

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1166740

Form ACO-1 June 2009 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. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from Cast / West Line of Section
Contact Person:	
Phone: ()	
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used?
OG GSW Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	
Well Name:	Drilling Fluid Management Plan     (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SW	Chloride content: ppm Fluid volume: bbls
Conv. to GSW	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	
ENHR Permit #:	Quarter Sec TwpS. R East West
GSW Permit #:	County: Permit #:
	_
Spud Date or         Date Reached TD         Completion Date or           Recompletion Date         Recompletion Date         Recompletion Date	

#### 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
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

	Side Two	1166740
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No	L Nan	-	on (Top), Depth an	id Datum Top	Datum
Samples Sent to Geolog	ical Survey	Yes No					
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	YesNoYesNoYesNo					
List All E. Logs Run:							
		CASIN		ew Used			
		Report all strings se	et-conductor, surface, in	termediate, product	tion, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot		PERFORATION Specify For		RD - Bridge P Each Interval I		e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	:e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed P	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit A	Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Subr	nit ACO	-18.)		Other (Specify)						

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



# RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

# **Test Ticket**

NO. 53401

4/10						MAN STOLEN COLUMN STOLEN					or some rest of the state of the		
Well Name & No	Goin	g1. \$	#1			Т	est No.	1	_	Date	7-1.	2-1	3
Company							levation	22	52	KB_	22	47	GL
Address								670	102				
Co. Rep / Geo.								Me llo	- 2	1			
Location: Sec.											State	ks	
Interval Tested	3521		355	0	Zone Tested _	LA	$\langle \langle \rangle$	H					
Anchor Length					Drill Pipe Run		201			Mud Wt	9.	/	
Top Packer Depth					Drill Collars Ru	un <u>2</u>	98			Vis	55	5	
Bottom Packer Depth					Wt. Pipe Run_	0				WL	6.	4	
Total Depth					Chlorides					LCM	/		
Blow Description													
	SI N	2 Blou	1										
(	F. B.	11 1 . 2	2''										
BI	1. No.	Blow							- Andrews				
Rec 8	Feet of	MCC	)				%gas	65	%oil		%water	35	%muc
Rec 120	Feet of	ma	/				%gas		%oil	70	%water	30	%mud
Rec	Feet of						%gas		%oil		%water		%mud
Rec	Feet of						%gas		%oil		%water		%mud
Rec							%gas		%oil		%water		%muc
Rec Total 12	8	ВНТ	106	Grav	vity	API R	W . 190	@ /	12°	- Chloric	des 40	100	ppm
(A) Initial Hydrostatic_	1	723			Test				T-On L	ocation _	11:	45	
(B) First Initial Flow		10			Jars				T-Start	ed	B.C	00	
(C) First Final Flow					Safety Joint					۱		20	
(D) Initial Shut-In		1212			Circ Sub	A/A			T-Pulle	d	8:00	2	
(E) Second Initial Flow	v	46			Hourly Standb				T-Out		9.55	>	
(F) Second Final Flow	/	77			Mileage				Comm	ents			
(G) Final Shut-In		1164			Sampler								
(H) Final Hydrostatic_	/	1718			Straddle					ined Sha	le Packer		
	_				Shale Packer_						ker		
Initial Open	30	2 			Extra Packer _						S		
Initial Shut-In	45				Extra Recorde						5		
Final Flow	45				Day Standby _								
Final Shut-In	60				Accessibility _						't		
					b Total					. 11	11		

#### Approved By \_

Our Representative\_

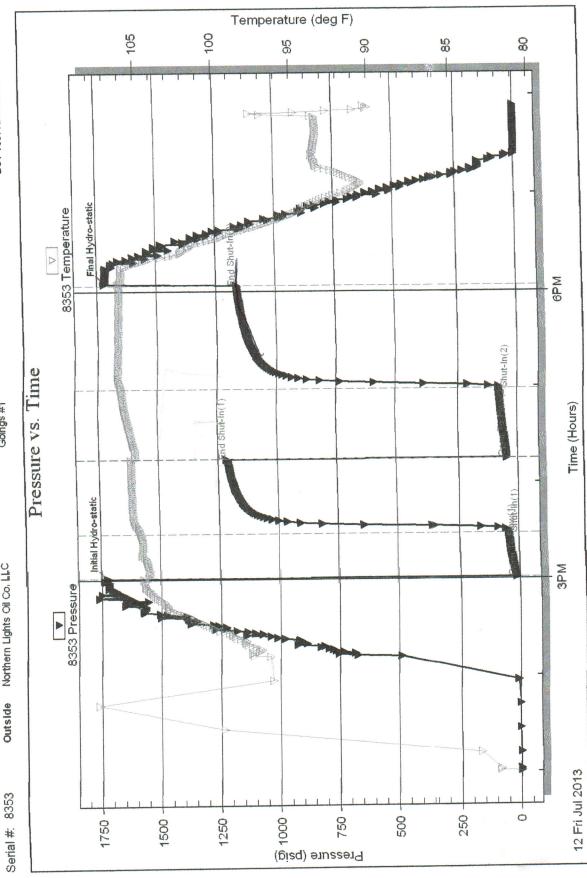
Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

	DRILL STEM TEST	REPOR	T			
RILOBITE	Northern Wights Oil Co. LLC		20-55-23			
TESTING, MC	PO Box 1664. Andover I <b>Ks 67002</b>		Job Tickel		DST#: 1	
	ATTN: Jieff Christenson		Test Star	E 2013.0	07.12 @ 13:00:00	
GENERAL INFORMATION: Formation: Lan H Deviated: No Whipstock: Time Tool Opened: 15:01:00 Time Test Ended: 19:53:45	ft (KB)		Test Typ Tester: Unit No: Referen	<b>vviit</b> 44	oventional Bottom He bur Steinbeck tions: 2252.00	ole (Initial) ) ft (KB)
Tatal Dopth: 3550.00 ft (KB)	<b>3550.00 ft (KB) (TVD)</b> (TVD) ole Condition: <b>Fair</b>		T CIC, CIT		2247.0	0 ft(CF) 0 ft
Serial #:         8353         Outside           Press@RunDepth:         76.81 psi           Start Date:         2013.07.1           Start Time:         13:00:0	2 Endl Date:	<b>2013.07.12</b> 19:53:45	Capacity: Last Calib.: Time On Btm Time Off Btr		8000.0 2013.07.7 013.07.12 @ 15:00:3 013.07.12 @ 18:05:1	30
TEST COMMENT: 30 IF; Built to 45 ISI; No Blo 45 FF; Built to 60 FSI; No Blo	w o 2"				E CUMMARY	
Pressure	e vs. Time			the state of the s	E SUMMARY Annotation	
		1 28 74 75 118 183 185	(psig)	104.30 104.95 105.49 105.27 106.07	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)	
Reco	/erv			Ga	s Rates	
Length (ft) Description				Choke (	inches) Pressure (psig)	Gas Rate (Mcf/d)
Langer (tr)         Discription           120.00         MCW 30%M 70%W           8.00         MCO 35%M 65%O						, ,
Trilobite Testing, Inc	Reff. No: 53401			Printed	: 2013.07.12 @ 20:	10:57





