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Kansas Corporation Commission
Oil & Gas Conservation Division

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

915114 Form ACO-1 June 2009

All blanks must be Filled

June 2009 Form Must Be Typed Form must be Signed

OPERATOR: License #5474	API No. 15 - 137-20608-0000
Name: Northern Lights Oil Co., L.C.	Spot Description:
Address 1: PO Box 164	Spot Description:
Address 2:	
City: Andover State: KS Zip: 67002 +,	
Contact Person: Robert Sutherland	Footages Calculated from Nearest Outside Section Corner:
Phone: (316) 305-0493	✓ NE □NW □SE □SW
CONTRACTOR: License #4958	County: Norton
Name: Mallard J.V.	Lease Name: Hazlett Well #: 1
Wellsite Geologist: Rocky Milford	Field Name:
Purchaser: NCRA	Producing Formation: Lansing Kansas City
i dicilasci.	Elevation: Ground: 2270 Kelly Bushing: 2275
Designate Type of Completion:	
✓ New Well Re-Entry Workover	Total Depth: 3850 Plug Back Total Depth:
□ oil □ wsw □ swo · □ slow ,	Amount of Surface Pipe Set and Cemented at: 218 Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used? ✓ Yes ☐ No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: 1899 Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from: 1899
Cathodic Other (Core, Expl., etc.):	feet depth to: surface w/ 175sx sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 800 ppm Fluid volume: 850 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD ☐ Conv. to GSW	Dewatering method used: _Evaporate and Backfill
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	
Dual Completion Permit #:	Operator Name: CONFIDENTIAL Lease Name: License #: Lice
SWD Permit #:	
ENHR Permit #:	QuarterSecTwp. Crast 5 2014 East West
Permit #:	County: Permit # CC
6/22/12 6/30/12 6/30/12	NOC .
Spud Date or Date Reached TD Completion Date or	
per seo refort Recompletion Date	
	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita,
	conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information quested in writing and submitted with the form (see rule 82-3-107 for confiden-
a the state of the	ell report shall be attached with this form. ALL CEMENTING TICKETS MUST
BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 for	orm with all temporarily abandoned wells.
AFFIDAVIT	KCC Office Use ONLY
I am the affiant and I hereby certify that all requirements of the statutes, rules and	V Latter of Confidentiality Desciused
lations promulgated to regulate the oil and gas industry have been fully complied and the statements herein are complete, and correct to the best of my knowled	α with β = α α β β β β
	Confidential Release Date:
Signatura (1) 1	Wireline Log Received
Signature: A C C C C C C C C C C C C C C C C C C	Geologist Report Received
Title: Managing PartNERDate: 8/21/12	UIC Distribution
44	ALT I III Approved by: /// Date:

Operator Name: Nort	perator Name: Northern Lights Oil Co., L.C. Leas			Name: _	Hazlett		_Well #:1_		
Sec. 20 Twp.5	s. R. <u>23</u>	☐ East ✓ West	County	/: Norto	on				·
time tool open and clos	ed, flowing and sho s if gas to surface to	nd base of formations pe ut-in pressures, whether est, along with final chart al well site report.	shut-in pres	sure rea	ched static level	hydrostatic pres	sures, bottom l	hole temp	perature, fluid
Drill Stem Tests Taken (Attach Additional St	nee(s)	✓ Yes No		. VL	og `Formatio	n (Top), Depth ar	nd Dätum		Sample
Samples Sent to Geolo		✓ Yes No		Nam	e Corral		Тор 1,894		Datum 381
Cores Taken		Yes No		Topék	·- -		3,204		929
Electric Log Run Electric Log Submitted Electronically (If no, Submit Copy) Yes No (If no, Submit Copy)				Heebr			3,402	-1	1127
		Yes ✓ No		Lansir		•	3,444,	-	1169
				Arbuc	•		3,836	-1	561
List All E. Logs Run: Cement Bond Log, RAG Log, GEO LOG			•		Depth	,	3,848	-1	1573
cement bond t	Log, INAC Lo	9/							
		CASING Report all strings set	RECORD	✓ Ne	. —	ion, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei Lbs.		Setting Depth	Type of Cement	# Sacks Used		and Percent Additives
Surface	12 1/4"	8 5/8"	20		218	common	175	3%сс,	2%gel
Production	7 7/8"	5 1/2"	14		3849	common	175	10%salt, 2	2%gel, 5% gilsonite
•		,							<u> </u>
		ADDITIONA	L CEMENTI	NG / SQL	JEEZE RECORD			•	
Purpose: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks	s Used	-	Type and I	Percent Additives	š ,	3
Protect Casing Plug Back TD	·							,	
Plug Off Zone					•				
Shots Per Foot		ION RECORD - Bridge Plu Footage of Each Interval Pe				cture, Shot, Cemen		iq	Depth
4	3588-3594				1000 gallon	s 15% NE acid			3572'
				•		01-15-15-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
	- ·					ONFIDENT	IAL		RECEIVE
		,		,	2	SEP 0 5 20	l i	:	EP 05 2
						KCC		. 40	
TUBING RECORD: 2	Size: 7/8"	Set At: 3656'	Packer A	At:	Liner Run:	Yes No		KC	C WICH
Date of First, Resumed F 7-18-2012	Production, SWD or El	NHR. Producing Me	thod;	ng 🔲	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil 70	Bbls. Gas 0	Mcf	Wat	ter E		Gas-Oil Ratio		Gravity
DISPOSITIO	N OF GAS:		METHOD OF	F COMPLI	ETION:		PRODUCTI	ON INTER	RVAL:
✓ Vented Sold	Used on Lease	Open Hole	Perf.			mmingled 3	588-3594		·
(If vented, Subr	nit ACO-18.)	Other (Specify)		(Submit	АСО-5) (Sub 	omit ACO-4)			

