KOLAR Document ID: 1465830

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 Approved by: Date:					

KOLAR Document ID: 1465830

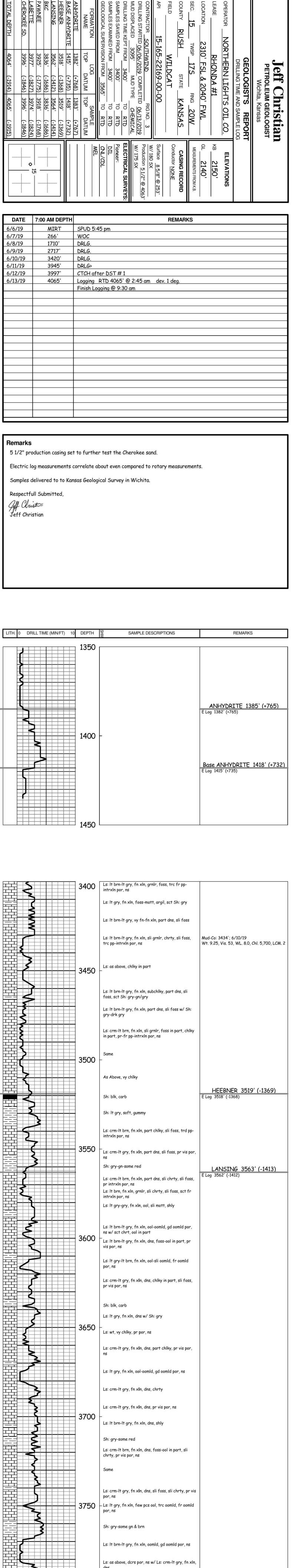
#### Page Two

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	f Cement # Sacks Used Type and Percent Add			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.		Mcf Water 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	Northern Lights Oil Company, LLC		
Well Name	RHONDA 1		
Doc ID	1465830		

#### 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	265	common	180	2%gel, 3%cc
Production	7.875	5.5	14	4063	common		10%salt, 5% gilsonite



SEC.