Goings #1



Printed: 2013.07.12 @ 20:10:58

53401 Ref. No:

Trilobite Testing, Inc

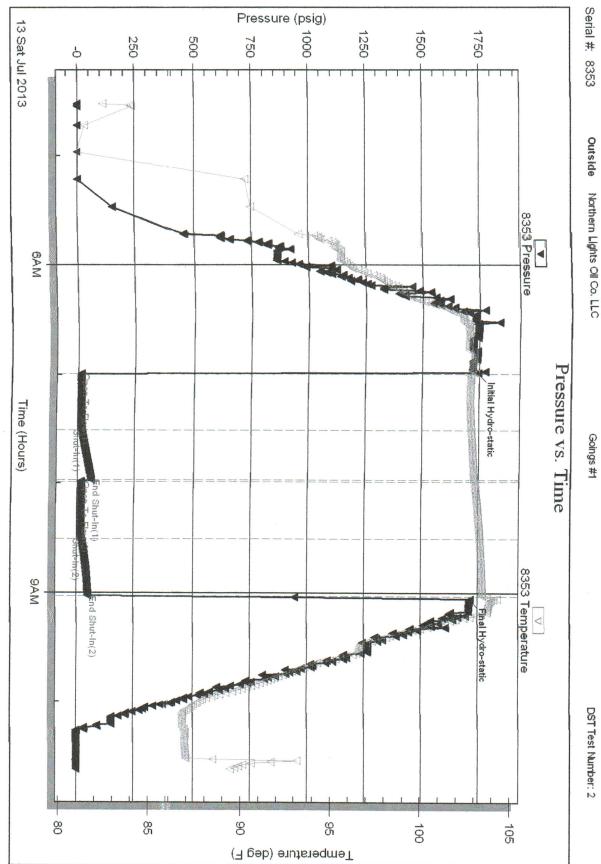
RILOBITE //		Test Ticket	
ESTING INC.		NO. 53402	
4/10 1515 Commerce Parkway	<ul> <li>Hays, Kansas 67601</li> </ul>		
( #1	Test No	2 Date 7-13-13	
Well Name & No. <u>Goings</u>	Test No.	0212 2217	GL
Company / Orthurn Lights Uit	<u>Co. LLC</u> Elevation	(1007)	GL
Address Dox	Andoviv Ks	2 11 1	
Co. Rep/Geo. Jet Christins		Nactan State KS	Real Providence
Location: Sec Twp5	Rge Co	Vorton State <u>NS</u>	
Interval Tested 3549 3580	Zone Tested Lan	J	
Anchor Length3/	_ Drill Pipe Run	Mud Wt	
Top Packer Depth3544	Drill Collars Run 298	Vis <u>56</u>	
Bottom Packer Depth3549	Wt. Pipe Run	wLG. 4	
Total Depth 3 580	Chlorides 700	ppm System LCM	
Blow Description // Blow			
151; No Blow			
FF; No How			
- FSI; NO Blow			
Rec Feet of Mud	%gas	%oil %water 6	%mud
Rec Feet of	%gas	%oil %water of	%mud
Rec Feet of	%gas	%oil %water	%mud
Rec Feet of	%gas	%oil %water 9	%mud
Rec Feet of	%gas	%oil %water 9	%mud
Rec Total BHT 104°	Gravity API RW	@°F Chlorides	ppm
(A) Initial Hydrostatic743	Test	T-On Location 4:20	
(B) First Initial Flow12	Jars		
(C) First Final Flow	Safety Joint	T-Open7.00	
(D) Initial Shut-In60	Circ Sub	T-Pulled 7.00	
(E) Second Initial Flow15	Hourly Standby	T-Out	
(F) Second Final Flow	Mileage 100 KT	Comments	
(G) Final Shut-In	Sampler		
(H) Final Hydrostatic	Straddle	Ruined Shale Packer	
	Shale Packer		
Initial Open30	Extra Packer		
Initial Shut-In30	Extra Recorder		
Final Flow 30	Day Standby		
Final Shut-In 30	Accessibility	MP/DST Disc't	
	Sub Total		
		A Lill Ht. Kall	

	Vorthern Lijghts Oil Co. LLC			s-23w			
TECTING ING							
	PO Box 1694 Andover KKs 67002			1 <b>gs #1</b> icket: 534	402	DST#:2	
	ATTN: Jeeff Christenson				13.07.13 @		
SENERAL INFORMATION:		and a second			a a fair an		unation province from the second second
Formation: Lan J Deviated: No Whipstock: Time Tool Opened: 06:59:30	fft (KB)		Teste	er: V	Vilbur Stein	al Bottom Hol beck	e (Reset)
Time Test Ended: 10:37:30			Unit N	vo: 4	4	2252.00	ft (KB)
nterval: 3549.00 ft (KB) To 3580 Total Depth: 3580.00 ft (KB) (TVD)			Refe		valions.	2247.00	
Hole Diameter: 7.88 inchesHole C				KB to	OGR/CF:	5.00	ft
Serial #:     8353     Outside       Press@RunDepth:     21.13 psig     @       Start Date:     2013.07.13       Start Time:     04:31:00	) 3550):00 ft (KB) End IDate: End TTime:	<b>2013.07.13</b> 10:37:30	Capacity: Last Calib Time On E Time Off I	Btm: 2	2013.07.13	8000.00 2013.07.13 @ 06:59:00 @ 09:03:30	psig
TEST COMMENT: 30 IF: No Blow 30 ISt, No Blow 30 FF; No Blow							
30 FSI; No Blow							
Pressure vs. Tim	30 STOT Temperature	Time			RE SUMM	the second s	
-	10 SSS Temperature Control temperature	Time (Min.)	PR Pressure (psig)	Temp (deg F)	Annotati	ion	
1730 Fressure vs. Tim	SSS Transportate Comparative Comparative 105	(Min.) 0	Pressure (psig) 1742.75	Temp (deg F) 103.03	Annotati Initial Hydr	ion ro-static	
Pressure vs. Tim 6053 Pressure 7750	8353 Tempperature	(Min.)	Pressure (psig)	Temp (deg F) 103.03 102.58	Annotati	ion ro-static Flow (1)	E.
Pressure vs. Tim 0003 Pressure 170 100 100 100 100 100 100 100	900 Transportate 900 Transportate 100 100 100 100 100 100 100 10	(Min.) 0 1 32 59	Pressure (psig) 1742.75 11.71 18.38 60.45	Temp (deg F) 103.03 102.58 <b>102.80</b> 102.97	Annotati Initial Hydr Open To F Shut-In(1) End Shut-	ion ro-static Flow (1) ) In(1)	б 
Pressure vs. Tim 0003 Pressure 170 100 100 100 100 100 100 100	900 Transportate 900 Transportate 100 100 100 100 100 100 100 10	(Min.) 0 1 32 59	Pressure (psig) 1742.75 11.71 18.38 60.45 15.41	Temp (deg F) 103.03 102.58 <b>102.80</b> 102.97 103.01	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F	ion ro-static Flow (1) ) in(1) Flow (2)	
Pressure vs. Tim	900 Temperiture 000 Temperiture 000 000 000 000 000 000 000 0	(Min.) 0 1 32 59	Pressure (psig) 1742.75 11.71 18.38 60.45	Temp (deg F) 103.03 102.58 102.80 102.97 103.01 103.33 103.50	Annotati Initial Hydr Open To F Shut-In(1) End Shut-	ion ro-static Flow (1) ) In(1) Flow (2) ) In(2)	
Pressure vs. Tim	900 Transportation 900 Tr	(Min.) 0 1 32 59 60 92 123	Pressure (psig) 1742.75 11.71 <b>18.38</b> 60.45 15.41 21.13 50.13	Temp (deg F) 103.03 102.58 102.80 102.97 103.01 103.33 103.50	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut-	ion ro-static Flow (1) ) In(1) Flow (2) ) In(2)	
Pressure vs. Tim	500 Temperature 500 Te	(Min.) 0 1 32 59 60 92 123	Pressure (psig) 1742.75 11.71 <b>18.38</b> 60.45 15.41 21.13 50.13	Temp (deg F) 103.03 102.58 102.80 102.97 103.01 103.33 103.50 104.13	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	ion ro-static Flow (1) ) In(1) Flow (2) ) In(2)	
Pressure vs. Tim	500 Temperature 500 Te	(Min.) 0 1 32 59 60 92 123	Pressure (psig) 1742.75 11.71 <b>18.38</b> 60.45 15.41 21.13 50.13	Temp (deg F) 103.03 102.58 102.80 102.97 103.01 103.33 103.50 104.13	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	ion ro-static Flow (1) ) In(1) Flow (2) ) In(2) ro-static	as Rate (Mct/c
Pressure vs. Tim 5000 Pressure 1000 100	9000 Temporative 9000 Temporative 900 Tempor	(Min.) 0 1 32 59 60 92 123	Pressure (psig) 1742.75 11.71 <b>18.38</b> 60.45 15.41 21.13 50.13	Temp (deg F) 103.03 102.58 102.97 103.01 103.33 103.50 104.13	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	ion ro-static Flow (1) ) In(1) Flow (2) ) In(2) ro-static	as Rate (Mct/o
Pressure vs. Time 9050 Pressure 1750 100 100 100 100 100 100 100 1	000 Temperature 000 Te	(Min.) 0 1 32 59 60 92 123	Pressure (psig) 1742.75 11.71 <b>18.38</b> 60.45 15.41 21.13 50.13	Temp (deg F) 103.03 102.58 102.97 103.01 103.33 103.50 104.13	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	ion ro-static Flow (1) ) In(1) Flow (2) ) In(2) ro-static	as Rate (Mct/c
Pressure vs. Time 9055 Pressure 1700 100 100 100 100 100 100 10	000 Temperature 000 Te	(Min.) 0 1 32 59 60 92 123	Pressure (psig) 1742.75 11.71 <b>18.38</b> 60.45 15.41 21.13 50.13	Temp (deg F) 103.03 102.58 102.97 103.01 103.33 103.50 104.13	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	ion ro-static Flow (1) ) In(1) Flow (2) ) In(2) ro-static	as Rate (Mct/o
Pressure vs. Time 0005 Pressure 000 000 000 000 000 000 000 0	000 Temperature 000 Te	(Min.) 0 1 32 59 60 92 123	Pressure (psig) 1742.75 11.71 <b>18.38</b> 60.45 15.41 21.13 50.13	Temp (deg F) 103.03 102.58 102.97 103.01 103.33 103.50 104.13	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	ion ro-static Flow (1) ) In(1) Flow (2) ) In(2) ro-static	as Rate (M <i>ctid</i>

