

Commenced Spudding:
10/3/17

[illegible]

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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 - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMxD over RxD

R - RPMxD over SPMxD

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. A-26

Farm Knoche

KS Miami
(State) (County)

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

For Altavista Energy
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

2" Set _____ 2" Pulled _____

Thickness of Strata	Formation	Total Depth	Remarks
0-6	soil - clay	6	
2	Lime	8	
14	Shale	22	
30	Lime	52	
9	Shale	61	
20	Lime	81	
4	Shale	85	
3	Lime	88	
4	Shale	92	
6	Lime	98	Hertha
23	Shale	121	
11	sand	132	broken - good O.I. show
124	Shale	256	
10	sandy Lime	266	white - no O.I.
39	Shale	305	
5	Lime	310	
11	Shale	321	
2	Lime	323	
7	Shale	330	
8	Lime	338	
16	Shale	354	
4	Lime	358	
12	Shale	370	
24	Lime	394	
7	Shale	401	
3	Lime	404	
9	Shale	413	

[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# 811559

Invoice Date: 10/25/17 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
PO BOX 128
WELLSVILLE KS 66092
USA
7858834057
KNOCHE A-26

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)	70.000	13.5000	55.000	425.25
CC5965	Bentonite	218.000	0.3000	55.000	29.43
CC5326	Sodium Chloride, Salt	147.000	1.0000	55.000	66.15
CC6077	Kolseal	350.000	0.5000	55.000	78.75
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	55.000	20.25
Subtotal					3,951.90
Discounted Amount					2,173.55
SubTotal After Discount					1,778.35
Amount Due 4,062.09 If paid after 11/24/17					

Tax: 49.59
Total: 1,827.95



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

FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 53881

LOCATION Ottawa KS

FOREMAN Fred Maden

INVOICE # 811559

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-20-17	3244	Knoche A-26	NW 16	18	24	mi
CUSTOMER <u>Alta Vista Energy Inc</u>						
MAILING ADDRESS <u>P.O. Box 128</u>						
CITY <u>Wellsville</u>	STATE <u>KS</u>	ZIP CODE <u>66092</u>				
			TRUCK #	DRIVER	TRUCK #	DRIVER
			712	Fve Mad		
			495	Har Bee		
			369	Mik Haa		
			804	Wei Dax		

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 560 CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 526 DRILL PIPE Baffle in TUBING @ 497 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 2.9 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.6 PM

REMARKS: Hold Safety Meeting. Establish pump rate. Mix & Pump 100# Gel Flush. Mix & Pump 70 SKS Poz Blend IA Cement. 2% Gel 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# PSL. Release pressure to set float valve. Shut in Casing.

TOS Drilling - (Cresley Dillard)

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0400	1	PUMP CHARGE	495	1500.00
CE0002	30 mi.	MILEAGE	495	214.50
CE0711	Minimum	Ten Miles Delivery	804	660.00
WE0853	2 hrs	80 BBL Vac Truck	369	200.00
		Sub Total		2574.50
		less 55%		1158.53
14371 CC5640	70 SKS	Poz Blend IA Cement	945	6615.00
CC5965	218#	Bentonite Gel	650	14190.00
CC5326	147#	Salt	147	21591.00
CC6077	350#	Kol Seal	175	61275.00
CP8176	1	2 1/2" Rubber Plug	450	450.00
		Sub Total		137740
		less 55%		61983
		8%		
		SALES TAX		4959
		ESTIMATED TOTAL		182795

Ravin 3737

AUTHORIZATION _____

TITLE _____

DATE _____

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.