15

MUD DISPLACED

LEASE

LOCATION

**OPERATOR** 

PAWNEE

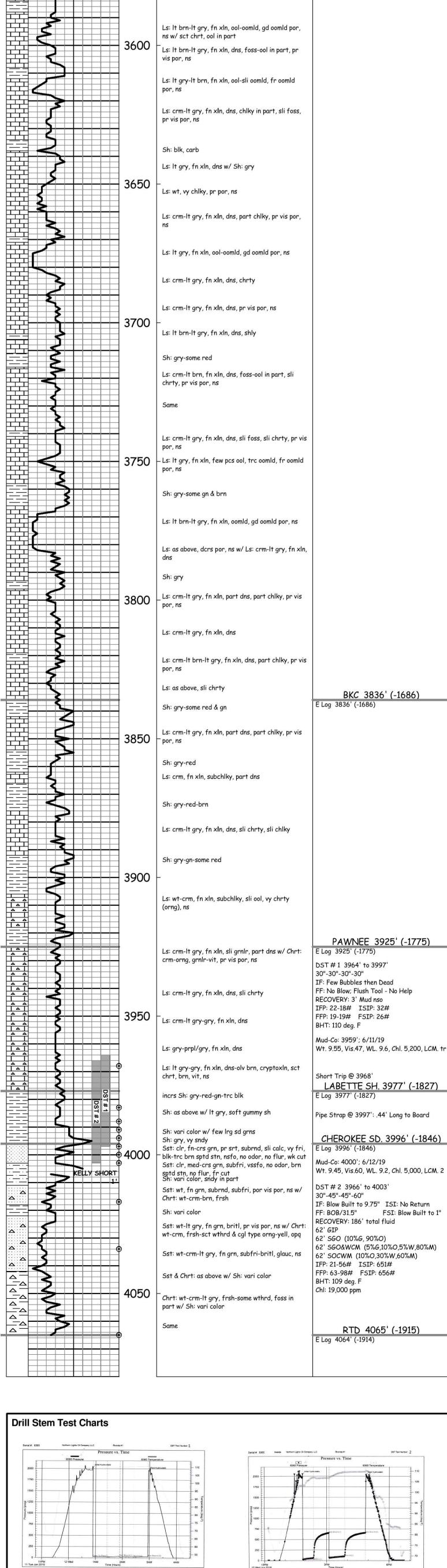
ANHYDRITE

FORMATION NAME

HEEBNER ANSING

CHEROKEE SD

TOTAL DEPTH



Printed: 2019.06.12 @ 04.28.46



# RILOBITE ESTING INC.

### **Test Ticket**

NO. 65672

4/10	515 Commerce Parkway	• Hays, Kansas 67	601		Andrew Control of the	
Mall Name & No. Phy	onda #1		Test No	1 Date	11 June	- 19
Company Nosther	a Lights Oil C	Smeany LL	C Elevation	KB_		GL
Address 320 W	Central Suis	Le B Ando	ver KS 670	0210164		
Address Date Tef	f Christian		Rig Sout	thwind Ric	3 8	
Location See	Twp	Rge. 204/	Co. Rush	/	State K	5
Interval Tested	3765-3190.	Zone Tested	Cherokee 297		. 9.	55
Anchor Length	7610		397			47
Top Packer Depth	3760	Drill Collars Ru	n genetation	VIS		9.6
Bottom Packer Depth		Wt. Pipe Run_	3-200 ppm			T
Total Depth	3998			System LCM _		
/ /	Far babble	sat appa	1 HEN OGGG			
ISI NO SOO	Back K	- 115			- al.	
Ff Dead /	Flush tool	no harp				
working .	ow Lack		%gas	%oil	%water	100%mud
	et of Mud		%gas	%oil	%water	%mud
	et of		%gas	%oil	%water	%mud
	et of			%oil	%water	
	et of		%gas	%oil	%water	
	et of		%gas API RW@			
	BHT 110	1			10	2:16 pm
(A) Initial Hydrostatic	m, mg			T-Started	11:	02 pm
(B) First Initial Flow	19	□ Jars		T-Open	12:	5-4am
(C) First Final Flow	2-7	Safety Joint _		T-Pulled	2:5	54am
(D) Initial Shut-In				T-Out	4:1	1 am
(E) Second Initial Flow	1 69		oy			
(F) Second Final Flow			80	-	<del>/</del>	
(G) Final Shut-In		A seemed in the				
(H) Final Hydrostatic	1961				1.1-11-11	
	200		•			
Initial Open	30					
Initial Shut-In	2		er			
Final Flow	30					
Final Shut-In	30			<del>7</del>		
		Sub lotal	Our Representative	_ WIP/DST DIS	Part of the same o	
			UNIT PHOTESHINAUVE	and the first the first		



#### DRILL STEM TEST REPORT

Northern Lights Oil Company LLC

15/17S/20W/Rush

320 W Central

Suite B

Andover, KS 67002+0164 ATTN: Jeff Christian

Rhonda #1

Job Ticket: 65672

DST#:1

Test Start: 2019.06.11 @ 23:02:00

#### GENERAL INFORMATION:

Time Tool Opened: 00:54:02

Time Test Ended: 04:16:02

Formation:

**Cherokee Sand** 

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ken Swinney

Unit No:

72 Hays 80

Reference Elevations:

2150.00 ft (KB)

2140.00 ft (CF)

psig

KB to GR/CF:

10.00 ft

Interval: Total Depth: 3965.00 ft (KB) To 3998.00 ft (KB) (TVD) 3998.00 ft (KB) (TVD)

Hole Diameter:

7.80 inches Hole Condition: Fair

Serial #: 8365

Press@RunDepth:

19.51 psig @

ft (KB)

2019.06.12

Last Calib .:

Capacity:

Start Date: Start Time:

2019.06.11 23:02:00 End Date: End Time:

04:16:02

Time On Btm:

2019.06.12 2019.06.12 @ 00:53:32

Time Off Btm:

2019.06.12 @ 02:57:47

TEST COMMENT: F

30 Minutes/ Few bubbles at open then dead

30 Minutes/ No blow back ISI 30 Minutes/ Dead/ Flush tool no help

FF 30 Minutes/ No blow back **FSI** 

Pressure vs. Time

PRESSURE	SUMMARY

1		PF	RESSUR	E SUMMART	
1	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
5	0	2027.42	109.65	Initial Hydro-static	
	1	22.16	109.28	Open To Flow (1)	
	32	18.05	109.54		
	61	32.08	109.80		
ᇕ	61	19.21	109.82	Open To Flow (2)	
, al	91	19.51	110.29	Shut-In(2)	
Temperature (deg F)	124	26.40	110.61	End Shut-In(2)	
5 J	125	1961.09	110.87	Final Hydro-static	
9					١
15					١
300			1		١
95			1		١
					١
					1
					١

#### Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.04

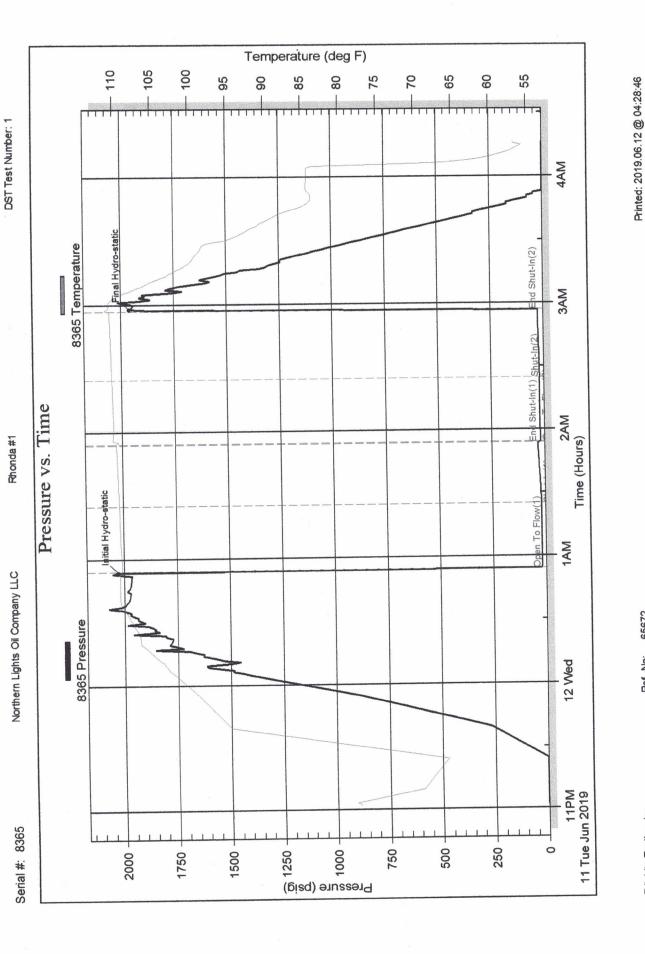
#### **Gas Rates**

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

Trilobite Testing, Inc

Ref. No: 65672

Printed: 2019.06.12 @ 04:28:46





# RILOBITE ESTING INC.

Test Ticket

NO. 65673

1515 Commerce Parkway · Hays, Kansas 67601

4/10 Man	
Well Name & No. Rhanda #1	
Company Northern Lights 0.4	Company LLC Elevation 2150 KB 2140 GL
Address 320 W Central Suite	B Andover KS 67007+0164
Co. Rep/Geo. Tefe Christian	
Location: Sec. 15 Twp 775	Rge. 200 Co. Rush State RS
Interval Tested 3966-4003	Zone Tested Cheroker Sand
Anchor Length3 7	Drill Pipe Run 3 9 7 / Mud Wt 9 . 4 5
Top Packer Depth	Drill Collars Run Vis
Bottom Packer Depth39 66	
Total Depth 4063	Chlorides 5 000ppm System LCM 7 4
Blow Description IF Blow built to	93/4 inches
ISI NO Sbul back	
FF Blow to BOB in 31	'à minutes Total build 16 inches
FSI I inch blow back	
Rec 67 Feet of 60	(2 10 %gas 90%oil %water %m
Rec62_ Feet of _6WOCM	6.2 3 5 %gas 10 %oil 5 %water 80 %m
Rec 62 Feet of OCWM	6.2 18 %gas 10%oil 30%water 60%m
Rec 62 Feet of 6IP	2 %gas %oil %water %rr
Rec Feet of	%gas %oil %water %m
Rec Total 186 BHT 109	Gravity API RW (361@67°F Chlorides19000p
(A) Initial Hydrostatic 2049	☐ Test T-On Location