Printed: 2013.07.13 @ 10:47:54

Ref. No: 53402





RILOBITE TESTING INC.			Tes	t Tic	ket	
4/10 1515 Commerce Parkway	• Hays, Kansas 6760	)1	NO.	527	64	
Well Name & No. <u>60ings</u> #1 Company Northern Lights Oil (	Co. LLC				7-1 <b>41-</b> 1 224 <b>7</b>	<u>13</u> 
Co. Rep/Geo. Jeff Christian		Rig Ma			245	
	_Rge. <u>23</u> w	\$444C34C405779046427632747745712648C3742835764757875787	-011		State KS	
Interval Tested <u>3476 - 3508</u> Anchor Length <u>32 Anchor 110 Tail</u> Top Packer Depth <u>3471 - 3476</u>	_ Zone Tested _ Drill Pipe Run _ Drill Collars Run _	3167			9,1 56	
Bottom Packer Depth 3508	Wt. Pipe Run				6.4	
Total Depth3618	Chlorides	700 pp	m System	LCM	1	
Blow Description IF: Blow built IST: Blowback b	to BOB (11") ui 1+ to 11/2	in 8 min	1.			
FF: Blow built	-1.	0/2 min.				
FSI: Blowback b	uilt to 5/2	12%gas	86%oil	4-spearers	Number 7	
Rec         107         Feet of         60           Rec         130         Feet of         MCO		4 %gas	63 %oil		%water 33	%mud %mud
Rec 168 Feet of GWOM		19 %gas	28 %oil	11	%water 37	%mud
Rec Feet of $G IP = 325$	1	%gas	%oil		%water	%mud
Rec Feet of		%gas	%oil		%water	%mud
Rec Total 405 BHT	Gravity 36	API RW	°F	- Chlorid	es	ppm
(A) Initial Hydrostatic 1736	Test *				21:10	7/13
(B) First Initial Flow34	Jars		T-Start	ed	21:50	
(C) First Final Flow 134	Safety Joint			1	00:33	
(D) Initial Shut-In	Circ Sub # NA		T-Pulle	d		77
(E) Second Initial Flow146	A Hourly Standby		T-Out _		5:40	7/14
(F) Second Final Flow 79	Mileage 102 R	T	-	~	uld Not	
(G) Final Shut-In 057	Sampler		<u></u>	ot h	vater	
(H) Final Hydrostatic 1707	G Straddle			and Chal	o Doolyou	
	Shale Packer				e Packer	
Initial Open	Extra Packer				er	
Initial Shut-In	Extra Recorder				3	
Final Flow	Day Standby					
Final Shut-In	Accessibility					
1101t	Sub Total					

Call

James Windle

(On T	RILOB		DRI	LL STEM TEST REPO	RT	FLU	ID SUMMAR		
			Northe	rn Lights Oil Co. LLC	20-5s-23	20-5s-23w Norton KS			
	ESTI	ING , INC.	PO Box	c 164 er Ks 67002	Goings #	ŧ1			
			Andov	er KS 07002	Job Ticket:	52764 <b>DS</b>	ST#: 3		
			A TTN:	Jeff Christenson	Test Start:	2013.07.13 @ 21:50	00		
lud and Cushi	ion Info	ormation							
lud Type: Gel Ch	nem			Cushion Type:		Oil A PI:	36 deg A Pl		
lud Weight:	9.00 lk	o/gal		Cushion Length:	ft	Water Salinity:	ppm		
iscosity:	56.00 s	ec/qt		Cushion Volume:	bbl				
later Loss:	6.39 ir	1 <sup>3</sup>		Gas Cushion Type:					
esistivity:	0	hm.m		Gas Cushion Pressure:	psig				
alinity:	700.00 p	pm							
ilter Cake:	1.00 ir	nches							
ecovery Infor	mation								
				Recovery Table					
		Lengt ft	h	Description	Volume bbl				
			168.00	GWOM 37%m, 28%o, 19%g, 16%w	0.8				
			130.00	MCO 63%o, 33%m, 4%g	0.6	39			
			107.00	CGO 86%o, 12%g, 2%m	1.5				
			0.00	GIP = 325'	0.0	00			
	Tot	al Length:	405	.00 ft Total Volume: 2.966	bbl				
	Nur	m Fluid Samp	les: 0	Num Gas Bombs: 0	Serial	#:			
	Lab	oratory Nam	e:	Laboratory Location:					
	Rec	covery Comm	nents: Gr	avity = 37.6 api @ 76 deg F					
				rrected Gravity = 36 api					
			Co	ould not check RW of Water					

