



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1226778  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1226778

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Phillips Exploration Co LC  
 211 Cedar Ridge CT  
 PO Box 850  
 Andover Ks 67002-0850  
 ATTN: Jim Phillips

**24-11s-24w Trego**

**Vreeland PC #24**

Job Ticket: 59302

**DST#: 1**

Test Start: 2014.05.27 @ 21:00:30

## GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:55:25

Time Test Ended: 04:12:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

**Interval: 3806.00 ft (KB) To 3846.00 ft (KB) (TVD)**

Reference Elevations: 2432.00 ft (KB)

Total Depth: 3846.00 ft (KB) (TVD)

2427.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8369**

**Inside**

Press@RunDepth: 234.77 psig @ 3811.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.27

End Date:

2014.05.28

Last Calib.:

2014.05.28

Start Time: 21:00:30

End Time:

04:12:24

Time On Btm:

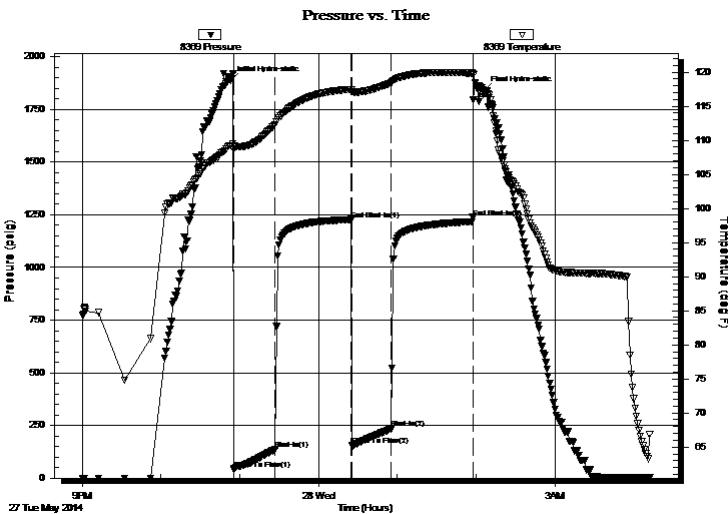
2014.05.27 @ 22:52:55

Time Off Btm:

2014.05.28 @ 02:05:54

**TEST COMMENT:** 30-IFP-w k to strg in 8 min  
 60-ISIP-3/4"bl bk  
 30-FFP-w k to strg in 9 min  
 60-FSIP-3/4"bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.65	109.17	Initial Hydro-static
3	42.99	108.64	Open To Flow (1)
34	136.50	112.33	Shut-In(1)
92	1227.92	117.49	End Shut-In(1)
93	155.78	117.17	Open To Flow (2)
123	234.77	118.42	Shut-In(2)
185	1237.61	119.83	End Shut-In(2)
193	1840.44	116.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	500'GIP	0.00
124.00	Water w/show of oil	1.47
62.00	SO&GCW 10%G5%O85%W	0.87
124.00	MGO 10%G10%M80%O	1.74
186.00	CO	2.61

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Phillips Exploration Co LC

**24-11s-24w Trego**

211 Cedar Ridge CT  
PO Box 850  
Andover Ks 67002-0850  
ATTN: Jim Phillips

**Vreeland PC #24**

Job Ticket: 59302

**DST#: 1**

Test Start: 2014.05.27 @ 21:00:30

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

18 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

68000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	500'GIP	0.000
124.00	Water w/show of oil	1.466
62.00	SO&GCW 10%G5%O85%W	0.870
124.00	MGO 10%G10%M80%O	1.739
186.00	CO	2.609

Total Length: 496.00 ft

Total Volume:

6.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11@70F

Serial #: 8369

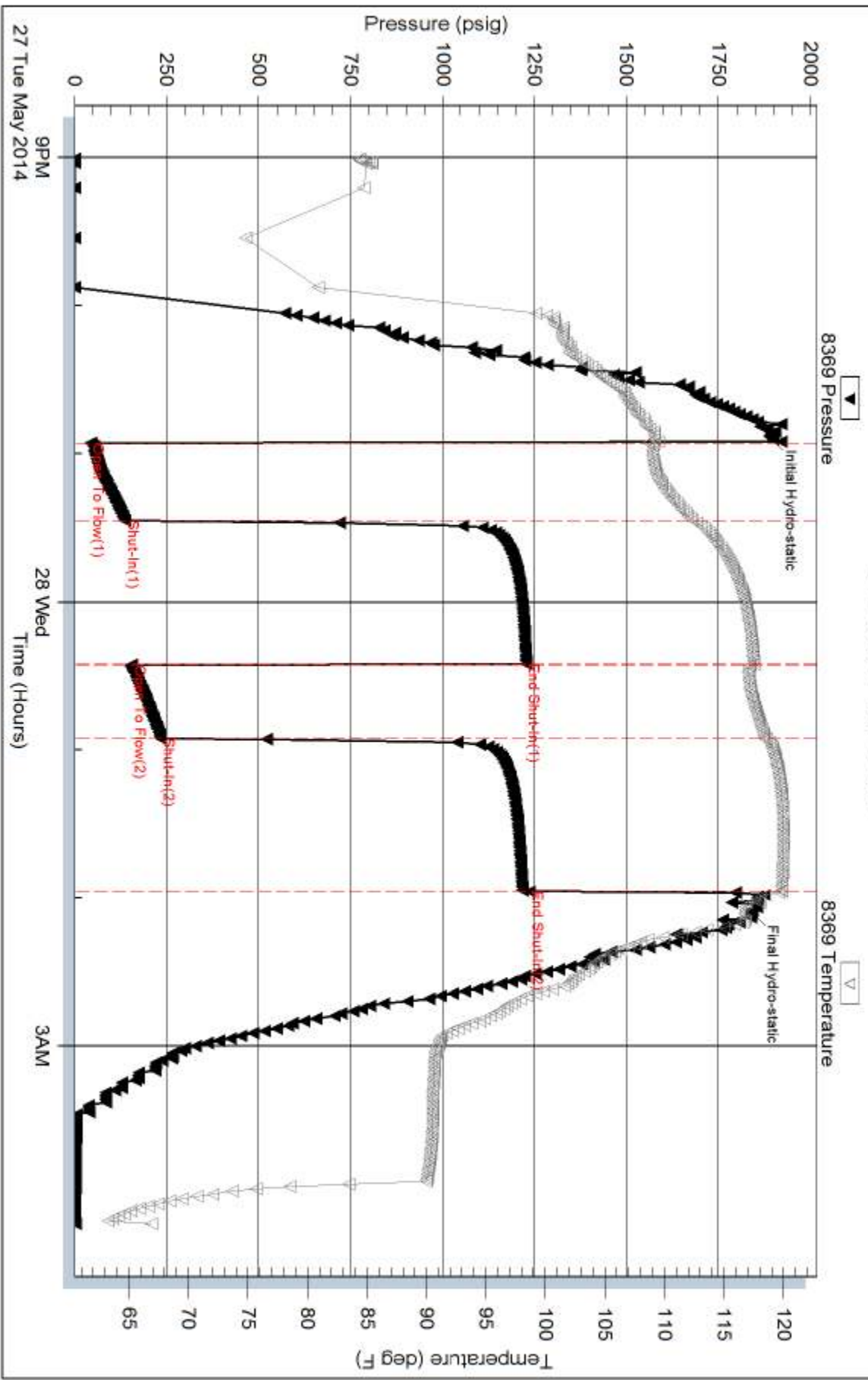
Inside

Phillips Exploration Co LC

Vreeland FC#24

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59302

Printed: 2014.05.28 @ 08:16:49

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 191

Date	5-23-14	Sec.	24	Twp.	11	Range	24	County	Trego	State	KS	On Location		Finish	8:30
								Location Wakeeney N to Rd B 4w 3/4 s E into							

Lease	Vreeland PC	Well No.	24	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Murfin 16				
Type Job	Surface				
Hole Size	12 1/4	T.D.	220'	Charge To	Phillips Exploration
Csg.	8 5/8	Depth	220'	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	20'	Shoe Joint		Cement Amount Ordered	150 com 3% cc 2% gel