(B) First Initial Flow	Jars T-Started 12:11 pm
(C) First Final Flow	Safety Joint
(D) Initial Shut-In651	T-Pulled 7.5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
(E) Second Initial Flow	Hourly Standby Comments
(F) Second Final Flow	Mileage 80
(G) Final Shut-In 656	□ Sampler
(H) Final_Hydrostatic 2035	Straddle DEM Tool
	☐ Shale Packer ☐ Ruined Shale Packer
Initial Open30	☐ Extra Packer ☐ Ruined Packer ☐
Initial Shut-In45	Extra Recorder
Final Flow	Day Standby Sub Total
Final Shut-In	_ Accessibility Total
	Sub Total MP/DST Disc't
2 801	



#### DRILL STEM TEST REPORT

Northern Lights Oil Company LLC

15/17S/20W/Rush

320 W Central Suite B

Rhonda #1 Job Ticket: 65673

**DST#: 2** 

Andover, KS 67002+0164 ATTN: Jeff Christian

Test Start: 2019.06.12 @ 12:11:00

#### GENERAL INFORMATION:

Formation:

**Cherokee Sand** 

Deviated:

Whipstock: No

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 13:50:47 Time Test Ended: 18:43:02 Tester:

Unit No:

Ken Swinney

72 Hays/80

Reference Bevations:

2150.00 ft (KB)

2140.00 ft (CF)

psig

KB to GR/CF:

10.00 ft

Interval: Total Depth: 3966.00 ft (KB) To 4003.00 ft (KB) (TVD) 4003.00 ft (KB) (TVD)

Hole Diameter:

7.80 inches Hole Condition: Fair

Serial #: 8365

Inside

ISI

FF

98.75 psig @

3999.00 ft (KB)

2019.06.12

Capacity:

Last Calib .:

2019.06.12

Start Date: Start Time:

Press@RunDepth:

2019.06.12 12:11:00

End Date: End Time:

18:43:02

Time On Btm:

2019.06.12 @ 13:50:17

Time Off Btm:

2019.06.12 @ 16:53:17

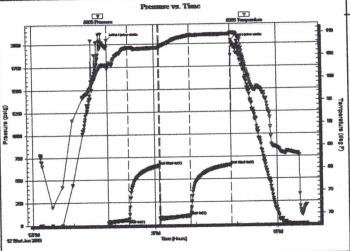
TEST COMMENT: F

30 Minutes/ Blow built to 9 3/4 inches

45 Minutes/ No blow back

45 Minutes/ Blow to BOB in 31 1/2 minutes/ Total build 16 inches

60 Minutes/ 1 inch blow back FSI



T		PF	RESSUR	E SUMMARY
Temperature (deg F)	Time (Min.) 0 1 31 76 77 122 182 183	Pressure (psig) 2049.07 21.64 56.74 651.95 63.00 98.75 656.49 2035.11	Temp (deg F) 103.00 102.17 106.84 106.75 109.48 109.70 109.97	Annotation  Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2) Final Hydro-static