Trilobite Testing, Inc

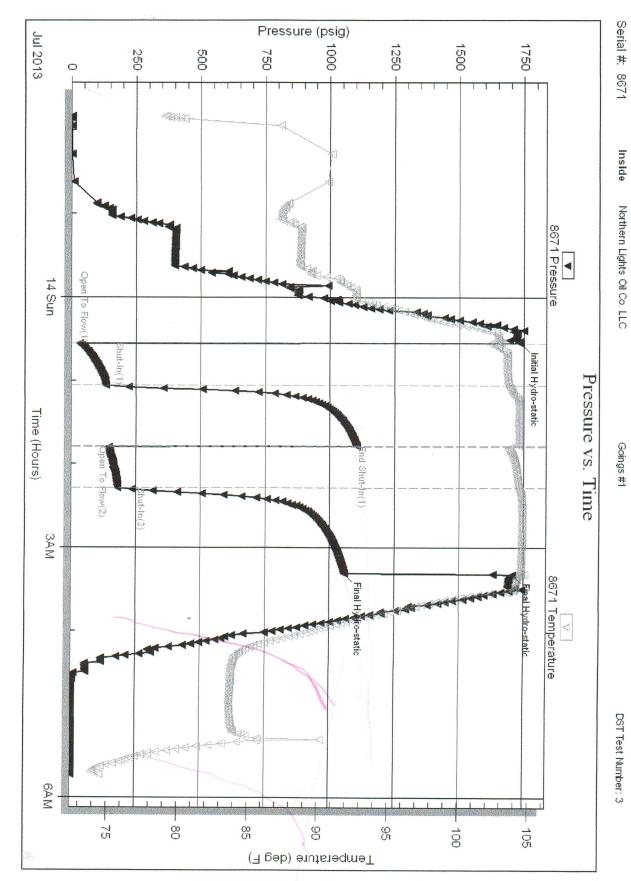
RILOBITE	DRILL STEM TE							
TESTING, INC.	Northern Lights Oil Co. LLC	20-5s-23w Norton KS						
	PO Box 164 Andover Ks 67002		Go Job	DST#	:3			
	ATTN: Jeff Christenson		Job Ticket: 52764 DST#: 3 Test Start: 2013.07.13 @ 21:50:00					
GENERAL INFORMATION:								
Formation:     LKC "F"       Deviated:     No     Whipstock:       Time Tool Opened:     00:33:00       Time Test Ended:     05:43:15	ft (KB)		Tes	ter:	Conventior James Win 57	nal Straddle der	(Reset)	
Interval: 3476.00 ft (KB) To 35 Total Depth: 3618.00 ft (KB) (T∖			Ref	erence Ele	evations:		0 ft(KB) 0 ft(CF)	
Hole Diameter: 7.88 inchesHole	Condition: Fair			KB	to GR/CF:	5.0	O ft	
Serial #:         8671         Inside           Press@RunDepth:         133.95 psig           Start Date:         2013.07.13           Start Time:         21:50:00	@ 3477.00 ft (KB) End Date: End Time:	2013.07.14 05:43:15	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000.0 2013.07.1 @ 00:32:4 @ 03:18:4	4	
TEST COMMENT: 30 - IF: Blow built								
60 - FSI: Blow bac	ilt to BOB in 10 1/2 min. ck built to 5 1/2"							
30 - FF: Blow bui	ilt to BOB in 10 1/2 min. ck built to 5 1/2"	Time			RE SUMN			
30 - FF: Blow bui 60 - FSI: Blow bac Pressure vs. Ti	ilt to BOB in 10 1/2 min. ck built to 5 1/2" 	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotat	ion		
30 - FF: Blow bui 60 - FSI: Blow bac Pressure vs. To 87/1 Pressure	ilt to BOB in 10 1/2 min. ck built to 5 1/2" imme 871 Temperature	(Min.) 0	Pressure (psig) 1736.37	Temp (deg F) 103.03	Annotat	ion ro-static		
30 - FF: Blow bui 60 - FSI: Blow bac Pressure vs. Tr 8571 Pressure	ilt to BOB in 10 1/2 min. ck built to 5 1/2" 	(Min.)	Pressure (psig)	Temp (deg F) 103.03	Annotat Initial Hyd Open To	ion ro-static Flow (1)		
30 - FF: Blow bui 60 - FSI: Blow bac Pressure vs. Tr 9571 Pressure 1700	ilt to BOB in 10 1/2 min. ck built to 5 1/2" 	(Min.) 0 1 31 75	Pressure (psig) 1736.37 33.65 133.95 1104.52	Temp (deg F) 103.03 102.22 103.56 104.30	Annotat Initial Hyd Open To Shut-In(1) End Shut-	ion ro-static Flow (1) ) -ln(1)		
30 - FF: Blow bui 60 - FSI: Blow bac Pressure vs. Tr 5571 Pressure 1700	ilt to BOB in 10 1/2 min. ck built to 5 1/2" 	(Min.) 0 1 31 75	Pressure (psig) 1736.37 33.65 133.95 1104.52 145.64	Temp (deg F) 103.03 102.22 103.56 104.30 103.67	Annotat Initial Hyd Open To Shut-In(1) End Shut- Open To	ion ro-static Flow (1) ) ∙In(1) Flow (2)		
30 - FF: Blow bui 60 - FSI: Blow bac Pressure vs. Tr 900 900 900 900 900	ilt to BOB in 10 1/2 min. ck built to 5 1/2"	(Min.) 0 1 31 75 76 105	Pressure (psig) 1736.37 33.65 133.95 1104.52	Temp (deg F) 103.03 102.22 103.56 104.30 103.67 104.30	Annotat Initial Hyd Open To Shut-In(1) End Shut- Open To	ion ro-static Flow (1) ) -in(1) Flow (2) )		
30 - FF: Blow bai 60 - FSI: Blow bai	ilt to BOB in 10 1/2 min. ck built to 5 1/2"	(Min.) 0 1 31 75 76 105	Pressure (psig) 1736.37 33.65 133.95 1104.52 145.64 179.48	Temp (deg F) 103.03 102.22 103.56 104.30 103.67 104.30	Annotat Initial Hyd Open To Shut-In(1) End Shut- Open To Shut-In(2) Final Hydr	ion ro-static Flow (1) ) -In(1) Flow (2) ) ro-static		
30 - FF: Blow builded of the state of the st	ilt to BOB in 10 1/2 min. ck built to 5 1/2"	(Min.) 0 1 31 75 76 105 166	Pressure (psig) 1736.37 33.65 133.95 1104.52 145.64 179.48 1057.32	Temp (deg F) 103.03 102.22 103.56 104.30 103.67 104.30 104.47 104.52	Annotat Initial Hyd Open To Shut-In(1) End Shut- Open To Shut-In(2) Final Hydr	ion ro-static Flow (1) ) -In(1) Flow (2) ) ro-static		
30 - FF: Blow builded Fressure vs. Tr Pressure vs. Tr	ilt to BOB in 10 1/2 min. ck built to 5 1/2"	(Min.) 0 1 31 75 76 105 166	Pressure (psig) 1736.37 33.65 133.95 1104.52 145.64 179.48 1057.32	Temp (deg F) 103.03 102.22 103.56 104.30 103.67 104.30 104.47 104.52	Annotat Initial Hyd Open To Shut-In(1) End Shut- Open To Shut-In(2) Final Hydr Final Hydr	ion ro-static Flow (1) ) -In(1) Flow (2) ) ro-static ro-static	Bas Rate (Mct/d)	
30 - FF: Blow builded 60 - FSI: Blow bail Pressure vs. Tr server Pressure vs. Tr server Pressure vs. Tr transformer	ilt to BOB in 10 1/2 min. ck built to 5 1/2" trine	(Min.) 0 1 31 75 76 105 166	Pressure (psig) 1736.37 33.65 133.95 1104.52 145.64 179.48 1057.32	Temp (deg F) 103.03 102.22 103.56 104.30 103.67 104.30 104.47 104.52	Annotat Initial Hyd Open To Shut-In(1) End Shut- Open To Shut-In(2) Final Hydr Final Hydr	ion ro-static Flow (1) ) -In(1) Flow (2) ) ro-static ro-static	Bas Rate (Mct/d)	
30 - FF: Blow builded 60 - FSI: Blow bail Pressure vs. Tr 100 100 100 100 100 100 100 10	ilt to BOB in 10 1/2 min. ck built to 5 1/2"	(Min.) 0 1 31 75 76 105 166	Pressure (psig) 1736.37 33.65 133.95 1104.52 145.64 179.48 1057.32	Temp (deg F) 103.03 102.22 103.56 104.30 103.67 104.30 104.47 104.52	Annotat Initial Hyd Open To Shut-In(1) End Shut- Open To Shut-In(2) Final Hydr Final Hydr	ion ro-static Flow (1) ) -In(1) Flow (2) ) ro-static ro-static	Sas Rate (Mcf/d)	
30 - FF: Blow builded 60 - FSI: Blow bailded Pressure vs. Tr 1700 10	ilt to BOB in 10 1/2 min. ck built to 5 1/2" trine	(Min.) 0 1 31 75 76 105 166	Pressure (psig) 1736.37 33.65 133.95 1104.52 145.64 179.48 1057.32	Temp (deg F) 103.03 102.22 103.56 104.30 103.67 104.30 104.47 104.52	Annotat Initial Hyd Open To Shut-In(1) End Shut- Open To Shut-In(2) Final Hydr Final Hydr	ion ro-static Flow (1) ) -In(1) Flow (2) ) ro-static ro-static	Sas Rate (Mcf/d)	

