

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 $BPH \times PSI \times .0004$

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. AI-1

Farm Knoche

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
0-17	soil - clay	17	
3	Lime	20	
2	Shale	22	
5	Lime	27	
12	Shale	39	
33	Lime	72	
6	Shale	78	
21	Lime	99	
4	Shale	103	
3	Lime	106	
3	Shale	109	
6	Lime	115	Heath
23	Shale	138	
10	sand	148	broken - heavy oil
18	sandy shale	166	
110	Shale	276	
13	sand	289	water
38	Shale	327	
5	Lime	332	
19	Shale	351	
7	Lime	358	
16	Shale	374	
4	Lime	378	
10	Shale	388	
26	Lime	414	
6	Shale	420	
2	Lime	422	



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#

806909

Invoice Date: 01/29/16

Terms: Net 30

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ALTAVISTA ENERGY INC

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

knoche #A11

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)	1.500	100.0000	46.000	81.00
CC5840	Poz-Blend I A (50:50)	74.000	13.5000	46.000	539.46
CC5965	Bentonite	224.000	0.3000	46.000	36.29
CC5326	Sodium Chloride, Salt	143.000	0.7500	46.000	57.92
CC6077	Kolseal	370.000	0.5000	46.000	99.90
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30
CC6128	Mud Flush - C	0.500	50.0000	46.000	13.50

Subtotal 3,952.95

Discounted Amount 1,818.36

SubTotal After Discount 2,134.59

Amount Due 4,067.23 If paid after 02/28/16

Tax: 61.71

Total: 2,196.31



CONSOLIDATED
Oil Well Services, LLC

5220
924

TICKET NUMBER 49974
LOCATION Ottawa KS
FOREMAN Fred Maden

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

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 806909

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-27-16	3244	Kuacha # A11	SW 16	18	24	41
CUSTOMER			TRUCK #			
Altavista Energy Inc			712	Driver	TRUCK #	DRIVER
MAILING ADDRESS			495	Har Bee		
P. O. Box 128			675	Kel Det		
CITY	STATE	ZIP CODE	510	Art Mad		
Wellsville	KS	66092				

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 530 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 571 DRILL PIPE Baffle tubing @ 539 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32 + Plug
 DISPLACEMENT 3.13 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 40 RPM

REMARKS: Hold safety meeting. Establish pump rate. Pump 1/2 Gal Mud
Flush - C. Circulate to condition hole. Mix + Pump 100# Gel Flush
Mix + Pump 74 sks Por Blend I A Cement 2 7/8 Gel 5% Salt 5"
Kal Seal /sk. Cement to surface. Flush pump + lines clean. Displace
2k" Rubber plug to Baffle in casing. Pressure to 500# PSI.
Release pressure to set float valve. Shut in casing.

TOS Drilling - Was Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1495	1500 ⁰⁰
CE0002	30 mi	MILEAGE	495	214 ⁵⁰
CE0711	Minimum	Ten Miles Delivery	510	660 ⁰⁰
WE0853	1 1/2 hr	80 BBL Vac Truck	675	150 ⁰⁰
		Sub Total		2524 ⁵⁰
		less 4610		-1161 ²⁷
				1363 ²³
<u>7615</u> CE5840	74 sks	Por Blend I A Cement		999 ⁰⁰
CE5965	224#	Bentonite Gel		67 ²⁰
CE5326	143#	Salt		107 ³⁵
CE6077	370#	Kal Seal		185 ⁰⁰
CE6176	1	2k" Rubber plug		45 ⁰⁰
CE6128	1/2 Gal	Mud Flush		25 ⁰⁰
		Sub Total		1428 ⁴⁵
		less 4610		-657 ⁰⁹
				771 ³⁶
			670	SALES TAX
				ESTIMATED
				TOTAL
				61 ⁷¹
				2196 ³¹

AVIN 3737
 AUTHORIZATION Byron Mills TITLE _____ DATE 4/26/23

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.