#### Recovery

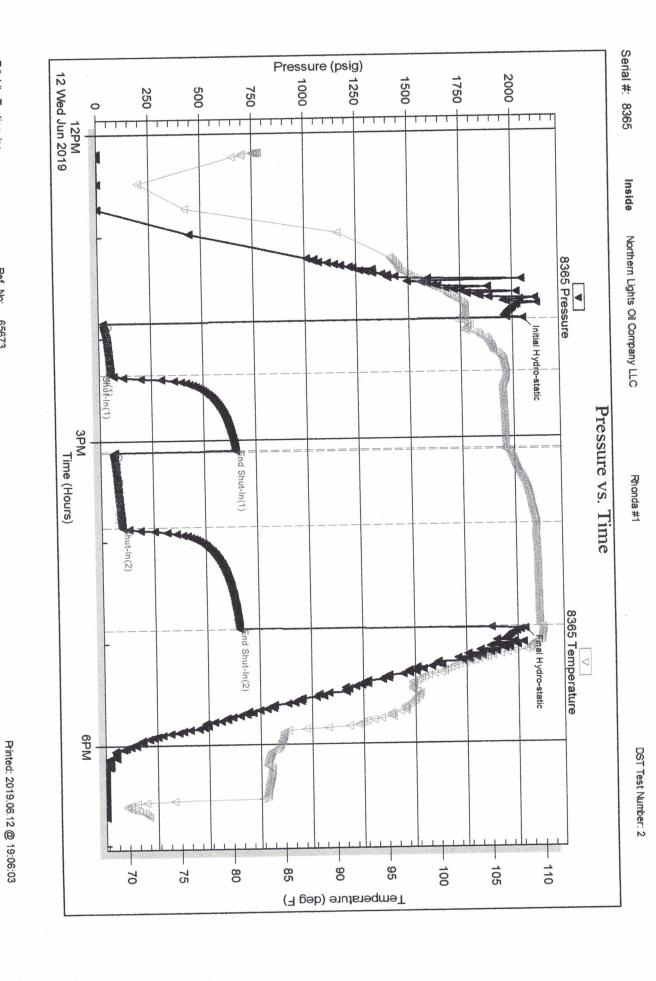
	Description	Volume (bbl)
62.00	GO /G 10% O 90%	0.87
62.00	GWOCW G 5% W 5% O 10% M 80%	0.87
62.00	OCWM/ O 10% W 30% M 60%	0.87
0.00	62 feet GIP	0.00

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

Trilobite Testing, Inc.

Ref. No: 65673

Printed: 2019.06.12 @ 19:06:03



Trilobite Testing, Inc

Ref. No:

65673

## 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. 1296

1-19	Sec.	Twp.	Range	2	County	State	On Location	Finish 12 05 Am	
Date O	17	11	00		and white		11 2 11 11	10,00	
Khinda	Locatio				ion Middle (CV - 30m+1871) of the color				
Lease Million	0 1	H 5	Well No.		To Quality Qi	Iwell Cementing, Inc.			
Contractor Doughou	Sind!	177 5			You are here	by requested to rent	cementing equipmen	t and furnish	
Type Job			2///		cementer and helper to assist owner or contractor to do work as listed.				
Hole Size		T.D.	0/66		Charge Northern Longs				
Csg. 33/8		Depth	266		Street				
Tbg. Size		Depth			City State				
Tool		Depth				s done to satisfaction a	nd supervision of owner	and the second second	
Cement Left in Csg.	5'	Shoe J	loint 15		Cement Amo	ount Ordered 180	80/20 3% (	( 3 6cl	
Meas Line		Displac	ce 16	1365					
	EQUIPMI	ENT			Common				
Pumptrk No. Cemen Helper		atild	3 Rassassassassassassassassassassassassass		Poz. Mix			The second secon	
Bulktrk No. Driver	mg	KIL			Gel.			144 (10 - 1	
Bulktrk No. Driver	Koc	X			Calcium				
JOB SEF	RVICES 8	& REMA	ARKS		Hulls				
Remarks:	did	1	in what		Salt				
Rat Hole College				Flowseal					
Mouse Hole					Kol-Seal				
Centralizers				Mud CLR 48					
Baskets					CFL-117 or CD110 CAF 38				
D/V or Port Collar					Sand				
		7	100		Handling				
					Mileage				
					FLOAT EQUIPMENT				
					Guide Shoe				
					Centralizer				
					Baskets				
GENERAL AND THE					AFU Inserts				
1 State 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			日日日 日	7.5	Float Shoe	罗烈烈族不乱	TA COLD II		
					Latch Down				
			The same	7	7 60				
					Pumptrk Charge				
					Mileage				
							Tax	<	
	1 3	7 1					Discoun	t	
X Signature A Signature	7 K8	sol d	H				Total Charge	9	
<u> </u>			NE SERVICE DE LA COMPANION DE						