Ref. No: 52764

Printed: 2013.07.14 @ 06:23:40

Ref. No: 52764

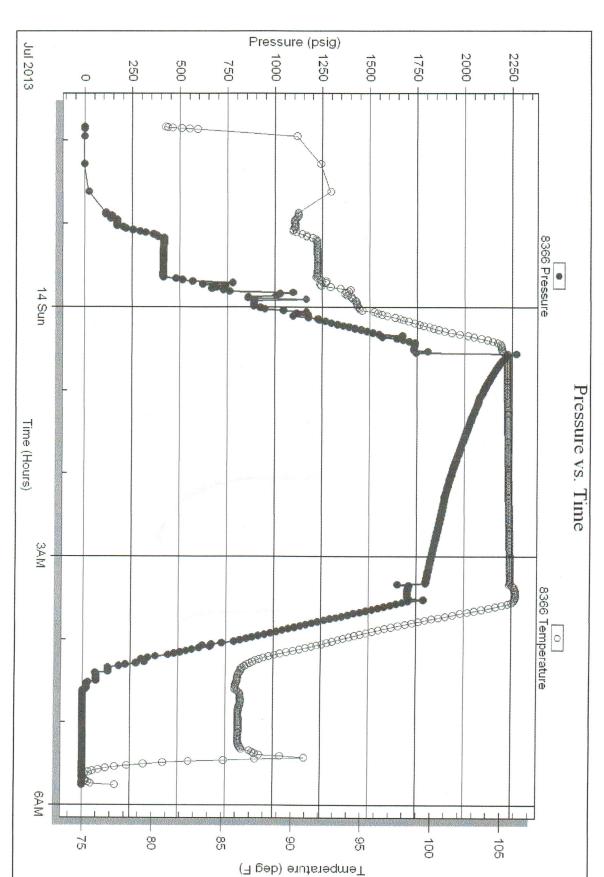




Printed: 2013.07.14 @ 06:24:02

Ref. No: 52764

Trilobite Testing, Inc



Serial #: 8366 Inside Northern Lights Oil Co. LLC

Goings #1

DST Test Number: 3

													R						
0		bato		1 20		11	ı	1	Stroppyture				F	P	FE				M
<b>N</b>	0	0-				3	N	6	·				R	R		NUMP NO1		ONEXATOR.	72
8		1:45	0	14-12	SP	51-8	MTOT	6-13		and the second second			Sint	R				S IS	
121		1.45pm	6 9	14-12 W	pud	00-	1			STATE OF			F:27	RR	3	EE		lor	P.C
L	k L	40	75	1ch	2						NU SIGNES MARKS	and the second second	14,5	<i>14</i> 's	<b>B</b>	<b>BP</b>	EE	TEATOR LOOPTHERN	ALLARD IV, IN
Ch	>	CTCH Floces	8	21	6/6/				anna ann an a		n <b>ari</b> atan 24		1			BB		WP	
CARRONIST Jeff Cherstian inmeno	_		87573 S/2x 15,5#	M )	010								RR	RT		CANAL A CALL - 3 GM MAD 7-8-/3 DOD ME 7-8-/3 CANAL A CALL - 15 MM MAD MAD 7-/9-/3	DOUTING I ANDI URAN	3Eers	_
w		Ep Stage 3 hes Colsx, CDC. PS	.15	tul	120						10 Street and		3618 342 614 55 1	218		E			
TOM	OFFIC	Stage 3 hes, Crut RH w/305×, Crut TO Isx, CDC, PD-11:50 Pin & Consolidated	5	16	Ann						yerre and	S.Consulption	830	218	83	E E	MALINE A 12. MAILE	South,	1
Š	OFFICE NO.	CD CH	+ et 3612.	165 st Clase A, 2 To gel, 3 Tocc, coc,	5	-		The second second second				ant and ten the	6	1 m	F.		Eß	J'	
C. T. S.		C.	to	Q	ret						gunaunaun	Sector Statement	tim	- c/m			in the	Eas	
		PD	36	, ler	Cut 218-1214							53	55	134 1242 13		-8-13	EL	1 East + South I pto	
		-lis	512	12	5.10			The local system is the second se				J.	63	cim		ZZ	CBA	20cci	
		SO 16		1000	2XC			international and internationa			a production of the	X	2/2	A			ER.	The second	PLENO, PLENO
	(and internation)	Pin & Cons	, CTCH+Add Descoe,	2C	halo						and succession	A	00%	12			Ju	40	SE
		K 3	H×	37						1		ierasies area. A	6/0	20		7-8-13	Synta NY,	0000	
Sourcesson and the second		10	Ad	2	etc,							ndiranekseni Alteresanen	2	2	-	33	ar	T'ST	Ĩ
	Conference of	12501	00	6.	1. 1. 1.				and the state			-	900 6	88		03	S.	1	
over 1900		) ida	esc		14 T O J							epres-Add		6	E		Ê		•
		the the	.0e	PD	X				h		interest of	igner Weight State	8	8			Mus	1 5	
316		1 8	h	-3,130	R						an a band		Sils	12		88.20	Mud-Co	SUMMY S	
1		750	R.X	<u>A</u>								-	92	9	29)	6	<sup>o</sup>	NSC	
72-		toge	Botton	PMX	5							(CART AND	8	PA.		88	MAR	Nov O	AN
.77		, C	the		375				andra na star and a		and the second		an agaptan an a			6	S	DENE	8
19,	0	12		411	8/4 x					20235 263		ni)sanintinti	marson a series	Ole	-4		- mail	20	Lu
Ø11	CALL NONE	1970		Allied						Contraction of the local division of the loc				( )		<b>5</b> 2//6	C	OENES 20 T	7-
NO.	SN .	SK	1753x		20 K											×116		1	20
w	W	60			X										STRUMENTS			5	50
316-772-7761 mm 3480'	3050'	14	06		211.				Concession of the							1. Mar 10	me chemicel me was	5 RI	ANNO 13.137-20652 00-9
ő	,	, dotos	ſ		1.											6/0	F	2300	0-0
8	ę	1 Ca	Colored Party of Colore	ł.		. 🖡			Summerica	and the second second	are and a second	Concession and	Non-Prophetic	Demperatura (M	Botheshopen?	4 B -		401	0