STING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

Well Name & No. Hazlett #1		Test No	Date _	
Company Northern Lights Co.		* *	2.75 KB_	2270 GL
Address CO Box 164 Andare				
Co. Rep/Geo. ROCKY Milford	,	Rig Mallar	d #1	
Location: Sec. 20 Twp. 5s	Rge. 23	_co. <u>Norton</u>		State <u>K</u> S
Interval Tested 3405 - 3465	Zone Tested		· .	·
Anchor Length 60	_ Drill Pipe Run	316	Mud Wt.	9.1
Top Packer Depth 340	Drill Collars Run	24	<u>0</u> ′	49
Bottom Packer Depth 3405	Wt. Pipe Run		Ø WL	8.8
Total Depth 3465	Chlorides	800 ppm S	ystem LCM	2#
Blow Description IF - Surge blow	died in 15	min. R	ECEIVED	
Is- NO Return		SE	P 0 5 2012	
FF- No Blaw			•	
FS-NO Return		KCC	WICHITA	· · · · · · · · · · · · · · · · · · ·
Rec Feet of MV&	· · · · · · · · · · · · · · · · · · ·	%gas	%oil	%water /🏡 %mud
Rec Feet of		%gas	%oil	%water %mud
Rec Feet of		%gas	%oil	%water %mud
Rec Feet of		%gas	%oil	%water %mud
RecEeet of		%gas	%oil	%water %mud
Rec Total BHT	Gravity	API RW@_	°F Chloride	esppm
(A) Initial Hydrostatic 1669	/ Test		T-On Location _	2:20 pm
(B) First Initial Flow	Jars		T-Started	3: 32 Pm
(C) First Final Flow	☐ Safety Joint	<u></u>	T-Open	6.00 PM
(D) Initial Shut-In	Circ Sub	N/C	T-Pulled	CE WI COM
(E) Second Initial Flow	☐ Hourly Standby		T-Out	
(F) Second Final Flow	Mileage		Comments	1 - 35,
(G) Final Shut-In	☐ Sampler	CONFID	ENTIAL	, ;.
(H) Final Hydrostatic				Packer
	☐ Shale Packer		S Ruined Pack	er
Initial Open 30	☐ Extra Packer	K(Extra Copies	
Initial Shut-In	☐ Extra Recorder	•	Sub Total	
Final Flow	☐ Day Standby		Total	4
Final Shut-In36	☐ Accessibility	•	MP/DST Disc't	4
	Sub Total		- Store	1
Approved By		Representative	1/4	
Trilobite Testing Inc. shall not be liable for damaged of any kind of the property of equipment, or its statements or opinion concerning the results of any test, tools I	personnel of the one for whom a ost or damaged in the hole shall be	test is made, or for any loss suf e paid for at cost by the party fo	fered or sustained, directly or whom the test is made.	or indirectly, through the use of its



Northern Lights Oil Co., L.C.

20-5s-23w-Norton-KS

PO Box 164

Andover, KS 67002

ATTN: Rocky Milford

Haziett #1

Job Ticket: 47052

Test Start: 2012.06.26 @ 15:32:00

GENERAL INFORMATION:

Toronto - LKC "A"

Deviated:

Nó Whipstock: ft (KB)

Tester:

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 18:00:30

Time Test Ended: 21.44:00

Unit No:

Kevin Mack

Reference Elevations:

2275.00 ft (KB) 2270.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval: Total Depth: Hole Diameter:

3465.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

3405.00 ft (KB) To 3465.00 ft (KB) (TVD)

Start Date:

Serial #: 8844 Press@RunDepth:

21.54 psig @

End Date:

2012.06.26

Last Calib.: Time On Btm:

Capacity:

8000.00 psig 2012.06.26

Start Time:

2012.06.26 15:32:00

End Time:

21:44:00

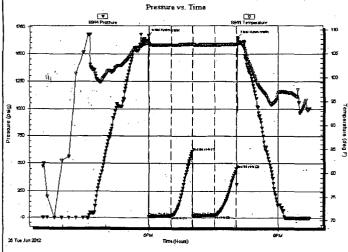
2012.06.26 @ 17.59:30

Time Off Btm:

2012.06.26 @ 20:03:00

TEST COMMENT: 30 - IF- Surface blow died in 15 min.

30 - IS- No Return 30 - FF- No Blow 30 - FS- No Return.



PRESSURE SUMMARY						
Γ	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
1	0	1669.78	107.13	initial Hydro-static		
	1	13.48	106.86	Open To Flow (1)		
l	32	17.46.	106.80	Shut-In(1)		
	61	610.64	107.02	End Shut-In(1)		
	62	18.87	106.88	Open To Flow (2)		
1	92	21.54	106.87	Shut-In(2)		
	· 122	451.88	107.01	End Shut-In(2)		
1	124	1651.87	107.25	Final Hydro-static		
1	•					
ĺ						
l						
1						
1						

Recovery Length (ft) Description Volume (bbl) 5.00 Mud 100M 0.02

Gas Rates

Choke (inches) Pressure (psig)

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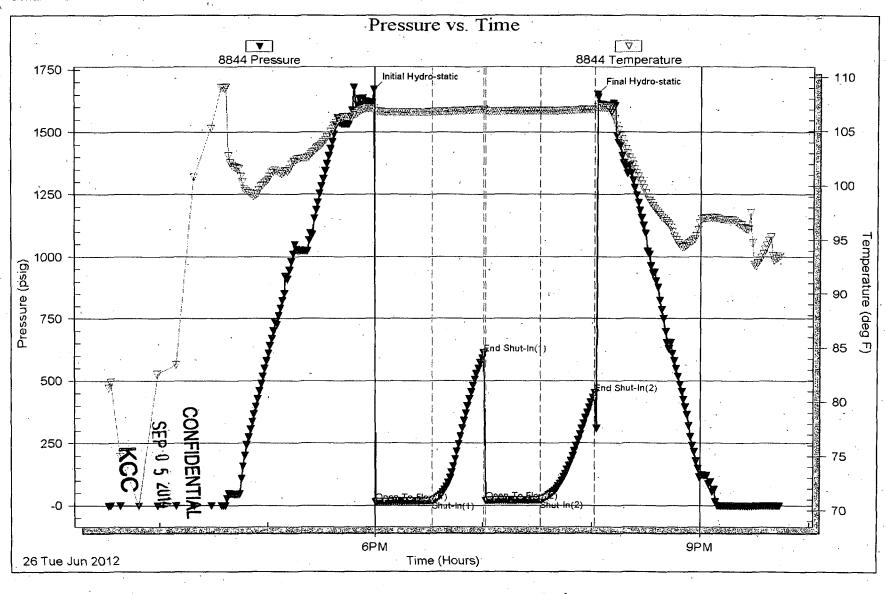
Trilobite Testing, Inc.

