

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. A-32

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
0-9	soil-clay	9	
6	Lime	15	
13	shale	28	
33	Lime	61	
6	shale	67	
21	Lime	88	
4	Shale	92	
2	Lime	94	
4	Shale	98	
5	Lime	103	Hertha
23	Shale	126	
12	sand	138	broken - good oil show
125	shale	263	
6	sandy lime	269	white
42	shale	311	296- redbed
5	Lime	316	
7	shale	323	
6	Lime	329	
6	shale	335	
10	Lime	345	
16	shale	361	
3	Lime	364	
10	shale	374	
23	Lime	397	
8	shale	405	
3	Lime	408	
64	shale	472	

472

Thickness of Strata	Formation	Total Depth	Remarks
	CORE		
2	sandy shale	474	
4	sand & sandy shale	478	broken - not much oil
13	Shale	491	TD - dry hole - plugged



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# 809694

Invoice Date: 02/28/17 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

knoche #a-32

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	45.000	825.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	45.000	117.98
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	45.000	363.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.000	100.0000	45.000	110.00
CC5840	Poz-Blend I A (50:50)	50.000	13.5000	45.000	371.25
CC5965	Bentonite	252.000	0.3000	45.000	41.58
Subtotal					3,325.10
Discounted Amount					1,496.30
SubTotal After Discount					1,828.80

Amount Due 3,385.15 If paid after 03/30/17

Tax: 33.02
 Total: 1,861.83



CONSOLIDATED
Oil Well Services, LLC

7643
7542

TICKET NUMBER 50418
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 # 809694

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-27-17	3244	Knocke # A-32	NW 16	E 8	R 24	MI
CUSTOMER Altavista Energy			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 128			712	Fred Maden		
CITY Wellsville			495	Harbec		
STATE KS			675	Ki Det		
ZIP CODE 66082			548	Ki Car		

JOB TYPE Plug HOLE SIZE 5 7/8 HOLE DEPTH 480 CASING SIZE & WEIGHT N/A
 CASING DEPTH N/A DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING Full
 DISPLACEMENT N/A DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 @ P/M

REMARKS: Hold Safety meeting. Rig ran drill pipe to TO. (480') Spat 10 SKS
Cement @ TO. Pull drill pipe to 250'. Fill to surface w/
cement. Pull remaining drill pipe. Top off well w/ Cement.
Wash out drill pipe.

ToS Drilling - Wesley Dallard.

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500.00
CE0002	30 mi	MILEAGE	495	21450.00
CE0711	Minimum	Ten Miles Delivery	548	660.00
WE0853	2 hrs	80 OBL Vac Truck	675	200.00
		Sub Total		25740.00
		Less 45%		14157.00
CC5840	50 SKS	Poz Blend IA Cement	675.00	33750.00
CC5965	252 #	Bentonite Gel	75.60	19152.00
		Sub Total		750.00
		Less 45%		412.50
		6%	SALES TAX	32.02
			ESTIMATED TOTAL	1861.03

AUTHORIZATION Bryan Kelly TITLE _____ DATE 2-27-17

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.