

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times .14 \times h$

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004

BPH - barrels per hour

PSI - pounds square inch

TO FIGURE PUMP DRIVES

* D - Diameter of Pump Sheave

* d - Diameter of Engine Sheave

SPM - Strokes per minute

RPM - Engine Speed

R - Gear Box Ratio

*C - Shaft Center Distance

D - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times D$

R - $RPM \times D$ over $SPM \times d$

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{WATTS}{VOLTS} = AMPS$

746 WATTS equal 1 HP

Log Book

Well No. A-3

Farm Holtz

KS Miami
(State) (County)

16 18 24
(Section) (Township) (Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
0-2	soil - clay	2	
3	Lime	5	
13	Shale	18	
34	Lime	52	
6	Shale	58	
22	Lime	80	
4	Shale	84	
2	Lime	86	
4	Shale	90	
7	Lime	97	Hertha
20	Shale	117	
14	sand	131	broken oil
49	sandy shale	180	
81	shale	261	
9	sand	270	no oil
36	shale	306	
5	Lime	311	
19	Shale	330	
6	Lime	336	
17	shale	353	
4	Lime	357	
14	shale	371	
24	Lime	395	
73	Shale	468	
5	sandy shale	473	
1	sand	474	broken oil
14	core	488	page 6



REMIT TO
 Consolidated Oil Well Services, LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884
 Chanute,KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice Invoice# 806823

Invoice Date: 01/13/16 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 4595 K-33 HWY, PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

holtz #a-3

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	46.000	810.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	46.000	115.83
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	46.000	356.40
WE0853	80 BBL Vacuum Truck (Cement Services)	1.000	100.0000	46.000	54.00
CC5840	Poz-Blend I A (50:50)	73.000	13.5000	46.000	532.17
CC5965	Bentonite	223.000	0.3000	46.000	36.13
CC5326	Sodium Chloride, Salt	141.000	0.7500	46.000	57.11
CC6077	Kolseal	365.000	0.5000	46.000	98.55
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 3,860.15
 Discounted Amount 1,775.67
 SubTotal After Discount 2,084.48

Amount Due 3,971.00 If paid after 02/12/16

Tax: 59.86
 Total: 2,144.35



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

Invoice # **806823**

**FIELD TICKET & TREATMENT REPORT
CEMENT**

5131
5031

TICKET NUMBER **49959**

LOCATION **Ottawa KS**

FOREMAN **Fred Mader**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-11-16	3244	Noltz # A-3	Sw 16	18	24	M1
CUSTOMER			TRUCK #			
Mailing Address			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE						

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 540 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 525 DRILL PIPE 13 3/4 in TUBING @ 501 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING 24' x Plug
 DISPLACEMENT 2.9 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold Safety meeting. Establish pump rate. Mix Pump 100# Gal
Flush. Mix & Pump 73 SKS Por Blend I.A Cement 70 Gal 5%
Salt 5# Hol Seal/SK. Cement to Surface. Flush pump & lines
clean. Displace 2 1/2" Rubber plug to Baffle in casing. Pressure
to 800# PSI. Release pressure to set float Valve. Shut in
casing.

TRS Drilling - Wes Ballard

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	30 mi	MILEAGE	2145.00	
CE07H	Minimum	Ten Miles Delivery	660.00	
WED853	1 hr	80 BBL Vac Truck	100.00	
		Sub Total.	2474.50	
		Less 46%	-1138.23	1336.23
CC5840	73 SKS	Por Blend I.A Cement	985.50	
CC5965	223#	Bentonite Gel	66.20	
CC5326	141#	Salt	105.25	
CC6077	365#	Hol Seal	182.50	
CP8176	1	2 1/2" Rubber Plug	40.00	
		Sub Total	1385.65	
		Less 46%	-637.40	748.25
		6%		59.54
		SALES TAX		59.54
		ESTIMATED TOTAL		2144.35

Ravin 3737

AUTHORIZATION _____ TITLE _____ DATE (3976.00)

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