

Commenced Spudding:
9/19/17

[illegible]

[illegible]

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-23

Farm Knoche

KS Miami
(State) (County)

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

For Altavista Energy
(Well Owner)

15-121-31386

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

(Section) (Township) (Range)

Distance from S line, 2720 ft.

Distance from E line, 4220 ft.

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

10" Set	_____	10" Pulled	_____
8" Set	_____	8" Pulled	_____
7" Set	20	6 1/4" Pulled	_____
4" Set	_____	4" Pulled	_____
2" Set	_____	2" Pulled	_____

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-12	Soil-clay	12	
2	Shale	14	
32	Lime	46	
9	Shale	55	
19	Lime	74	
4	Shale	78	
3	Lime	81	
5	Shale	86	
5	Lime	91	Heather
23	Shale	114	
6	Sand	120	odor
4	Sand	124	broken - good oil show
10	sandy shale	134	
116	Shale	250	
7	sandy Lime	257	white - no oil
42	Shale	299	
6	Lime	305	
7	Shale	312	
3	Lime	315	
9	Shale	324	
8	Lime	332	
16	Shale	348	
4	Lime	352	
11	Shale	363	
22	Lime	385	
8	Shale	393	
2	Lime	395	

[illegible]



REMIT TO
QES Pressure Pumping 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# 811300

Invoice Date: 09/21/17 Terms: Net 30 Page 1

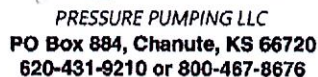
ALTAVISTA ENERGY INC
PO BOX 128
WELLSVILLE KS 66092
USA
7858834057
KNOCHE A-23

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	55.000	675.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	55.000	96.53
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	55.000	297.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.000	100.0000	55.000	90.00
CC5840	Poz-Blend I A (50:50)	65.000	13.5000	55.000	394.88
CC5965	Bentonite	209.000	0.3000	55.000	28.22
CC5326	Sodium Chloride, Salt	137.000	1.0000	55.000	61.65
CC6077	Kolseal	325.000	0.5000	55.000	73.13
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	55.000	20.25

Subtotal 3,859.20
Discounted Amount 2,122.56
SubTotal After Discount 1,736.64

Amount Due 3,961.98 If paid after 10/21/17

Tax: 46.25
Total: 1,782.91



9018 / 8920

TICKET NUMBER 53876

LOCATION ~~of~~ Hawa KS

FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT CEMENT

Invoice #811300

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-20-07	3244	Knocke A-23	NW 16	18	24	M1
CUSTOMER						
Alta Vista Energy Inc						
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
P.O. Box 128			712	Fre Mad		
			364	Ala Mad		
CITY			675	Ki Det		
STATE			503	Ki Rar		
ZIP CODE						
Wellsville KS 66092						

JOB TYPE <u>Long string</u>	HOLE SIZE <u>5 7/8</u>	HOLE DEPTH <u>540</u>	CASING SIZE & WEIGHT <u>2 3/8 EUE</u>
CASING DEPTH <u>519</u>	DRILL PIPE <u>Baffle in</u>	TUBING <u>@ 450</u>	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>31' + Plug</u>
DISPLACEMENT <u>2.84 BBL</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>4 BPM</u>

REMARKS: Hold Safety meeting. Establish pump rate. Mix & Pump 100# Gel Flush mix & Pump 65 sks Pac Blend IA Cement 2% Gel 5% Salt 5# Koi Seal/sk. Cement to surface. Flush pump & lines clean. Displace 2 1/2" Rubber plug to Baffling Casing. Pressure to 600th PSI. Release pressure to Set Float Valve. Shut in Casing.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	368	1500 ⁰⁰
CE0002	30 mi	MILEAGE	368	2148 ⁰⁰
CE0711	Minimum	Ten Miles Delivery	523	660 ⁰⁰
WE0853	2 hrs	80 BBL Vac T Fuel	675	200 ⁰⁰
		Sub Total		2574 ⁵⁰
		Less 55%		1158 ⁵³
CC5840	65 SKS	Pow Blend IA Cement	872 ⁵⁰	
CC5965	209#	Bentonite Gel	62 ⁷⁰	
CC5326	137#	Salt	137 ⁰⁰	
CC6077	325#	Kal Seal	162 ⁵⁰	
CP8176	1	2 1/2" Rubber Plug	45 ⁰⁰	
		Sub Total		1284 ⁷⁰
				578 ¹²
			SALES TAX	46 ³⁵
			ESTIMATED TOTAL	1782 ²⁶

Ravin 3737

Rayin 3737

AUTHORIZATION _____ TITLE _____ DATE 396198

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.