Ref. No: 47052

Printed: 2012.06.26 @ 21:50:19

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Printed: 2012.06.26 @ 21:50:19



Trilobite Testing, Inc.

Ref. No: 47052

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SEP 05 2012



P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

Well Name & No. Huzlett #1	Test No	Date (-27-/2
Company Northern Lights Gil		
	Ks 672002	
Co. Rep/Geo. Rocky Milford	Rig Mullar	d #1 !
Location: Sec. 20 Twp. 5s	Rge	ton State /C 5
Interval Tested 3462 - 3488	Zone Tested LKC	B
Anchor Length26'	Drill Pipe Run 320	Mud Wt. 9/
Top Packer Depth 3458	Drill Collars Run	10' Vis 49
Bottom Packer Depth 3462	Wt. Pipe Run	8 WL 78
Total Depth 3-188	Chloridesppm S	System LCM
Blow Description IF-Bobia 12 r	nin.	RECEIVED
Is- Mo Return		SEP 0 5 2012
FF-BOB in 16 min		KCC WICHITA
Rec 272 Feet of MW	%gas	%oil 50 %water 50 %mud
Rec 246 Feet of MW	%gas	%oil \$ ○ %water \$ ○ %mud %oil \$ ○ %water \$ ○ %mud
Rec Feet of		%oil %water %mud
Rec Feet of		%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Total 5 2 BHT 107	Gravity API RW@	°F Chlorides 3600 ppm
(A) Initial Hydrostatic 1738	, 🔀 Test	T-On Location 4:10 AM
(B) First Initial Flow	☐ Jars	T-Started 4;15 AM
(C) First Final Flow	□ Safety Joint	T-Open 6:06 Am
(D) Initial Shut-In 195	Ø Circ Sub	T-Pulled & OC AM
(E) Second Initial Flow	☐ Hourly Standby	T-Out 9.50 Am
(F) Second Final Flow	⊠ Mileage /// RT	Comments
(G) Final Shut-In	☐ Sampler	
(H) Final Hydrostatic / 15 /	☐ Straddle	☐ Ruined Shale Packer
2	□ Shale Packer CONFIDENTIA	☐ Ruined Packer
Initial Open30	☐ Extra Packer SFP 0 5 Z014	☐ Extra Copies
Initial Shut-In30	□ Extra RecorderKCC	Sub Total
Final Flow30	Day Standby	Total
Final Shut-In30	☐ Accessibility	MP/DST Disc't
	Sub Total	ATT
Approved By	Our Representative	KARAN)
Trilobite Testing Inc. shall not be liable for damaged of any kind of the property equipment, or its statements or opinion concerning the results of any test, tools	or personnel of the one for whom a test is made, or for any loss suit lost or damaged in the hole shall be paid for at cost by the party fo	ffered or sustained, directly or indirectly, through the use of its or whom the test is made.



Northern Lights Oil Co., L.C.

20-5s-23w-Norton-KS

PO Box 164

Andover, KS 67002

Hazlett #1 -Job Ticket: 47053

ATTN: Rocky Milford

Test Start: 2012.06.27 @ 04:15:00

GENERAL INFORMATION:

Time Tool Opened: 06:05:30

Time Test Ended: 09:50:30

Formation:

LKC "B"

Deviated:

Interval:

Total Depth:

Start Time:

Hole Diameter:

No -

Whipstock:

3462.00 ft (KB) To 3488.00 ft (KB) (TVD)

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Kevin Mack

Unit No:

2275.00 ft (KB)

Reference Elevations

2270.00 ft (CF)

3488.00 ft (KB) (TVD) 7.88 inches Hole Condition: Good

KB to GR/CF:

PRESSURE SUMMARY

5.00 ft

Serial #: 8844.

Press@RunDepth:

253.99 psig @

04:15:00

2012.06.27

Capacity:

8000.00 psig 1

Last Calib ::

2012.06.27 2012.06.27 @ 06:04:30

Time Off Btm:

2012.06.27 @ 08:08:30

Start Date:

2012.06.27

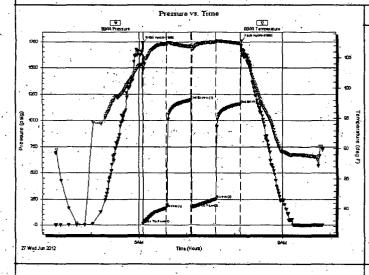
End Date: End Time:

09:50:30

Time On Btm:

TEST COMMENT: 30 - IF- BoB in 12 min.

30 - IS- No Return 30 - FF- BoB in 16 min. 30 - FS- No Return



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1738.10	103.91	Initial Hydro-static
1	15.24	103.05	Open To Flow (1)
30	164.08	107.35	Shut-In(1)
61	1195.08	106.86	End Shut-In(1)
62	170.03	106.46	Open To Flow (2)
92	253.99	107.62	Shut-In(2)
123	1159.75	107.42	End Shut-In(2)
. 124	1757.89	107.03	Final Hydro-static
		I	l . '-

Recovery

Length (ft)	Description	Volume (bbi)
240.00	MW 15M 85W	1.18
282.00	MW 50M 50W	3.96
-		
. ,		
····		

Gas-Rates

Choke (Inches) Pressure (psig)

Gas Rate (Mcf/d)