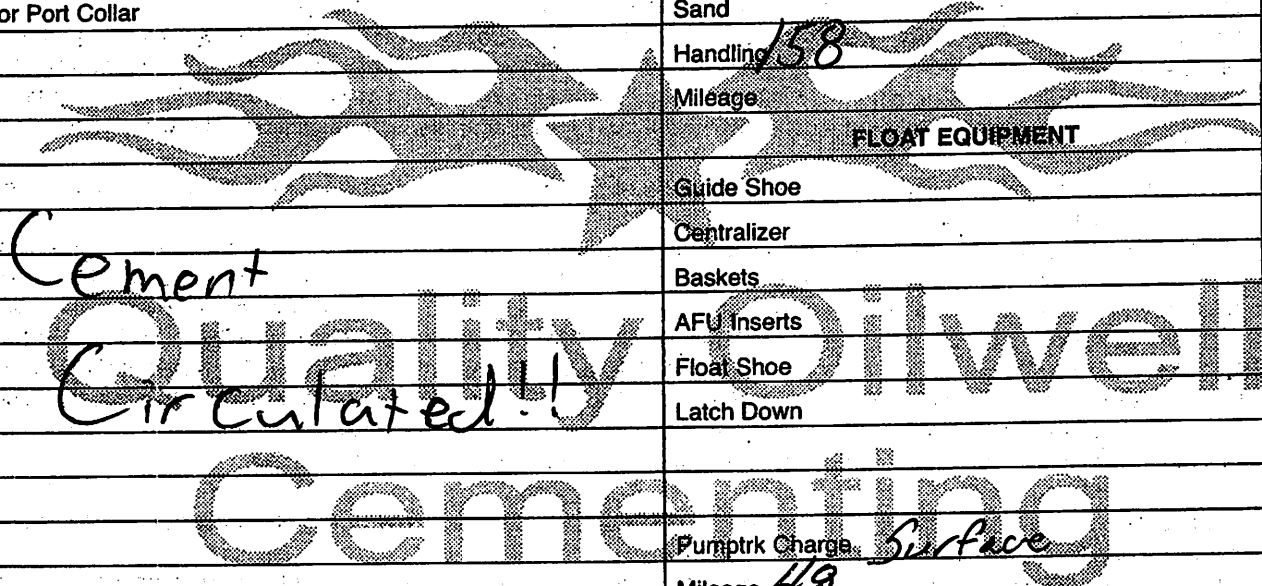
Meas Line		Displace	12 3/4		
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<b>EQUIPMENT</b>				Common	150
Pumptrk	5	No.	Cementer Helper David	Poz. Mix	
Bulktrk	15	No.	Driver Ryan	Gel.	3
Bulktrk	PU	No.	Driver Brett	Calcium	3

<b>JOB SERVICES &amp; REMARKS</b>				Hulls	
Remarks:				Salt	
Rat Hole				Flowseal	
Mouse Hole				Kol-Seal	
Centralizers				Mud CLR 48	
Baskets				CFL-117 or CD110 CAF 38	
D/V or Port Collar				Sand	
				Handling	158
				Mileage	

<b>FLOAT EQUIPMENT</b>					
				Guide Shoe	
				Centralizer	
				Baskets	
				AFU Inserts	
				Float Shoe	
				Latch Down	
				Pumptrk Charge	Surface
				Mileage	48

X Signature <i>Ag Eibel</i>	Tax	
	Discount	
	Total Charge	



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 042

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-30-14	24	11	24	Trego	KS		8:00 AM

Location Waffery 60 R/B W to 2200 3/4 S Pinto

Lease <u>Ureland PC#</u>	Well No. <u>24</u>	Owner
Contractor <u>Murphy #16</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <u>DV Job</u>	<u>Top stage</u>	Charge To <u>Phillips Exploration</u>
Hole Size <u>7 7/8</u>	T.D. <u>4130</u>	Street
Csg. <u>5 1/2</u>	Depth	City
Tbg. Size	Depth	State
Tool <u>DV Tool</u>	Depth <u>2047</u>	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <u>425 Qmxc 14#F10</u>

Meas Line	Displace <u>50.8L</u>	Common <u>425 Qmxc</u>
EQUIPMENT		Poz. Mix
Pumptrk <u>16</u> No.	Cement Helper <u>Tracy</u>	Gel.
Bulktrk No.	Driver <u>Tracy's</u>	Calcium
Bulktrk <u>4</u> No.	Driver <u>Tracy</u>	Hulls