DATE         CLEMENT         Kerral           DATE         CUBTOMERT         WELL NAME & NUMBER         SECTON         TOWNSHIP         RANCE         COUNTY           THY         Sile and         Gaines	ug. 14. 2013	3 9:17AM						No. 4228	P. 3	
POREMAN_LAS           POREMAN_LAS           POREMAN_LAS           POREMAN_LAS           POREMAN_LAS           POREMAN_LAS           POREMAN_LAS           POREMAN_LAS           CEMENT           POREMAN_LAS           CEMENT           POREMAN_LAS           CEMENT           THUCK#           DRUM           CEMENT           CEMENT           THUCK#           THUCK#           DRUM           THUCK#           CEMENT           THUCK#           THUCK#           THUCK#           DRUM <th< td=""><td></td><td></td><td></td><td><u></u></td><td>-9/1</td><td></td><td>TICKET NUME</td><td>ER 3</td><td>7984</td></th<>				<u></u>	-9/1		TICKET NUME	ER 3	7984	
POREMAN, LAS         PULL ( / Linitac)           20 DB 2843-8210 or 880-847-8676         CEMENT         FIELD TICKET & TREATMENT REPORT         FUELS ( / Linitac)         ////////////////////////////////////				Voll	104		LOCATION	Oakle,	Ke	
OBJERS AND CONTROL OF AND ADDRESS         CEMENT         Case           DATE         CURTOMERS         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANCE         COUNTY           TATE         CURTOMERS         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANCE         COUNTY           TATE         CURTOMERS         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANCE         COUNTY           TATE         CURTOMERS         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANCE         COUNTY           TATE         CURTOMERS         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANCE         COUNTY           TATE         CURTOMERS         TURCKS         DRIVER         THUCKS         DRIVERS         THUCKS         DRIVER         THUCKS         DRIVERS         THUCKS         DRIVERS         THUCKS         DRIVERS         THUCKS         DRIVERS         THUCKS         DRIVERS         THUCKS         DR		i Vitali Sandana, (						Jerr 14	(topiace)	
OBJERS         CEMENT         CASH           DATE         CURTOMERT         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANCE         COUNTY           DATE         CURTOMERT         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANCE         COUNTY           THE         CURTOMERT         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANCE         COUNTY           7.44-/3         SLOIL         SULS         JUL         JUL <td< td=""><td></td><td></td><td>FIEI D'</td><td>TICKET</td><td>R TREAT</td><td>MENT REP</td><td>ORT</td><td>Fuzz</td><td>* '</td></td<>			FIEI D'	TICKET	R TREAT	MENT REP	ORT	Fuzz	* '	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	O Box 884, Cha	nute, KS 66720	I Handachd	B L CO E FILM I					Kancat	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			MELL NAL	af & MilhAl			TOWNSHIP	RANGE	COUNTY	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Cuaroment"				20	50	2842	Abutos	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	and the second	JUID	<u>    (roings</u>	- <del>+</del>	114.543	20	03	840 40	1.01 1.01	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CUSTOMER	them ligh	ts Oil			TRUCK #	DRIVER	TRUCK #	DRIVER	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	MAILING ADDRES	s V				. 399	Demon M			
Andower         VS         100000           JOB TYPE_3 Stare         HOLE BLZE         2/4         HOLE DEPTH         3/2/7         CABING BLZE & WEIGHT         5/2         1/5.5           JOB TYPE_3 Stare         HOLE BLZE         2/4         HOLE DEPTH         3/2/7         CABING BLZE & WEIGHT         5/2         1/5.5           ACAMUS DEPTH         3/2/7         DRIL PIPE         TUBING         CEMENT LEFT IN CABING O. 9.94/           BLURRY WEIGHT         3/2/7         DRIL PIPE         TUBING         CEMENT LEFT IN CABING O. 9.94/           BLURRY WEIGHT         3/2/7         DRIL PIPE         TUBING         CEMENT LEFT IN CABING O. 9.94/           BLURRY WEIGHT         3/2/7         DRIL PIPE         TUBING         CEMENT LEFT IN CABING O. 9.94/           BLURRY WEIGHT         3/2/7         DRIL PIPE         TUBING         CEMENT LEFT IN CABING O. 9.94/           MERMARKEN:         S.S. Ander Left ANDER OF COLORS         MIX POL         RATE         GABALANCE COLORS         Ander LEFT IN CABING O. 9.94/           MERMARKEN:         S.S. Ander Left ANDER OF COLORS         MIX POL         MIX POL         CEMENT CESS No. 0.120         Ander LEFT IN CABING OR OF COLORS         Ander LEFT IN	PNP	DOX 11.4			ME W JINK		.hcK.l		·	
$ \begin{array}{c cccc} \hline \begin{tabular}{ ccccc c c c c c c c c c c c c c c c c$	CITY	STA	TE ZIP	CODE		529	brdes L_			
$ \begin{array}{c cccc} \hline \begin{tabular}{ ccccc c c c c c c c c c c c c c c c c$	Andrup	1	15 110	2002		905:34	Destinal			
CASHIG DEPTH         STUDING         OTHER DIAC         2876 jl 4           CASHIG DEPTH         St. 21 / 27         DRILL PIPE         TUBINO         CEMENT LEFT In CASHING         0.994'           BLURRY WEIGHT (42, 7), 7         St. UNC 9, MK 193         RATE 6, DAL JANN         0.994'           DISPLACEMENT (5, 5, 1/47K DISPLACEMENT PSI         MIX P31         RATE 6, DAL JANN         0.994'           DISPLACEMENT (5, 5, 1/47K DISPLACEMENT PSI         MIX P31         RATE 6, DAL JANN         0.994'           REMARKS:         So ji 20         So ji 20         So ji 20         0.000 (42, 5, 4), 5, 6), 7,8           REMARKS:         So ji 20           REMARKS:         So ji 20           REMARKS:         So ji 20           REMARKS:         So ji 20	INB TYPE 25		100 YI	-	HOLE DEPTH	3/018	CASING SIZE & V	a sars and t a	and the second	
BLURRY WEIGHT (2).///// BLURRY VOL         WIN PBI         RATE         G. D.M. (2000)           DISPLACEMENT (5.5.4)./W/ DISPLACEMENT PSI         WIN PBI         RATE         G. D.M. (2000)           DISPLACEMENT (5.5.4)./W/ DISPLACEMENT PSI         WIN PBI         RATE         G. D.M. (2000)           OWD backeds on 10 & 17 'Sumplag of 41. D.M. Horl Back por 41 (10, 1770 run casting hook castic result         MIN PBI         RATE         G. D.M. (2000)           and Eluch, 1000 (10, 1775)         Displace         MIN PBI         RATE         G. D.M. (2000)         Rate (10, 1770)           and Eluch, 1000 (11, 1775)         Displace         MIN PBI         Rate (11, 1770)         Rate (11, 1770)         Rate (11, 1770)           and Eluch, 1000 (11, 1770)         To start (11, 1770)         Rate (11, 1770)         Rate (11, 1770)         Rate (11, 1770)           back to truck parage (5000)         Contart (11, 1780)         Start (11, 1770)         Rate (11, 1770)         Rate (11, 1770)         Rate (11, 1770)           Cooperusition & Seminart         Min PBI         Description of seminart         Rate (11, 1770)         Rate (11, 1770)         Rate (11, 1770)           Cooperusition & Seminart         Min PBI         Description of seminart         Rate (11, 1770)         Rate (11, 1770)           Cooperusition (11, 1770)         Description of seminart	CARING DEPTH	11			TUBING			OTHER DIA	1870144	
DISPLACEMENT         95.1         MIX PSI         RATE         G bh / pm           PERMARKS:         Safty media         scienting scienting of Michael Drilling run Stategasto, controllations of 1,2,3,4,5,6,7,8           PHD, baskeds on 10 215 "Standag of 11, DV don't ba for ost 100 (2000 controllations of 11, DV don't ba for ost 100 (2000 controllations of 11, DV don't ba for ost 100 (2000 controllations of 11, DV don't ba for ost 100 (2000 controllations of 11, DV don't ba for ost 100 (2000 controllations of 100 (2000 controllatio (2000 controllations of 100 (2000 controllations of 100 (2000	II LINDY WEIGHT	14.7/ N.7 SLL	IRRY VOL		WATER gal/s	k <u></u>	CEMENT LEFT IN	CASING 2	941	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					MIX PSI		RATE 6 66	am		
440, baskeds on 10 ± 15' Constant of of 41, DV, band ba ba of ± 1100 for 1270 run caster hook and ± circul and ± lines, 10 hold 10:11 for 125 kg of 12 VC, w/5 <sup>2</sup> kal 5:color 5 k, shuldarin cilear filing and we changer (1.02, displace "/ 40 hold we had 00 opened & 1000 for hook and with the presence of 900 displand (1.02, displace "/ 40 hold we had 00 opened & 1000 for hook and we we we we had the hook and the hold we had 00 opened & 1000 for hook and the hold we had 00 opened & 1000 for hook and the hold we had 00 opened & 1000 for hook and the hold we had 1000 for hook and we had the hold we had 00 for hook and the hold we had 1000 for hook and we had the hold we had 1000 for hook and the hold we had 00 for hook and the hold we had 00 for hook and 1000 for hook and 1000 for how and 10000 for how and 1000 for how and 1000 for how						un flordon	at contralize	x an 1.2. S.	4.5.6.7.8.	
and fluck, 10kd/kl_m/y, 1755ks of CLVC, $10/5^{\pm}$ Kalsedoer sk shuldown release plug and use and fluck, 10kd/kl_kl_m/y, 1755ks of CLVC, $10/5^{\pm}$ Kalsedoer sk shuldown release plug and use and fluck, 10kd/kl_kl_kl_kl_kl_kl_kl_kl_hl_m/d with final 11ft pressaw of 900 and and 1500 released fluckhak dogs and dow't tool operator (2000 si hanked up to bree e-creater to the back hat we have shuld dogs and dow't tool operator (2000 si hanked up to bree e-creater to the back hat we have shuld dogs and the fluck tool operator (2000 si hanked up to bree e-creater to the back hat we have shuld be fluck tool operator (2000 si tool to the tool operator (2000 states) and tool operator (2000 states) and the tool operator (2000 states) and (2000	ista 1 . h					ha as 4913	1870 140 0	as ine hook	unscircul	