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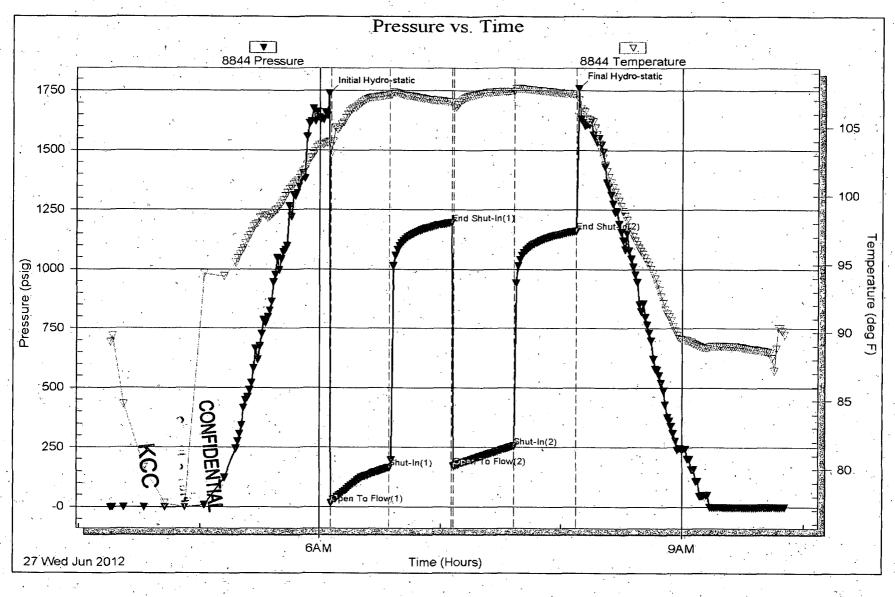
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Trilobite Testing, Inc.

Ref. No: 4705

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P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

 						
Well Name & No. Hozlett	#1		Test No	3	Date	7-12
Company Northern Lig	hts Oil C	5., L.C.	Elevation _	2275	кв22	278 GL
<i>ل ب</i> ر ـ ` ۸	Andour					
Co. Rep / Geo. Rocky Mil	ford		Rig <u> </u>	Murd##		
Location: Sec Twp.	5 <u>\$</u> Rge	· _ 23w	co. <i></i>	orton	State	KS
Interval Tested 348	5-3526	Zone Tested	LK	C"D-	F"	ناع
Anchor Length	41'	Drill Pipe Run		3232	Mud Wt.	9.2
Top Packer Depth	3481	Drill Collars Run) 1	240'	Vis	56
Bottom Packer Depth	3485	Wt. Pipe Run		Ø	WL :	6.8
Total Depth	3526	Chlorides	800	pm System	LCM	2#
Blow Description IF - Veuk	Surface E	low die	d in o	min.	RECEIVED	
IS- NO F	Ceturn .	· · · · · · · · · · · · · · · · · · ·	· ·		SEP 0 5 2012	·)
FF Phil	ed pipe	AFter	IS	· .		•
+5-	·		· .	. P	CC WICHIT	4
Rec Feet of Muc	(· · · · · · · · · · · · · · · · · · ·	%gas	%oil	%water	/CO %muc
Rec Feet of	·-····································	•	%gas	%oil	%water_	%muc
Rec Feet of			%gas	%oil_	%water_	%muc
Rec Feet of			%gas	%oil	%water	%muc
Rec Feet of	101		%gas	%oil	%water	%muc
Rec Total BH	/	rity	_API RW	_@ _ _°	F Chlorides	ppm
(A) Initial Hydrostatic /	166 , ¢	Test			ocation	50 PM
(B) First Initial Flow	5	Jars		T-Star	·	2 ///
(C) First Final Flow	/ .	Safety Joint		T-Ope		5 P11
(D) Initial Shut-In	<u> </u>	Circ Sub	NIC		ed (0-3775) 12:27	5 PM
(E) Second Initial Flow		Hourly Standby		T-Out	/	y Arri
(F) Second Final Flow	×	Mileage	10 RT		ients	
(G) Final Shut-In		Sampler		_ · <u></u>		
(H) Final Hydrostatic	18	Straddle	CONFIDENTIA	- □ Ri	uined Shale Packer	
	30	Shale Packer	CCD 11 & 71114		uined Packer	
Initial Open		Extra Packer		•	tra Copies	
Initial Shut-In	<u>30</u>	Extra Recorder	KCC		otal	
Final Flow	50 0	Day Standby		Total_		
Final Shut-In	20 0	Accessibility		MP/D	ST Disc't	
\$	Su	Total			with.	
Approved By		O	ur Representative		1 ANON	
Trilobite Testing Inc. shall not be liable for damaged of any equipment, or its statements or opinion concerning the re:	kind of the property or persor sults of any test, tools lost or d	inel of the one for whom amaged in the hole shal	n a test is made, or for any Il be paid for at cost by the	loss suffered or sust party for whom the t	ained, directly or indirectly, test is made.	through the use of its



Northern Lights Oil Co., L.C.

20-5s-23w-Norton-KS

PO Box 164

Andover, KS 67002

Hazlett #1 Job Ticket: 45074

ATTN: Rocky Milford

Test Start: 2012.06.27 @ 19:12:00

GENERAL INFORMATION:

Time Tool Opened: 21:32:30

Time Test Ended: 00:19:00

Deviated:

interval:

Total Depth:

Start Time:

Hole Diameter:

·No Whipstock:

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Kevin Mack

Unit No:

Reference Bevations:

2275.00 ft (KB) ·

KB to GR/CF: 5

2270.00 ft (CF) 5.00 ft

7.88 inches Hole Condition: Good

3485.00 ft (KB) To 3526.00 ft (KB) (TVD)

Serial #: 8845

Press@RunDepth: Start Date:

15.10 psig @

3526.00 ft (KB) (TVD)

ft (KB)

2012.06.28

Capacity: Last Calib.: 8000.00 psig

Time On Btm:

2012.06.28 2012.06.27 @ 21:31:30

Time Off Btm:

2012.06.27 @ 22:37:30

2012.06.27 19:12:00

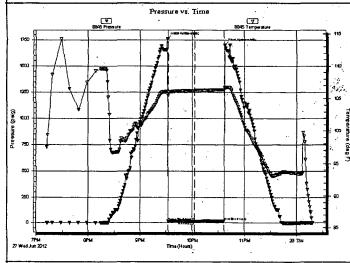
End Date: End Time:

00:19:00

TEST COMMENT: 30 - IF- Weak Surface blow died in 2 min.

