



CEMENTING LOG

Date 8/7/2014 District Liberal # 21 Ticket No. 61548
 Company CHESAPEAKE Rig EXACT WELL SERVICE
 Lease HANKE Well No 1-6
 County STEVENS CO. State KS.
 Location _____
 Field _____
 Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner
 Size 10 3/4 Type j-55 Weight 32.75 Collar _____

CEMENT DATA

Spacer Type 37 BBLs H2O
 Amt. _____ Sks Yield _____ ft³/sk Density 8.34 PPG _____
 LEAD: Time _____ hrs. Type 60/40/4% GEL
 Excess _____
 Amt. 360 Sks Yield 1.5 ft³/sk Density 13.5 PPG _____
 TAIL: Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____
 WATER Lead 7.5 Gal/sk Tail _____ Gal/sk Total 64.28 BBLs _____
 Pump Trucks Used: 531-541
 Bulk Equipment 869-554

Casing Depths Top _____ Bottom 1680 FT.

	BBLS/LIN. FT		LIN. FT/BBL
Drill Pipe:	_____		_____
Open Hole:	_____		_____
Capacity Factors:	_____		_____
Casing	_____	<u>0.1009</u>	_____
Open Holes	_____		_____
Drill Pipe	_____	<u>0.00387</u>	_____
Annulus	_____	<u>0.0533</u>	_____
	_____	<u>0.0417</u>	_____
Perforations	From <u>730 FT</u> ft to _____ ft		Amt _____

Float Equipment: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Bottom _____
 Stage Collars _____
 Special Equipment _____
 Disp: Fluid Type H2O Amt 5.3 bbls Weight 8.34 PPG _____
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE STEVE

CEMENTER Ruben Chavez

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	
11:00 AM						Got To Location Spot Trucks, And Rig Up.
12:50						Have A Prejob Safety Meeting
1:00	100		2	2	2	Pump 2 BBLs H2O To Fill Pump Lines
1:05						PRESSURE TEST 2000 pumping lines
1:10	100		37	35	3	Start pumping h2o to fill up casing 37 BBLs
3:00	90		50.3	13.3	3	Start mixing and pump 50 sk cement at 1680 FT 13.3 BBLs SLURRY
3:05	0		55.6	5.3	3	Start displacement 5.3 bbls h2o
3:07						Shut down
						Wash pump lines
4:10	50		138.4	82.8	3	Start pumping 310 sk cement; 82.8 bbls slurry. And continue pum ping until circulate cement to surface from 750 ft. deep.
4:55						Shut down
						Wash pump lines
						Rig down
						Job finished; thankyou

FINAL DISP. PRESS. _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ > BBLs **THANK YOU**

Field Ticket Number: 61548 Field Ticket Date: Thursday, August 07, 2014

Bill To:
CHESAPEAKE
P O Box 18496
Oklahoma City, OK 73154-0496

Job Name: 03 Plug
Well Name: HANKE
Well Number: 1-6
Shipping Point: Liberal KS, USA
Sales Office: Mid Con BD.

SERVICES - SERVICES - SERVICES

Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
Thru-Tbg or Drill Pipe Pump Charge 1001' to 20	1.00	min. 4 hr	2,249.84	2249.84	2,024.86	10%	2,024.86
Products handling service charge	380.64	per cu. Ft.	2.48	943.99	2.23	10%	849.59
Drayage for Products	402.48	ton-mile	2.75	1106.82	2.48	10%	996.14
Light Vehicle Mileage	25.00	per mile	4.40	110.00	3.96	10%	99.00
Heavy Vehicle Mileage	25.00	per mile	7.70	192.50	6.93	10%	173.25

MATERIALS - MATERIALS - MATERIALS

ALLIED 60/40 POZ 2% BLEND - CLASS A	360.00	per sack	18.43	6,634.80	16.59	10%	5,971.32
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ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Additional hours, in excess of set hours	1.00	per hour	440.00	440.00	396.00	10%	396.00
Calcium Chloride		per pound	1.10	0.00	0.99	10%	0.00

Allied Rep
Customer Agent: Ruben Chavez

	Gross	Discount	Final
Services Total	4,603.15	460.31	4,142.83
Materials Total	6634.80	663.48	5,971.32
Additional Items	440.00	44.00	396.00
Final Total	5,043.15	1,167.79	10,510.15

*This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.*

X _____ Field Ticket Total (USD): **16721.10** **\$10,510.15**

Customer Signature

LOG-TECH OF KANSAS, INC.

