INVOICE

8150

# LOG-TECH OF KANSAS, INC.

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

Date 9-4-14

CHARGE TO: CHESAPEAKE OPERATING INC
ADDRESS
R/A SOURCE NO. CUSTOMER ORDER NO.
LEASE AND WELL NO. CONRADY B-2-1 FIELD
NEAREST TOWN ZENDA COUNTY HARPER STATE KS
SPOT LOCATION NW-NE-NE SEC. 1 TWP. 31S RANGE 9W
ZERO GL 5 CASING SIZE 5½ WEIGHT
CUSTOMER'S T.D. LOG TECH FLUID LEVEL 4120
ENGINEER C. HEBER OPERATOR M. MCGUIRE

## PERFORATING

| Description | No. Shots | Depth From | Depth To | Amount | |
|---|---|---|---|---|---|
| | | | | | |

## DEPTH AND OPERATIONS CHARGES

| Description | Depth From | Depth To | Total No. Ft. | Price Per Ft. | Amount | |
|---|---|---|---|---|---|---|
| SET 5½" CIBP @ 4350 | 0 | 4350 | 4350 | .22 | 957 | 00 |
| DUMP 2 SX CEMENT | 0 | 4350 | 4350 | ~~.44~~ | 150 | 00 |

## MISCELLANEOUS

| Description | Quantity | Amount | |
|---|---|---|---|
| Service Charge | | 500 | 00 |
| STANDBY 2 HR | | 200 | 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.

| | | |
|---|---|---|
| Sub Total | 2157 | 00 |
| Code Ref. Tool Insurance | | |
| Tax | | |
| | | |
| | 2029 | 00 |

Customer Signature Date

WHITE - Original CANARY - File Copy PINK - Customer Copy GOLDENROD - Field Copy

**ALLIED OIL & GAS SERVICES, LLC**

# CEMENTING LOG

STAGE NO.

Date 9-8-2014 District MC Ticket No. 64377

Company Chesapeake Oper, Co. Rig Williams W/S

Lease Well No.

County Harper State KS.

Location Zenda South to Co. line 1½ E, 5/S Field

CASING DATA: Conductor ☐ PTA ☒ Squeeze ☐ Misc ☐ Surface ☐ Intermediate ☐ Production ☐ Liner ☐

Size Type Weight Collar

Casing Depths: Top Bottom

Drill Pipe: Size Weight Collars

Open Hole: Size T.D. ft. P.B. to ft.

CAPACITY FACTORS:

| | | | |
|---|---|---|---|
| Casing: | Bbls/Lin. ft. .0637 | Lin. ft./Bbl. 15.70 | |
| Open Holes: | Bbls/Lin. ft. | Lin. ft./Bbl. | |
| Drill Pipe: | Bbls/Lin. ft. | Lin. ft./Bbl. | |
| Annulus: | Bbls/Lin. ft. .00387 | Lin. ft./Bbl. 258.6 | |
| | Bbls/Lin. ft. | Lin. ft./Bbl. | |

Perforations: From ft. to ft. Amt.

CEMENT DATA:

Spacer Type: 100# Hulls

Amt. Sks Yield ft³/sk Density PPG

LEAD: Pump Time hrs. Type Class A 3% cc + 100# Hulls Excess

Amt. Sks Yield ft³/sk Density A neat PPG

TAIL: Pump Time hrs. Type Excess

Amt. 215 Sks Yield 1.17 ft³/sk Density 15.6 PPG

WATER: Lead 5.2 gals/sk Tail 5.2 gals/sk Total Bbls.

Pump Trucks Used 882-302 Jason Thimesch

Bulk Equip. 421- Ryan Reeves

Float Equip: Manufacturer

Shoe: Type Depth

Float: Type Depth

Centralizers: Quantity Plugs Top Btm.

Stage Collars

Special Equip.

Disp. Fluid Type Amt. Bbls. Weight PPG

Mud Type Weight PPG

COMPANY REPRESENTATIVE Bobby CEMENTER Carl Balding

| TIME AM/PM | PRESSURES PSI DRILL PIPE CASING | ANNULUS | FLUID PUMPED DATA TOTAL FLUID | Pumped Per Time Period | RATE Bbls Min. | REMARKS |
|---|---|---|---|---|---|---|
| | | | | | | on location + Rig up |
| | | | | | | Have Safety Meeting |
| | | | | | | Rig up to Tubing |
| | | | | | | Pressure test to 1500 psi |
| 10:05 AM | 200 | | 6 | 6 | 3 | Start freshwater |
| | 200 | | 13.29 | 7.29 | 4 | Mix 35 sx cement w/ Hulls |
| | | | 17.29 | 3.5 | 3 | Displace w/ 3½ Bbls water |
| | | | | | | 2nd plug 949' - 829 |
| 11:55 AM | 200 | | 21.29 | 4 | 3 | load Hole w/ fresh |
| | 200 | | | | | mix 35 sx cement |
| | | | 22.79 | 1.5 | | Displace w/ freshwater |
| | | | | | | 3rd plug |
| | | | | | | circulating cement from |
| 12:45 PM | 50 | | 60.29 | 37.50 | 3 | 459' to surface w/ 180 sx A |

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

MILLER PRINTERS, INC. - Great Bend, KS

# ALLIED OIL & GAS SERVICES, LLC 064377

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

| DATE | SEC. | TWP. | RANGE | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
|---|---|---|---|---|---|---|---|
| | | | | | | 10:05 | |
| LEASE | WELL # | | LOCATION | | | COUNTY | STATE |
| OLD OR NEW (Circle one) | | | | | | | |

CONTRACTOR

OWNER

TYPE OF JOB

HOLE SIZE T.D.

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

**EQUIPMENT**

PUMP TRUCK CEMENTER

# HELPER

BULK TRUCK

# DRIVER

BULK TRUCK

# DRIVER

**REMARKS:**

CHARGE TO:

STREET

CITY STATE ZIP

**CEMENT**

AMOUNT ORDERED

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

@

@

@

@

@

@

@

HANDLING @

MILEAGE

TOTAL

**SERVICE**

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

@

@

TOTAL

**PLUG & FLOAT EQUIPMENT**

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

SIGNATURE