### 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.

Finish State On Location Sec. Twp. Range County Date Location M Well No. Owner Lease To Quality Oilwell Cementing, Inc. Contractor You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Type Job Charge To T.D. Hole Size Depth Csg. Street Depth State Tbg. Size City The above was done to satisfaction and supervision of owner agent or contractor. Tool Depth Cement Amount Ordered Cement Left in Csg Shoe Joint Displace Meas Line 65 EQUIPMENT Common No. Cementer Helper Poz. Mix Pumptrk No. Driver Gel. Bulktrk Driver No. Driver Calcium Bulktrk Driver **JOB SERVICES & REMARKS** Hulls Salt Remarks: Flowseal Rat Hole Kol-Seal Mouse Hole Mud CLR 48 Centralizers 4 CFL-117 or CD110 CAF 38 Baskets Sand D/V or Port Collar Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets **AFU Inserts** Float Shoe Latch Down Pumptrk Charge Mileage Tax Discount Total Charge X Signature

# 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. 1300

/ 11/ 10	Sec.	Twp.	Range	0	County	State	On Location	Finish	
Date 6	15	17	90	Ku	5/1	NS		5:15 AV	
0, 1				Location	on M.C.	actes - 50	At Side of	tions, at	
Lease Khonda Well No.					Owner 1/5	E/TOF		1,140*	
Contractor Southward 118					To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish				
					cementer and helper to assist owner or contractor to do work as listed.				
Hole Size	Thought the state of the state			Charge Northern Lants					
Csg. 51/ No.	14H	Depth	40661	1	Street	)			
Tbg. Size		Depth			City		State	The state of the s	
Tool DO Tool	4162	Depth	1394"		The above wa	s done to satisfaction ar	d supervision of owner		
Cement Left in Csg.		Shoe J	oint			ount Ordered 260	80/20 OMD	C YET #FD SC	
Meas Line		Displac	e 34 13	5	Su gal	mud Clear 4	8		
	EQUIPM	IENT			Common				
Pumptrk No. Cemer Helper	nter				Poz. Mix				
Bulktrk No. Driver	Down				Gel.			-k	
Bulktrk No. Driver	KI	(4			Calcium				
JOB SEI	RVICES	& REMA	RKS		Hulls				
Remarks:					Salt				
Rat Hole					Flowseal				
Mouse Hole 26 5					Kol-Seal				
Centralizers					Mud CLR 48				
Baskets					CFL-117 or CD110 CAF 38				
D/V or Port Collar	4	1163	/ P 5	to ogal	Sand				
Breche Con	1.06	6	Klun Rd	1.10	Handling				
4 Moureles	Can	en'	15/16	824	Mileage				
Charos Out	No.	Shi	- 6.1.2 18	50	FLOAT EQUIPMENT				
Robert Dun	1 4	Sitter	(d W) 3	100	Guide Shoe				
Was Roll	4	101/ mil	1.46	Centralizer					
					Baskets				
1024 000	50	(t)		AFU Inserts					
She to Free	5 140	t on		Float Shoe					
					Latch Down				
To Classed						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Ceased del Countre									
				Pumptrk Charge					
					Mileage		- MA		
							Tax		
						Discount			
X Signature				* .			Total Charge		