Cumps Lines, displace "Yurbhilders fills of 44 bilmed with stind 1151 pressure of 900 phylicial 1500 "released Elasticial and the fail operator (2005) i hoekadu pta tree estreabled 3hr. You but haltank paras scored muditud, sallow "Mobile RCL, mix 2008s in the mix 2008s in th	A AL	alli Val			1A . 15t	Valsaclass		11,	1 1	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	nucl + lus h . /	The Kil M	111110	1 11 m	elel hhl	and the stand		0	applante	
Back In truck parap Score i mul fluct, Billing Wohle KCL, prix 2005 is in th. trix 2705 to the GO/HD           Desk units & Bentant Weltage, chartedowe, released plan worked pump attack. Displaced Worked Weltage           Cleast, while is the off TOD Weltage banded & TOD Weltage pump attack. Displaced Worked Weltage           Aprax 15661 at Demant to pite.           Account         Quantry or UNITE         DESCRIPTION of SERVICES or PRODUCT         UNIT PRICe         TOTAL           Account         Quantry or UNITE         DESCRIPTION of SERVICES or PRODUCT         UNIT PRICe         TOTAL           Store         Store         Store         Store         Store         Store         Store           Store         Note         Store         Store         Store         Store         Store           Store         Note         Store         Store         Store         Store         Store           Store         Store         Store         Store         Store         Store         Store           Store         Store         Store         Store         Store         Store         Store           Store         Store         Store         Store         Store         Store         Store           Store         Store <thstore< th="">         Store         <thstore< th="">         &lt;</thstore<></thstore<>	oumps lines	, alsonce 1	YOBBISICS		1	interit it have	Kadu and same	me localited	she lin	
Open with \$28 barbarts         W freed statutedown, released plan washed punch at lass, displaced Washedd           Cook with frances in the plane barded & 170 mm a store of a stored at last at last and the plane of the plane at last at last at last a store of a stored at last at last and the plane at last las	1500" 014	osed flort hel	o along and an	<u> </u>		1. 20	in the set of the	- marks	210km	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	back to true.	K pang Sooge	Mud fluck			mix soal	STATA, AL	A3/041.0	We wall	
Then & yracy         ACCOUNT       Then & yracy         QUANTY or UNITS       DEBCRIPTION of SERVICES or PRODUCT         UNIT PRICE       TOTAL         ODE       QUANTY or UNITS       DEBCRIPTION of SERVICES or PRODUCT         UNIT PRICE       TOTAL         ODE       UNIT PRICE       TOTAL         ODE       UNIT PRICE       TOTAL         ODE       UNIT PRICE       TOTAL         ODE       ODE         ODE       UNIT PRICE       TOTAL         ODE       ODE         ODE       ODE         ODE       ODE         SYOTA       32.752       31.752         SYOTA       32.752       41.419752         SYOTA       32.752       41.41902       SOL         SYOTA       32.752       41.41902       51.62.62.1         1107 <th c<="" td=""><td>ه طانس ۲۰۰</td><td>8 bm marte )</td><td></td><td></td><td></td><td>1 1 1</td><td>e pu an at in</td><td>s alsources</td><td>1 . 1. 11</td></th>	<td>ه طانس ۲۰۰</td> <td>8 bm marte )</td> <td></td> <td></td> <td></td> <td>1 1 1</td> <td>e pu an at in</td> <td>s alsources</td> <td>1 . 1. 11</td>	ه طانس ۲۰۰	8 bm marte )				1 1 1	e pu an at in	s alsources	1 . 1. 11
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Fresh water	with fine li			baded Q	1100-1	- Martin	A CC/BELS	2 ×4:14	
ACCOUNT CODE         QUANITY or UNITS         DEBCRIPTION of SERVICES or PRODUCT         UNIT PRICE         TOTAL $SHOIC$ I         PUMP CHARGE $SI/ZS^{SP}$	aprax 15	hh at orm	ent top!	- 1			100 4 4		1.1	
CODE         I         PLMP CHARGE         31/75%         31/75%         31/75%           5406         BO         MILEAGE         5,25         420%         420%           5406         BO         MILEAGE         5,25         420%         420%           5407A         25.4         Ton critege chilies         28,70         41475%           1126         175 s.ks         OLDC         28,70         41475%           110A         875 th         Kol scal         .56         490%           1131         400         60/40 poz         .56         490%           1131         400         60/40 poz         .15,2%         6344%           1107         100         Sto scal         .27         297%           1107         100         Sto scal         .21         .21         .21           1107         100         Sto scal         .21         .21         .21 <tr< th=""><th>ACCOUNT</th><th></th><th></th><th>200.400</th><th></th><th></th><th>CALL FULL</th><th></th><th>1</th></tr<>	ACCOUNT			200.400			CALL FULL		1	
5406     80     MILEAGE     5,25     4202       5407A     25.4     Ton criteage delivery     1.75     55569       1126     175 s.Ks.     OWC.     28,70     414759       110A     875 st.     OWC.     28,70     414759       1131     400     60/40 poz.     15,26     43042       1131     400     60/40 poz.     15,26     437       1188     275,24     bertoatk.     27,72     2979       1107     100     \$16 seel     2,97     2979       1107     100     \$16 seel     2,97     2979       1107     100     \$16 seel     433,75     433,75       4130     10     \$1/2 centralizers     6.122     6.1022       4130     10     \$1/2 centralizers     6.122     5.802       4130     10     \$1/2 besklets     2902     \$1802       4130     10     \$1/2 besklets     2902     \$1802       4104     2     \$1/2 besklets     2902     \$1802       4104     2     \$1/2 besklets     2902     \$1802       412     \$222     \$1/2 besklets     2902     \$1902       41277A     1     \$1/8 bestl     30.055       1446 <td< td=""><td></td><td>QUANITY or U</td><td>INITS</td><td>DE</td><td>SCRIPTION OF</td><td>SERVICES OF PP</td><td></td><td>1</td><td>IVIAL</td></td<>		QUANITY or U	INITS	DE	SCRIPTION OF	SERVICES OF PP		1	IVIAL	
5406     80     MILEAGE     5,23     4202       5401A     25.4     Ten milarge delivery     1.25     5,55       1126     175 sks     012C     23,70     414759       110A     875*     Kol Scal     .56     1902       1131     400     60/40 poz.     .56     1902       1131     400     60/40 poz.     .56     1902       1131     400     60/40 poz.     .37     743 24       1188     2752 #     berbark.     .37     743 24       1107     100 #     \$10 scal     .37     297 2       1107     100 #     \$10 scal     .297     297 2       1107     100 #     \$10 scal     .297     297 2       1130     10     51/2 centralizors     .6.102       4130     10     51/2 centralizors     .6.102       4130     10     51/2 servichers     .322       4104     2     51/2 servichers     .322       4130     10     51/2 servichers     .322       4109     51/2 servichers     .322     .3280       4104     .201     KGL     .1.22     .005       4142     .201     .5     .30.05       11446     .0000	5401C	1	PUN	AP CHARG	)E		· · · · · · · · · · · · · · · · · · ·		3175=	
5407 A       25.4       Ton mileage delivery       1.25       55569         1126       175 sks.       OWC.       23.70       414759         110A       875 th       Aol scal       56       4908         1131       400       60/40 ppz.       15.86       63444         1131       400       60/40 ppz.       15.86       63444         1131       400       60/40 ppz.       15.86       63444         1131       400       60/40 ppz.       37       74389         1131       400       60/40 ppz.       37       74389         1131       400       5/2 start shoe       37       74389         1107       100       40 start       37       74399         1107       100       5/2 start shoe       4133,75       433,75         4153       1       5/2 start shoe       433,75       433,75         4130       10       5/2 start shoe       433,75       580°         4109       5/2 start shoe       37       580°       580°         4109       2       5/2 start shoe       3288       3280°         4109       5/8 DV tool Wilet shoe       4900       30,059	and the second	80	MIL	EAGE		·		to the to the total to the total to the total to	. 4200	
1/20       175 sks.       0WC.       25.1       1171=2         1/10 A       875 th       Kal scal       .56       1490 stall         1/13       400       60/40 poz.       15.8       6344 stall         1/18 B       2752 th       berloakk.       .27       743 stall         1/18 B       2752 th       berloakk.       .27       297 stall         1/107       100 th       Sto scal       .2,97       297 stall         1/159       1       51/2 start shae       .433,25       .433,75         1/130       10       51/2 contralizers       .6/2*       .602*         1/130       10       51/2 contralizers       .6/2*       .602*         1/130       10       51/2 besktets       .290*       .570*         1/101       2       51/2 besktets       .290*       .570*         1/102       2       51/2 besktets       .290*       .210*         1/104       2       51/2 besktets       .290*       .210*         1/104       3/2*       .200*       .210*       .22*         1/102       2/2*       .200*       .210*       .210*         1/142       2/2*       .200*       .210*			To	n miles	ar deliver	×			35560	
