAL

Т

JOB DESCRIPTION Cement-New Well Casing/Pi

4,070.35

JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE	ORDER NO.		TE	RMS	DUE I	DATE
41088965	19843				Net -	30 days	03/22/	2018
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or Service Date	es: 02/11/2018 to	02/11/2018						
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171816332A Cer Cement PTA	ment-New Well Casing/	Pi 02/11/2018						
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60/40 POZ Cement Gel			220.00 380.00			6.60 0.14		1,452.0 52.2
"Wooden Cmt Plu	ıg, 8 5/8"""		1.00			88.00		88
	(PU, cars one way)"		30.00			2.48		74
Heavy Equipment			60.00	MI		4.13		247
	Del. Chgs., per ton mil		285.00	EA		1.37		391
Blending & Mixing			220.00			0.77	,	169
Depth Charge; 40			1.00	EA .		1,386.00		1,386
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10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

## FIELD SERVICE TICKET 1718 16332 A

PRESSURE PUMPING & WIRELINE DATE TICKET NO. OLD PROD INJ ☐ WDW CUSTOMER ORDER NO. -18 DISTRICT PLUTT Stove Jones Dunn CUSTOMER LEASE WELL NO. STAFFUID STATE **ADDRESS** COUNTY SERVICE CREW MATTAI CITY STATE 1.1207 Pluy AUTHORIZED BY JOB TYPE **EQUIPMENT#** HRS EQUIPMENT# HRS EQUIPMENT# HRS BATE AM TRUCK CALLED ARRIVED AT JOB AM PM START OPERATION AM 9918 FINISH OPERATION AM RELEASED MILES FROM STATION TO WELL

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP. SIGNED:

				(WELL OWN	ER, OPERATOR, O	CONT	RACTOR OR AG	ENT)
ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICE	S USED	UNIT	QUANTITY	UNIT PRICE	E	\$ AMOUN	T
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SERVICE REPRESENTATIVE MIKE MUTTAL

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



## FIELD SERVICE TICKET 1718 16332 A

		SERVICES Phon PING & WIRELINE	ne 620-672-	-1201			DATE	TICKET NO			e ve a
DATE OF JOB	11-18 0	DISTRICT ( )			NEW WELL	OLD P	PROD INJ	□ WDW	□ CU OR	STOMER DER NO.:	
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ADDRESS	grade George de la de- desa de Compaña e la compaña				COUNTY	7 27 6	s state	STATE	N		
CITY		STATE		ia place	SERVICE C	REW /	Arral	1000 310	Francia -	17.0	
AUTHORIZED B	Υ	are the track that we will be the second	Andree promise		JOB TYPE:	2.4	1 4	lug-100			
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	3859 H-1411				The state of the s		MILES FROM	M STATION TO	WELL	30	
products, and/or sur	oplies includes all	execute this contract as an ago of and only those terms and co to the written consent of an office	onditions appe	earing on	the front and bac	k of this do	cument. No addi	tional or substitute	terms a	nd/or conditi	ons shall
						S	(WELL OWN	ER, OPERATOR,	CONTRA	ACTOR OR	AGENT)
ITEM/PRICE REF. NO.	M	MATERIAL, EQUIPMENT A	AND SERVIC	CES USI		UNIT		ER, OPERATOR, UNIT PRIC	1000	\$ AMOL	
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REF. NO.	N COL	A Comment of the second of the	500		ED:	UNIT SA	(WELL OWN	UNIT PRIC	1000	\$ AMOU	JNT J (/)
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SERVICE REPRESENTATIVE THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

MATERIALS

SERVICE & EQUIPMENT

FIELD SERVICE ORDER NO.

CHEMICAL / ACID DATA:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

%TAX ON \$

%TAX ON \$

TOTAL

WILL



## TREATMENT REPORT

Customer	DNIES	oil	1/0	Lease No.					Date	-	11 10
Lease	Dunn			.Well #					1	2 -	-11-18
Field Order #	Station	PIaT	r	1 1 1 1 1 1 1 1 1		Casing	Dept	4003	County	STA	FF010 State
Type Job _	-42	Ping 1	0 Ab	noon			Formatio			Le	egal Description
PIPE	DATA			NG DATA	1	FLUID US	SED		Т	REATM	ENT RESUME
Casing Size	Tubing Size	Shots/F	t		Acid	CMT	2205	54,60	RATE	PBESS	ISIP
Depthy UU3	Depth	From	Bury	Го	Pre			Max	Z. mary		5 Min.
Volume	Volume	From	1	Го	Pad			Min		To I Vi	10 Min.
Max Press	Max Press	From		Го	Frac			Avg			15 Min.
Well Connection	Annulus Vo	_	1	Го			2000/10	HHP Use	d Ava	Senoy	Annulus Pressure
Plug Depth	Packer Dep	From	7	Го	Flus	h	711,15250	Gas Volu	me	443	Total Load
Customer Repre	esentative (	loug Bi	ndig	Station	n Mana	iger We	sterma	411	Treat	er M	77741
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10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-365



