



# 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-2

Farm Knoche

KS Miami  
 (State) (County)

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

For Alta Vista Energy inc  
 (Well Owner)

## Town Oilfield Services, Inc.

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

Knoche Farm: Miami County

KS State; Well No. A-2

Elevation 942

Commenced Spuding 1-22 .20 1/6

Finished Drilling 1-25 .20 1/6

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

16 18 24

(Section) (Township) (Range)
Distance from S line, 1500 ft.
Distance from E line, 3670 ft.

3 sacks
8 hrs
5 7/8 borehole
2 1/8 casing

CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_
8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_
7 3/4" Set 23 6 1/4" Pulled \_\_\_\_\_
4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_
2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

CASING AND TUBING MEASUREMENTS

Table with 6 columns: Feet, In., Feet, In., Feet, In. Handwritten entries include 501.80, 533.50, 557.20, 580 TD, and 27 1/8.

Thickness of Strata	Formation	Total Depth	Remarks
0-16	soil-clay	16	
18	shale	34	
9	lime	43	
12	shale	55	
34	lime	89	
5	shale	94	
21	lime	115	
5	shale	120	
2	lime	122	
4	shale	126	
6	lime	132	Hurtha
23	shale	155	
14	sand	169	odor
31	sandy shale	200	
94	shale	294	
10	sand	304	water
38	shale	342	
6	lime	348	
10	shale	358	
2	lime	360	
10	shale	370	
8	lime	378	
14	shale	392	
3	lime	395	
13	shale	408	
25	lime	433	
20	shale	453	





**CONSOLIDATED**  
Oil Well Services, LLC

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#

806899

Invoice Date: 01/26/16

Terms: Net 30

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

knoche # a-2

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)	72.000	13.5000	46.000	524.88
CC5965	Bentonite	221.000	0.3000	46.000	35.80
CC5326	Sodium Chloride, Salt	139.000	0.7500	46.000	56.30
CC6077	Kolseal	360.000	0.5000	46.000	97.20
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 3,842.05

Discounted Amount 1,767.34

SubTotal After Discount 2,074.71

Amount Due 3,951.45 If paid after 02/25/16

Tax: 59.08

Total: 2,133.79



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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

5205  
Invoice # 806899711

TICKET NUMBER 49968

LOCATION Ottawa KS

FOREMAN Fred Maden

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-25-16	3244	Knoche # A-2	Sw 16	1E	24	MI
CUSTOMER			TRUCK #			
Alta Vista Energy Inc			712	Frc Mad		
MAILING ADDRESS			495	Hav Bee		
P.O. Box 128			675	Kei Dey		
CITY	STATE	ZIP CODE	510	Arld Mad		
Wellsville	KS	66092				

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 580' CASING SIZE & WEIGHT 2 7/8 EVE  
 CASING DEPTH 557' DRILL PIPE Baffle m TUBING @ 533 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 24' + Plug  
 DISPLACEMENT 3.1 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 40PM

REMARKS: Hold Safety meeting. Establish pump rate. Mix + Pump 100% Gel  
Flush. Mix + Pump 72SKS Por Blend I A Cement 270 Gal 5% Salt  
5" Kol 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.

TOS Drilling - Wes.

*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
CE074	M. S. in	Tax Miles Delivery	510	660.00
W150853	1 hr	80 BBL Vac Truck	675	100.00
		Sub Total		24745.00
		Less 46%		-11382.7
				13262.3
CC5540	72SKS	Por Blend I A Cement		972.00
CC5925	22#	Bentonite Gel		66.30
CC5826	139#	Salt		1042.5
CC6077	360#	Kol Seal		150.00
CP8176	1	2 1/2" Rubber Plug		45.00
		Sub Total		1367.55
		Less 46%		-629.07
				738.48
			SALES TAX	59.00
			ESTIMATED TOTAL	2123.29

Ravin 3737

AUTHORIZATION No Co Rep on site

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

(3951.45)

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.