30 - IS- No Return

Pulled Pipe after initial shut in period.



			VE COO!	T OCIAIIAIVI	
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)	1	•
	0	1760.41	106.14	Initial Hydro-static	٠ ق
	1	15.63	105.49	Open To Flow (1)	•
	31	15.10	106.23	Shut-In(1)	
-	65	19.63	106.37	End Shut-In(1)	
	66	1698.85	106.69	Final Hydro-static	
Termeratura (dan F				- 1 (A)	:
	,			,	-
	. T.				

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)		
5.00	Mud 100M	0.02		
		2 to 1 to 2 to 2 to 2 to 2 to 2 to 2 to		

Gas Rates

Choke (inches) Pressure (psig)

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Trilobite Testing, Inc

Ref. No: 45074

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SEP 0 5 2012

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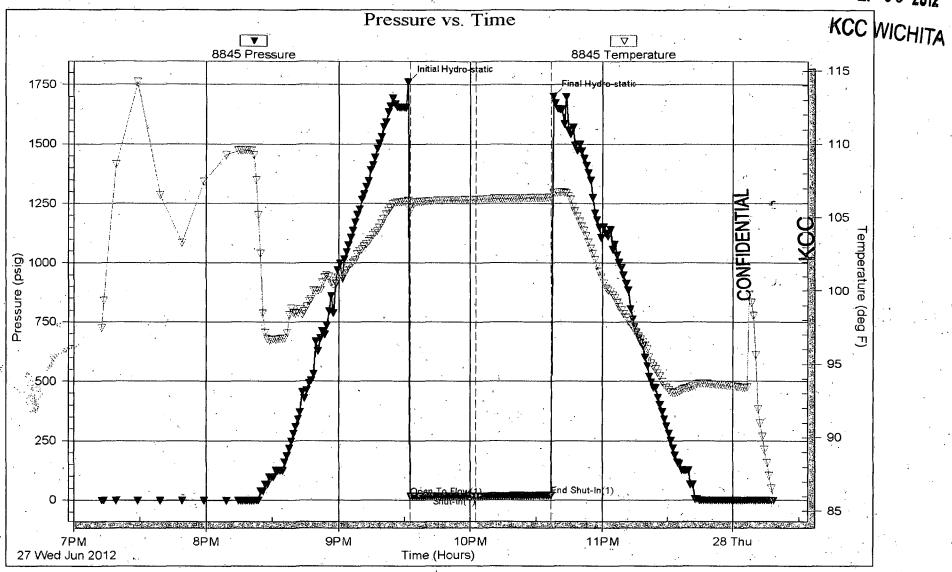
Serial #: 8845

Northern Lights Oil Co., L.C.

Hazlett #1

DST Test Number: 3

SEP 05 2012





P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

					
Well Name & No. How lett #1		Test No	Date	6-27 -	/2
Company Northern Lighty Gil C	Os, L.Cs	Elevation	275 KE	2270	GL
Address PO Box 164 Andover,		. •			
Co. Rep/Geo. RUCKY Milford		Rig Malk	rd #1		
Location: Sec. 20 Twp. 53	_ Rge	co. Nort	00	State KS	
Interval Tested 3541 - 3572	Zone Tested	11	(1/11)	,	
Anchor Length 3/	Drill Pipe Run	226.2	Mud W	vt. 9.2	
Top Packer Depth 3537	Drill Collars Run	2.	<u>0</u> ′ Vis _	51	
Bottom Packer Depth 354/	Wt. Pipe Run		8 WL _	7.2	
Total Depth 3572	Chlorides	800 ppm S	ystem LCM _	1#	
Blow Description IF - Weisk Sulface	e How did	in 120 min.		RECEIV	'ED
Is No Return	·		·	SEP 05	2012
FF- Pulled tox as	ter initial	Shur in	Percel	KCC WICL	11-
FS-WA	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·	- VIUF	TITA
Rec Feet of		%gas	%oil	%water / CO	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total BHT US	Gravity		F Chlori	Que	ppm
(A) Initial Hydrostatic 1760	, ⊠ Test		T-On Location	9:00	1 -2
(B) First Initial Flow	☐ Jars	· · · · · · · · · · · · · · · · · · ·	T-Started	11:20/	12
(C) First Final Flow	☐ Safety Joint	. 10	T-Open T-Pulled	12:22	400
	Circ Sub	/	T-Out	2:04 P	M
(E) Second Final Flow	☐ Hourly Standby _		Comments	7	
(F) Second Final Flow		110 RT		977	
(G) Final Shut-In	☐ Sampler				-
(H) Final Hydrostatic 110/	Straddle	CONFIDENTIAL	□ Ruined Sh	ale Packer	
Initial Open	☐ Shale Packer	C 3 1 5 (VI)	☐ Ruined Pa	cker	
Initial Shut-In	☐ Extra Packer			es	
Final Flow	☐ Extra Recorder _			:	
Final Shut-In	☐ Day Standby	•			
	☐ Accessibility Sub Total	•	MP/DST Disc	.'t	·
Approved By Foliat & Milliand			Main	×.	
Trilobite Testing Inc. shall not be liable for damaged of apprint of the property of	or personnel of the one for whom:	r Representativea test is made, or for any loss suff	ered or sustained, direct	ly or indirectly, through the	e use of its
equipment, or its statements or opinion concerning the results of any test, tools	ioscor damaged in the hole shall	be paid for at cost by the party for	wnom the test is made.		



Northern Lights Oil Co., L.C.