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1005777	1718	02/19/2018
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Pratt

(620) 672-1201

B STEVE JONES 112 N GRAY L SAINT JOHN

KS US 67576 T ATTN:

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LOCATION

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JOB DESCRIPTION Cement-New Well Casing/Pi

JOB CONTACT

јов #	EQUIPMENT #	PURCHASE	ORDER NO.		TE	RMS	DUE	DATE
41088676	19843			and the second second	Net -	30 days	03/21/	2018
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041088676		100 mg - 110 mg						
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Common Cement			200.00			8.80		1,760.00
Celloflake		* * * * * * * * * * * * * * * * * * * *	100.00			2.04		203.50
Calcium Chloride			940.00			0.58		542.8
"Top Rubber Cm			1.00			123.75		123
	g (PU, cars one way)"		30.00		1	° 2.48		74
Heavy Equipment			60.00			4.13		247
	Del. Chgs., per ton mil		564.00			1.38		775
	g Service Charge		400.00			0.77		308
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10244 NE Hwy. P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

## FIELD SERVICE TICKET 1718 16179 A

DATE	TICKET	NO.		

DATE OF 2/3	12018 DI	STRICT PESSA, K	2.5		LPL = F	PROD INJ	J WD	v	USTOMER RDER NO.:				
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SERVICE REPRESENTATIVE FIELD SERVICE ORDER NO. THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY

WELL OWNER OPERATOR CONTRACTOR OR AGENT!



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

## FIELD SERVICE TICKET 1718 16179 A

DATE OF 2/3	12018	DI	STRICT POSSER			MEN S		PROD [INJ	□ WDW □	CUSTOMER ORDER NO.:					
CUSTOMER -	steve	5	ones			LEASE De	inn			WELL NO	. 1				
ADDRESS		Aller or street				COUNTY 5	198	leia	STATE K	5	Thinks.				
CITY			STATE				-AIPE		men	me					
AUTHORIZED E	BY			3		JOB TYPE: 242/84 SUCLEGE									
EQUIPMENT		IRS	EQUIPMENT#	HRS	EQU	JIPMENT#	HRS	TRUCK CALL			IME				
9843								ARRIVED AT		50	- 1				
9918		12	the sale of the					START OPER		/3 QM 2	oc				
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REPRESENTATIVE

THE ABOVE MATERIAL AND SERVICE
ORDERED BY CUSTOMER AND RECEIVED BY

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



# TREATMENT REPORT

Customer	nes O	192	24		ease No.						2	101	1		
Lease (	<b>1</b> 0	Andrew Andrews	and the same of th	V	Vell # /					-	-/		201		
Field Order#	Station	Pra	2+1KS				Casing	5/8 Depth	839	County	5+9	iffo	16	State	°)es
Type Job Z	42/8	-5/0	Susf	see				Formation	TD-6.	39		Legal D	Description	24-2	235-14
	DATA		ERFORA		DATA		FLUID U	SED		TI	REA	TMENT	RESUM	E	
Casinoska	Tubing Siz	ze Sh	ots/Ft	T		Acid	,			RATE	PRE	SS	ISIP		
Depth 639	Depth	Fro	om	То		Pre	Pad		Max				5 Min.		
Volume46,7	Volume	Fro	om	То	,	Pad			Min				10 Min.		
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Well Connection	Annulus V	ol. Fro	om	То					HHP Use	d			Annulus	s Pressu	re
Plug/Depti	Packer De	Fro	om	То		Flus	in W97	er	Gas Volum	me			Total Lo	ad	
Customer Repre	esentative (	Dovo	3		Station	Mana	ager Jus	tin hes	reimsn	Treate	er D	9610	Fran	Klin	-
	92911	849		343	1985		19518	*							
Driver	Darin	Ea			Clym	er	Clymer								
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