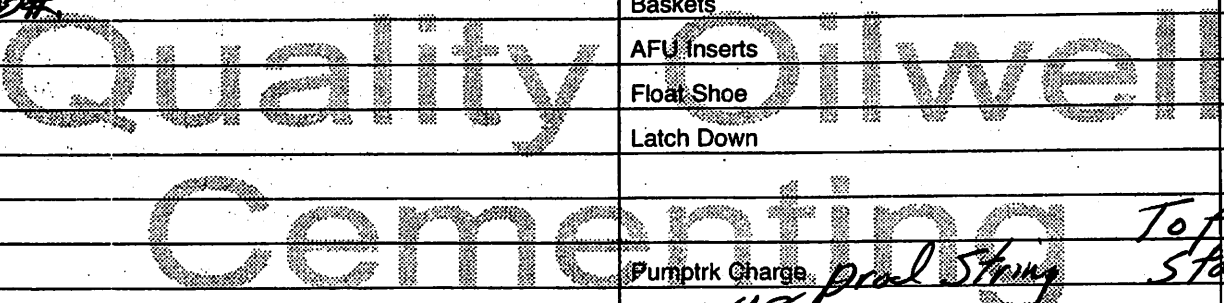
JOB SERVICES & REMARKS		Salt
Remarks:		Flowseal <u>100#</u>
Rat Hole <u>30SK</u>		Kol-Seal
Mouse Hole <u>15SK</u>		Mud CLR 48
Centralizers		CFL-117 or CD110 CAF 38
Baskets		Sand
D/V or Port Collar		Handling <u>400</u>

<u>Plug Rathole &amp; mousehole</u>		FLOAT EQUIPMENT	
<u>Pump special mud Clear</u>		Guide Shoe	
<u>Cement 5 1/2 with 380SK</u>		Centralizer	
<u>Displace Plug &amp; Cement</u>		Baskets	
<u>Circulated Plugland @</u>		AFU Inserts	
<u>150#</u>		Float Shoe	
		Latch Down	

		Pumptrk Charge <u>prod string</u>	<u>Top Stage</u>
		Mileage <u>48</u>	

		Tax	
		Discount	
		Total Charge	

X Signature [Signature]



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-30-14	24	11	24	Trego	KS		4:00 A.M.
Lease Urecland PC#				Well No. 24		Location Wakeenah 126m R/B 4w 3/4 S into	
Contractor MWH #16				Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job DV Job				Charge To Phillips Exploration			
Hole Size 7 7/8		T.D. 4130		Street			
Csg. 5 1/2 14#		Depth 4106		City			
Tbg. Size		Depth		State			
Tool DV Tool		Depth 2047		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. 33,660		Shoe Joint 3366		Cement Amount Ordered 165 Com 10/Salt 57-Gilsonite			
Meas Line		Displace 99 1/2 BBL					
<b>EQUIPMENT</b>				<b>Common</b>			
Pumptrk 10	No.	Cement Helper Craig		Poz. Mix			
Bulktrk	No.	Driver Travis		Gel.			
Bulktrk 15	No.	Driver Chad		Calcium			
<b>JOB SERVICES &amp; REMARKS</b>				<b>Hulls</b>			
Remarks:				Salt 14			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal 825 #			
Centralizers				Mud CLR 48 500 gal			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
5 1/2 set @ 4106 Est Circulation				Handling 187			
Pump seal mud clean 20 BBL KCL				Mileage			
Mix 165 SKY Displace.				<b>FLOAT EQUIPMENT 5 1/2</b>			
Displace 45 BBL Water 50 BBL mud				Guide Shoe DV Tool			
4 1/2 BBL Water To land Plug.				Centralizer 10 Turbo's			
Plug landed @ 1500ft. Release				Baskets 2			
Pressure Dry.				AFU Inserts 3			
Drop Bomb Circulate 5 HRS				Float Shoe 1			
				Latch Down 1			
				Pumptrk Charge 48 / prod string			
				Mileage 48			
				Tax			
				Discount			
				Total Charge			
X Signature [Signature]							