110A     875#     Act scal     .56     190#       1131     400     60/40 ppz.     15.86     27     247       118B     2752#     benkatk.     27     297%       1107     100 #     Stoscal     2.97     297%       1107     100 #     Stoscal     2.97     297%       1107     100 #     Stoscal     2.97     297%       1107     100 #     Stoscal     433.75     433.75       1107     100 #     Stoscal     2.97     297%       1130     10     5/2 Stort shoe     433.75     433.75       1130     10     5/2 Stort shoe     6.1022     6.1022       1101     2     5/2 Stort shoe     6.1022     5.80%       1101     2     5/2 Stort shoe     2408%     5.80%       1101     2     5/2 Stort shoe     2408%     5.80%       1101     2     5/2 Stort shoe     2408%     3.280%       1101     2     5/2 Stort shoe     411%     828%       1102     1     5/8 DV shoel W/laste shoes     1.900%     4900 %       1102     2     2     5/8 DV shoel W/laste shoes     1.900%     1.900%       1102     1000     1000     1000	1 91	1755	(	OWC	ð			23,10	414752	
1131       4000       60/40002       15.20       63.44/20         1188       27524       homboliki       27       743.24         1107       100       510 seel       2,97       297         1107       100       512 start share       433.25       433.25         1107       100       512 start share       433.25       433.25         1130       10       512 centralizers       61/22       61022         1130       10       512 baskets       24022       580.20         1101       2       512 baskets       24022       580.20         1101       2       512 baskets       24022       3280.00         1101       2       512 baskets       24022       3280.00         1314       400       512 sendehers       8222       3280.00         1142       2001       KGL       4102       8222         1142       2001       KGL       10002       10002         11446       10002       UFR mud flush       50.05       50.05         11446       10002       UFR mud flush       10005       27.055         11446       10002       10005       50.55       50.55				lal sea	1			.56	4900	
11/8 B       2752 #       berbaite       27       743 29         1107       100 #       floseel       2,97       297         4159       1       5½ flood shoe       433,25       433,25         4159       1       5½ flood shoe       433,25       433,25         4150       10       5½ centralizers       6/022       6/022         4109       2       5½ beskets       29022       580.20         4109       2       5½ scratchers       2202       328002         4314       40       5½ scratchers       8202       328002         4277A       1       5½ beskets       24002       328002         4277A       1       5½ beskets       29002       49002         1142       2001       KGL       4102       3222         11446       1000001       KGL       1,292       1,0002         11446       1000001       WFR mud flush       1,292       1,0002         11446       1000001       WFR mud flush       1,292       1,0002         11446       1000001       WFR mud flush       1,292       1,005         11446       10000001       WFR mud flush       27,055       5005			· /	0/40	500			15,86	63442	
1107       100 #       Stossel       2,97       297         4159       1       5/2 Start shoe       4/33,25       4/33,25         4159       1       5/2 Start shoe       4/33,25       4/33,25         4130       10       5/2 centralizers       6/2*       6/2*         4104       2       5/2 baskets       290*       580*         4314       40       5/2 centralizers       822*       3280*         4314       40       5/2 senatchers       822*       3280*         4277A       1       5/2 baskets       82*       3280*         4277A       1       5/2 baskets       82*       3280*         4277A       1       5/2 baskets       82*       3280*         1142A       2001       KGL       4100*       4900*       4900*         1142A       2001       KGL       1.2*       1.000*       1.000*         11446       10000al       WFR mud flush       1.2*       1.000*       1.000*         11446       10000al       WFR mud flush       1.2*       1.000*       1.000*       1.000*         11446       10000al       WFR mud flush       2.1.005*       3.0.05*       3.0.05*<		1701	# 1	- has	L				74804	
4/130     10     5 /2 centralizers     6/22     6/022       4/104     2     5 /2 baskets     29022     5 80.20       4314     40     5 /2 sendchers     8228     328022       4277A     1     5 /8 DV tool W/ladek down     490022     490022       1142     2 gol     KGL     4112     8228       11446     1000gal     WFR mud flush     1, 22     1,00022       11446     1000gal     WFR mud flush     1,22     1,00022       11446     1000gal     WFR mud flush     1,20     30,058       11446     1000gal     WFR mud flush     1,005     1,005									2970	
4/130     10     5 /2 centralizers     6/22     6/022       4/104     2     5 /2 baskets     29022     5 80.20       4314     40     5 /2 sendchers     8228     328022       4277A     1     5 /8 DV tool W/ladek down     490022     490022       1142     2 gol     KGL     4112     8228       11446     1000gal     WFR mud flush     1, 22     1,00022       11446     1000gal     WFR mud flush     1,22     1,00022       11446     1000gal     WFR mud flush     1,20     30,058       11446     1000gal     WFR mud flush     1,005     1,005		100	-	- V O	1 -1	S		177 15	422 75	
4104     2     51/2     baskets     24000     57000       4314     40     51/2     scrubbers     8200     32800       4277A     1     51/2     scrubbers     49000     49000       4277A     1     51/2     scrubbers     49000     49000       1142A     2001     KGL     41100     8200       11446     1000001     KGL     1,322     1,0000       11446     1000001     WFR mud flush     1,322     1,00000       11446     1000001     WFR mud flush     1,322     1,000000       11446     10000001     WFR mud flush     1,000000     1,000000       11446     10000001     WFR mud flush     1,000000     1,000000       11446     100000001     WFR mud flush     1,000000     1,000000       11446     100000001     WFR mud flush     1,0000000     1,000000       11446     1000000000000000000000000000000000000		<u> </u>		15 71	art shoe			1 100	1100	
4314     40     5%     Scholders     8200     3280       4314     1     5%     0 V tool W lateh down     4900     4900     4900       4277A     1     5%     0 V tool W lateh down     4900     4900     4900       1142A     2001     KGL     4110     8200       11446     100000     WFR mud flush     1,22     1,000       11446     100000     WFR mud flush     1,22     1,000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     10000     10000     10000       11446     100000     <		10	5			5		61-	600	
4314     40     5% Scruchers     3280-       4277A     1     5% DV tool W/lettel down     4900% 4900%       1142A     2001     KGL     4112     3282       11446     1000001     WFR mud flust     1,32-     1,000%       11446     1000001     WFR mud flust     1,32-     1,000%       11446     1000001     WFR mud flust     1,32-     1,000%       11446     1000001     WFR mud flust     1,22-     1,000%       11446     1000001     WFR mud flust     1,22-     1,000%       11446     10000001     WFR mud flust     1,000%     1,000%       11446     100000001     WFR mud flust     1,000%     1,000%       11446 <td>4104</td> <td>and the second se</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>dio</td> <td>270-</td>	4104	and the second se						dio	270-	
1142 A         2gol         KGL         4112         3242           1144 G         1000gal         WFR mud flush         1.32         1.000 <sup>22</sup> 1144 G         1000gal         WFR mud flush         1.32         1.000 <sup>22</sup> 1144 G         1000gal         WFR mud flush         1.30.058           1000gal         WFR mud flush         1.30.058           1000gal         Subble I         30.058           1000gal         Subble I         30.0	4314	40	5	Ve Se	indefers				3.280	
1142 A         2gol         KGL         4112         324           11446         1000gel         WFR mud flush         1.32         1.0002           11446         1000gel         WFR mud flush         1.32         1.0002           11446         1000gel         WFR mud flush         1.30.052           1000gel         WFR mud flush         1.0002           1000gel         WFR mud flush         30.052           1000gel         WFR mud flush         1.0002           1000gel         WFR mud flush         30.052           1000gel         WFR mud flush         1.0002           <	42.77A		5	O &	V tool W/	later down		4400	4900=	
1/1446 1000gal WFR mud flush 5ubbabi 30.059 1055/06/5 - 3005 5ubbabi 27.052 SALESTAX 1/22.50	1142.4	2001	/	KGL				4100	Of the	
0 5uble/30,057 1css/06/5c = 3005 Suble/3 27,052 SALES TAX 1/00-5/0	/144G	1000	gal U	JFR .	nuc flush			Accession for the second se	1.000	
1cm         1cm         2005           Subbolis         27.05           SALES TAX         1400-54			0					Sublab [	30.058	
Subob 27,052 SALES TAX 14,00,50								las longs	- 2005	
SALES TAX 7960.000								Subtonts 1	27.052	
EETBAATED	1					٣			1422.56	
IUTAL BOY ICIAL	tavin 3737					b. contraction of the second se				
				1				ESTIMATED		

No. 4228 P. 3

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

a gradie of construction and a set of the two

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner Sam Brownback, Governor

November 05, 2013

Robert Sutherland Northern Lights Oil Company, LLC PO BOX 164 ANDOVER, KS 67002-0164

Re: ACO1 API 15-137-20652-00-00 Goings 1 NE/4 Sec.20-05S-23W Norton County, Kansas

**Dear Production Department:** 

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Robert Sutherland Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner Sam Brownback, Governor

November 12, 2013

Robert Sutherland Northern Lights Oil Company, LLC PO BOX 164 ANDOVER, KS 67002-0164

Re: ACO-1 API 15-137-20652-00-00 Goings 1 NE/4 Sec.20-05S-23W Norton County, Kansas

Dear Robert Sutherland:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 07/06/2013 and the ACO-1 was received on November 05, 2013 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

**Production Department**