20-5s-23w-Norton-KS

PO Box 164

Andover, KS 67002

Hazlett #1

Job Ticket: 47055

ATTN: Rocky Milford

Test Start: 2012.06.28 @ 09:20:00

GENERAL INFORMATION:

Time Tool Opened: 11:22:30

Time Test Ended: 14:04:00

Formation:

LKC "H"

Deviated:

Whipstock: No

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Kevin Mack

Unit No:

Reference Elevations:

2275.00 ft (KB)

2270.00 ft (CF)

Interval: Total Depth: 3541.00 ft (KB) To 3572.00 ft (KB) (TVD)

3572.00 ft (KB) (TVD)

KB to GR/CF:

- 5.00 ft

Hole Diameter:

Serial #: 8845

7.88 inches Hole Condition: Good

2012.06.28

Capacity: Last Calib .: 8000.00 psig

Start Date: Start Time:

Press@RunDepth:

13.83 psig @ 2012.06.28 09:20:00

End Date: End Time:

14:04:00

Time On Btm.

2012.06.28 2012.06.28 @ 11:22:00

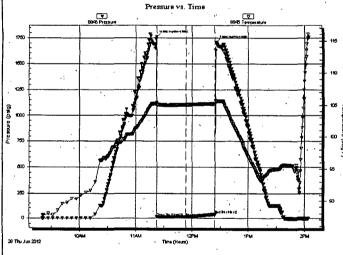
Time Off Btm:

2012.06.28 @ 12:25:30

TEST COMMENT: 30 - IF- Weak surface blow died in 12 min.

30 - IS- No Return

Puled tool after initial shut in period



	n	PI	RESSUR	E SUMMARY
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	. 0	1760.56	105.31	Initial Hydro-static
	1	13.36	105.01	Open To Flow (1)
	32	13.83	105.06	Shut-In(1)
_	62	41.97	105.24	End Shut-in(1)
empe	64	1707.28	105.63	Final Hydro-static
Temperature (deg F)				

Recovery

Length (ft)	Description	Volume (bbl)		
5.00	Mud 100M	0.02		

Gas Rates

Chake (inches) Pressure (psig)

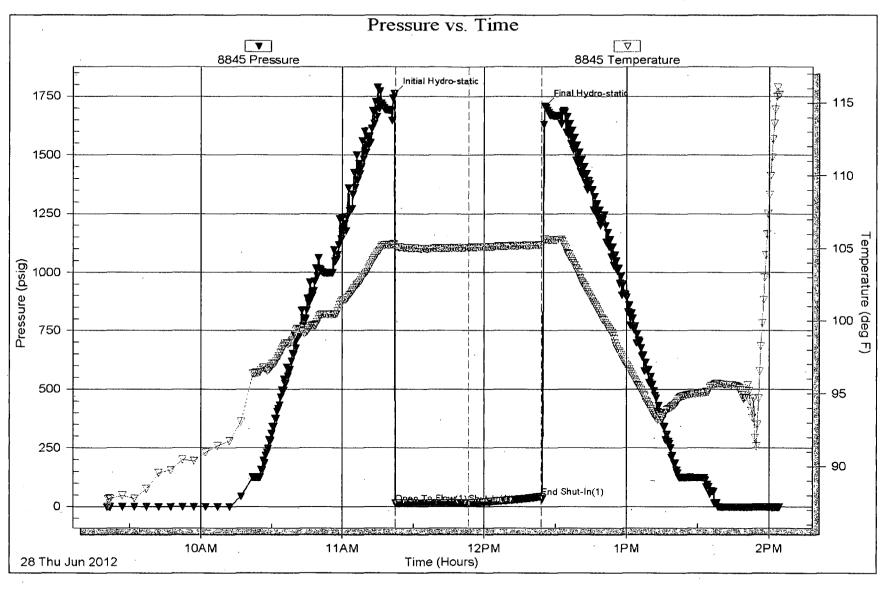
Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 47055

Printed: 2012.06.28 @ 14:10:24

RECEIVED SEP 05 2012



Trilobite Testing, Inc.

Ref. No: 47055

RECEIVED SEP 0 5 2012 KCC WICHITA

Printed: 2012.06.28 @ 14:10:25



P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

- See S					
Well Name & No. Hazlett #1		Test No.	5o	ate <u>6-28</u>	-/2
Company Northern Lights Oil)GL
Address PO BOX 164 And over	KS 67200	5 <u>2</u>	·		
Co. Rep/Geo. Rixky Milford		Rig Ma	116rd #1	· · · · · · · · · · · · · · · · · · ·	· .
Location: Sec. 20 Twp. 55	Rge. <u> </u>	Co Nor-	tun	State <u></u>	<u> </u>
Interval Tested 3562 - 3602	Zone Tested	i L	K "T"		
Anchor Length 34	Drill Pipe Run	` ~	Muc	1 Wt. 9.	2 .
Top Packer Depth3564	 Drill Collars Run	<u> </u>	3/12/	5/	
Bottom Packer Depth 35/8	•		WL	7.2	
Total Depth 3602	Chlorides	SCO pp	m System LCN	1 4	
T-RD	o sec	· · ·		DECEN	JED.
IS- BOB in 16	min			RECEI	
FF-BOBINS	50 Sec.			SEP 05	2012
	4 min.			KCC WI	CHITA
Rec 2730 Feet of Cleur Guss	1 Gil	40%gas 6	○ %oil	%water	%mud
Rec 120 Feet of (COOST TOTAL C)	, ssy Oi	20 %gas 8	O %oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of	71	%gas	%oil	%water	%mud
Rec Total 2850 BHT 109	Gravity \rightarrow	API RW	@°F Ch	lorides	ppm
(A) Initial Hydrostatic 1783	, 💆 Test		T-On Locati	on 8:45	PM
(B) First Initial Flow 183	☐ Jars		T-Started _	8-57	PM
(C) First Final Flow 623	☐ Safety Joint		T-Open	11:02	4-1
(D) Initial Shut-In 1246	💆 Circ Sub		T-Pulled/**	(311 1	M
(E) Second Initial Flow	☐ Hourly Standby_		T-Out Comments (200 to 500	Face
(F) Second Final Flow 8977	Mileage	ORT	- CLF	81 Shet in	
(G) Final Shut-In	☐ Sampler		- Revers		after
(H) Final Hydrostatic \(\frac{1}{5}\frac{3}{5}\).	☐ Straddle		- □ Ruined	Shale Packer_	' \$
7.	☐ Shale Packer		— □ Ruined	Packer	
Initial Open	☐ Extra Packer	· · · · · · · · · · · · · · · · · · ·	_ □ Extra Co	opies	
Initial Shut-In	☐ Extra Recorder _			**	
Final Flow	Day Standby	·	Total		
Final Shut-In 60	☐ Accessibility		_ MP/DST D	isc't	
	Sub Total		- <i>N</i>	1-	
Approved By		r Representative			
Trilobite Testing Inc. shall not be liable for damaged of any kind of the propert equipment, or its statements or opinion concerning the results of any test, too	y or personnel of the one for whom a lols lost or damaged in the hole shall	a test is made, or for any los be paid for at cost by the pa	ss suffered or sustained, di arty for whom the test is ma	rectly or indirectly, throu ide.	gh the use of its