P.O. BOX 885
GREAT BEND, KANSAS 67530
(620) 792-2167

INVOICE
8088

Date 8-6-2014

CHARGE TO: Chesapeake Operating Company
 ADDRESS _____
 R/A SOURCE NO. _____ CUSTOMER ORDER NO. 807207
 LEASE AND WELL NO. Hank #1 FIELD _____
 NEAREST TOWN Hugoton COUNTY Stevens STATE KS
 SPOT LOCATION _____ SEC. 6 TWP. 35S RANGE 36W
 ZERO 12' A6L CASING SIZE 5 1/2 / 4 1/2 WEIGHT _____
 CUSTOMER'S T.D. _____ LOG TECH #57 FLUID LEVEL 2760'
 ENGINEER Lance Gregg OPERATOR J. Welch, M. Montoy

PERFORATING

Description	No. Shots	Depth		Amount
		From	To	
<u>Set 5 1/2 casing PVC</u>	1		2100	850 ⁰⁰

DEPTH AND OPERATIONS CHARGES

Description		Depth		Total No. Ft.	Price Per Ft.	Amount
		From	To			
<u>Set 4 1/2 CRP DI-S</u>	A1	0	4274	4274	.22	931 ⁴⁸
<u>Dump 2 y of cement</u>	A1		4274	4274		180 ⁰⁰
<u>Run GRPCEL 1 riser</u>	A1	0	2400	2400	.31	744 ⁰⁰
<u> " " " "</u>	Log	2400	1900	M.A.	.29	550 ⁰⁰

MISCELLANEOUS

Description	Quantity	Amount
<u>Service Charge</u>	1	550 ⁰⁰
<u>4 1/2 CRP DI-S Weatherford</u>	1	700 ⁰⁰

PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT

RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE HEREBY AGREE.

[Signature] _____ Date 01/07/35

Sub Total	4535 ⁴⁸
Code Ref. Tool Insurance	
Tax	
	3855 ⁰⁰

LOG-TECH OF KANSAS, INC.

8089

P.O. BOX 885

GREAT BEND, KANSAS 67530

(620) 792-2167

Date 8-7-2014

CHARGE TO: Chesapeake Operating Company
 ADDRESS _____
 R/A SOURCE NO. _____ CUSTOMER ORDER NO. AFB 803203
 LEASE AND WELL NO. Hank #1 FIELD _____
 NEAREST TOWN Hugoton COUNTY Stevens STATE KS
 SPOT LOCATION _____ SEC. 6 TWP. 35S RANGE 36W
 ZERO 12' A6L CASING SIZE 7 5/8 WEIGHT _____
 CUSTOMER'S T.D. _____ LOG TECH #57 FLUID LEVEL Full
 ENGINEER Lance Gregg OPERATOR J. Welch

PERFORATING

Description	No. Shots	Depth		Amount	
		From	To		
<u>OPEN HSC (3125-337)</u>	<u>11</u>		<u>750</u>	<u>550</u>	<u>00</u>

DEPTH AND OPERATIONS CHARGES

Description	From	Depth		Total No. Ft.	Price Per Ft.	Amount	
		To					
<u>Run GR/CEL 100L Depth</u>	<u>0</u>	<u>1500</u>	<u>17.0</u>	<u>17.0</u>	<u>.31</u>	<u>930</u>	<u>00</u>
<u>" " " Log</u>	<u>1500</u>	<u>0</u>	<u>17.0</u>	<u>17.0</u>	<u>.29</u>	<u>550</u>	<u>00</u>

MISCELLANEOUS

Description	Quantity	Amount
<u>Service Charge</u>	<u>1</u>	<u>550 00</u>

PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT

RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE HEREBY AGREE.

Sub Total	<u>2910 00</u>
Code Ref. Tool Insurance	
Tax	
	<u>2474 00</u>

[Signature] Date 01/07/35