Northern Lights Oil Co., L.C.

20-5s-23w-Norton-KS

PO Box 164

Andover, KS 67002

Hazlett #1

Job Ticket: 47056

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.06.28 @ 20:57:00

GENERAL INFORMATION:

Formation:

LKC "J"

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Kevin Mack

Unit No:

43

2275.00 ft (KB)

Reference Bevations:

2270.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval: Total Depth:

Hole Diameter:

Serial #: 8845 Press@RunDepth:

3568.00 ft (KB) To 3602.00 ft (KB) (TVD)

Time Tool Opened: 23:02:30

Time Test Ended: 05:11:00

3602.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

Capacity:

8000.00 psig

Start Date: Start Time:

897.22 psig @ 2012.06.28 20:57:00

ft (KB) End Date:

End Time:

2012.06.29 05:11:00

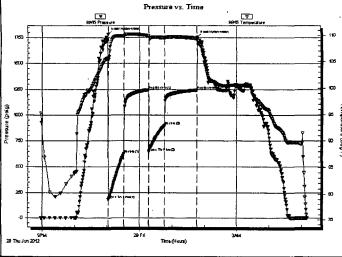
Last Calib.: Time On Btm: 2012.06.29

Time Off Btm:

2012.06.28 @ 23:01:30 2012.06.29 @ 01:47:30

TEST COMMENT: 30 - IF- BoB in 50 sec.

45 - IS- BoB in 16 min. 30 - FF- BoB in 50 sec. 60 - FS- BoB in 14 min.



	PRESSURE SUMMARY							
	Time	Pressure	Temp	Annotation				
	(Mn.)	(psig)	(deg F)	·				
	0	1783.97	105.60	Initial Hydro-static				
	1	183.83	105.33	Open To How (1)				
	30	623.95	109.80	Shut-ln(1)				
4	75	1246.80	109.88	End Shut-in(1)				
empe	76	643.25	109.54	Open To Flow (2)				
Temperature (deg F	105	897.22	109.50	Shut-In(2)				
(deg	165	1244.21	109.38	End Shut-In(2)				
J	166	1753.94	109.34	Final Hydro-static				
				Í				

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface at Final Shut in	0.00
120.00	clean gassy oil 80o 20G	0.59
2730.00	clean gassy oil 60o 40G	37.20

Gas Rates

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

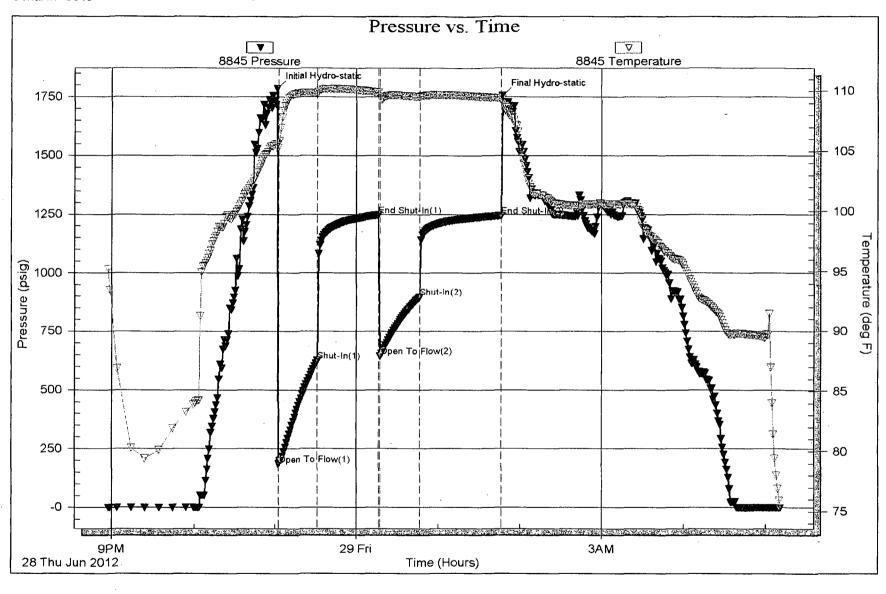
Trilobite Testing, Inc.

Ref. No: 47056

Printed: 2012.06.29 @ 05.21.47 RECEIVED

SEP 05 2012

Printed: 2012.06.29 @ 05:21:47



Trilobite Testing, Inc.

Ref. No: 47056

RECEIVED
SEP 0 5 2012

CEMENTING, INC.

 	17.3	4 42					reat
 	700	400.0	005		٠,	ı i .	 O44:-

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

No. 886

Cell 785-324-1041	<u>and the second of the second </u>	<u> 1. 1948 - 2000, </u>	Jan St. March		<u>: </u>
Sec.	Twp. Range	County	State	On Location	Finish Ol
Date Lo-30/12/20	5 23	NORTON	KANSOS		3,450
Lease HAZIETT V	Veil No. #1	Location Huy 28	3+9-3w-	15-1w-	15-W-INT
Contractor MAU ARD]	SPILING		OPTHERN	LICHTS.	
Type Job 2 STAGE		To Quality C	Dilwell Cementing, Inc. reby requested to rent	cementing equipme	nt and furnish
Hole Size 778"	T.D. 3850'	cementer a	nd helper to assist owr	ner or contractor to o	o work as listed.
Csg. 55-14#- NEW	Depth 3849	Charge To	LOETHERN	LIGHTS	4
Tbg. Size	Depth	Street P	Box 164	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Tool DV@ 1899	Depth 20.89	City Ans	DOVER	State KS	L7002_
Cement Left in Csg.	Shoe Joint 20.89	The above w	as done to satisfaction ar	nd supervision of owner	r agent or contractor.
Meas Line	Displace 47 nus 415	CANTILLE CO.	nount Ordered 175	Com 10 Saut	58 GIC 268 - 4
EQUIPN	· · · · · · · · · · · · · · · · · · ·	5)		· · · · · · · · · · · · · · · · · · ·	
Pumptrk No. Cementer Helper	ATT	Common	75	· · · · · · · · · · · · · · · · · · ·	
- Dilvoi	WE -	Poz. Mix			
Bulktrk Du No. Driver ATS	co 	Gel. 2 G	ol RCL	·	
JOB SERVICES	& REMARKS	Calcium		<u> </u>	
Remarks:		Hulis			
Rat Hole		Salt 15			
Mouse Hole		Flowseal 5	Off		
Centralizers 2,4,6,7,8,	10,12,15,46	Kol-Seal S	75#	·	RECEIVED
Baskets 16, 47, 10FT	Ferm Top Cou	AD Mud CLR 4	8 500 gar		MAT A A GIVE
D/V or Port Collar Topof 47	@18991	CFL-117.or	CD110 CAF 38		API 7 5 5015
Deopped BALL, BOOK	CE CIRCLIATION	Sand		K	CC WICHITA
THE DE BOLLOW HOOK	SOCIAL IDUO F	Handling	48		
MIXED 137K3 CEME	EBONGCELA, TW	Mileage.			
MUSHED HD! DIZONG	er and, all	xCx	FLOAT EQUIPMI	ENT	
HELD, ODENED TOO	L, & Re-mosum	Guide Shee	40 52 Kec	SCHOOLAN	
CIRCULATION		Centralizer	9-55		
	CONTINENTIAL	Baskets	<u>l-54"-wea</u>	THERFORD	\$36
	CONFIDERT	AFU Inserts			
	SEP 0 5 2014	Float Shoe	1-56		
	- KCC	Latch Down		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***
		20 gal-	KCL.		
THANK YOU	*	25	tage Tool	(0440 p)	Bottom
		Pumptrk Ch	arge. Prol L	ing String	Stage,
		Mileage	580		, ,
Mark to the resident	<u>n na nakatan baka</u>			Tax	
a distribution of the control of the					
The same of the sa			a la la Regional de la Carlo de la Car La companyación de la Carlo	Discount	

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwith-standing the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.
- ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.
- —PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.
- TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material. CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss of damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct, or gross negligence of QUALITY or its employees.
- 2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.
- 3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical-action in cements caused by contamination of water or other fluids.

 WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation

ship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from of caused by defective materials, products or supplies.

2. More specifically:

181 3 400

(A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

かね うかってるみ

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

They are the common to the common the common of the common	Mark a street of the street	THE REAL PROPERTY OF THE PARTY	939 696 6 9077
Phone 785-483-2025 Cell 785-324-1041	Home Office P.O. B	lox 32 Russell, KS 67665	No. 001
Sec.	Twp. Range	County State	On Location Finish
Date 10-30-12 20	1 - 30	DETON KANSAS	/a 25 an
		ion Hwy283 & 9 - 3w-	12-1-1-1-1-
			12 10 12-10 TNO
Contractor MALARD (DRTUING	To Quality Oilwell Cementing, Inc.	
Type Job 2 STAGE	TD 2050	You are hereby requested to rent cem cementer and helper to assist owner	enting equipment and furnish
Hole Size	T.D. 3850 Depth 3849	Charge	· · · · · · · · · · · · · · · · · · ·
Csg 53-14# NEW		TO NORTHERN LIE	
Tbg. Size	Depth	Street Po Box ILou	
Tool 60 1899	Depth 8901		tate KS, U 1003
Cement Left in Csg.	Shoe Joint 20 89	The above was done to satisfaction and s	upervision of owner agent or contractor.
Meas Line	Displace 47.23313	Cement Amount Ordered 400	IMBC /4 flow
EQUIPN	<i>I</i> ENT		
Pumptik 9 No. Cementer Helper	ATT	Common (O)	
Bulktrk# 12 No. Driver Tea	45	Poz. Mix	
Bulktrk D W No. Driver CT	500	Gel.	
JOB SERVICES	& REMARKS	Calcium	
Remarks:		Hulls	
Rat Hole 30 5K5	Fr right for representations	Salt-	
Mouse Hole 205KS		Flowseal 200#	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48 500 GAL	
D/V or Port Collar		CFL-117 or CD110 CAF 38	March Comments
CIPCULATED 24	OB OUROED	Sand	
500 GAL MUNET	7 7 940	Handling (100)	
→ • • • • • • • • • • • • • • • • • • •	6- may en 350	Mileage	
SKSCEMENT DI		FLOAT EQUIPMENT	
WASHER US DE	more and	Guide Shoe	IKEDEIVED
3 Dreamen - De	LIC HELD	Centralizer	OCT 2 2 2017
	The state of the s	Baskets	LOCALICUTA
	CONFIDENTIAL	AFUInserts	KCC WICHIA
	0=0.0.5.2014	Float Shoe	
	SEP U 5 AUT	Latch Down	
	KCC	Later Bown	
TUANU			100
YTUNK YOU		Pumptrk Charge procl Lon	o Storm The O
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X		tera of a stable of the	Discount
Signature	The same of the state of the	中央文学 Windows College College Technology College	Total Charge

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- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.
- 2. With respect to any of QUALITY'S tools, equipment or instruments which are lost in the well or damaged when performing or attempting to perform the job of, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.
 - 3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:-

- (A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.