



Miami County, KS  
Well: Holtz A-2  
Lease Owner: AltaVista

Town Oilfield Service, Inc.  
(913) 837-8400

Commenced Spudding:  
12/22/2015

Core		
		471
12	Sand	483

# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times 1.4 \times h$   
 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-2

Farm Holtz

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

Holtz Farm: Miami County

KS State; Well No. A-2

Elevation 917

Commenced Spuding 12-22-2015

Finished Drilling 12-23-2015

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name Lane Town

Tool Dresser's Name

Contractor's Name TOS

16 18 24

(Section) (Township) (Range)  
Distance from S line, 165 ft.

Distance from E line, 4515 ft.

3 sacks  
1 core  
9 hrs  
5 5/8 borehole

CASING AND TUBING RECORD

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

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
464-		seat nipple			
488.60		Baffle			
518.70		Float			2 7/8
540 TD					

Thickness of Strata	Formation	Total Depth	Remarks
0-3	soil-clay	3	
6	Lime	9	
13	Shale	22	
34	Lime	56	
6	shale	62	
21	Lime	83	
4	Shale	87	
2	Lime	89	
4	Shale	93	
6	Lime	99	
22	Shale	121	Heather
14	sand	135	
45	sandy shale	180	broken - heavy oil
77	shale	257	
16	sand	273	no oil
33	shale	306	
6	Lime	312	
10	Shale	322	
5	Lime	327	
7	Shale	334	
8	Lime	342	
15	shale	357	
4	Lime	361	
6	Shale	367	
6	sandy shale	373	
23	Lime	396	
71	shale	467	







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# 806715

Invoice Date: 12/29/15 Terms: Net 30 Page 1

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

holtz #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	1.000	0.0000	0.000	0.00
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)	66.000	13.5000	46.000	481.14
CC5965	Bentonite	211.000	0.3000	46.000	34.18
CC5326	Sodium Chloride, Salt	128.000	0.7500	46.000	51.84
CC6077	Kolseal	330.000	0.5000	46.000	89.10
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 3,520.30  
 Discounted Amount 1,619.34  
 SubTotal After Discount 1,900.96

Amount Due 3,621.12 If paid after 01/28/16

Tax: 54.45  
 Total: 1,955.41





**CONSOLIDATED**  
Oil Well Services, LLC

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

INVOICE # 806715 <sup>5066</sup>/<sub>4473</sub>  
FIELD TICKET & TREATMENT REPORT  
CEMENT

TICKET NUMBER 49955  
LOCATION Ottawa KS  
FOREMAN Fred Maden

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-23-15	3244	Holtz # A-2	SW 16	18	24	Mi
CUSTOMER			TRUCK #			
Alta Vista Energy			712 / Fro Mad			
MAILING ADDRESS			495 / Hor Bee			
P.O. Box 128			675 / Kai Det			
CITY			510 / Ari Mod			
Wellsville		STATE	ZIP CODE			
KS		66092				

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 540 CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 519 DRILL PIPE Baffle in TUBING @ 488' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 31' + Plug  
 DISPLACEMENT 2.84 GAL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 48 BPM

REMARKS: Hold Safety meeting. Establish circulation. Mix Pump 100# Gal Flush. Mix Pump 66 sks Por Blend I A Cement 2 7/8 Gal 5% Salt 5# Kai Seal/sk. Cement to surface Flush pump & lines clean. Displace 2 1/2" Rubber plug to baffle in casing. Pressure to 600 # PSI. Release pressure to set float valve. Shut in casing.

T.O.S Drilling. (was)

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	485	1,500.00
CE0007		MILEAGE		N/C
CE0711	Minimum	Ten Miles Delivery	570	660.00
WE0853	1 hr	90 BBL Vac Truck	675	100.00
		Sub Total		2260.00
		Less 46%		-1039.40
				1220.40
CC5840	66 SKS	Por Blend I A Cement	891.00	
CC5965	211 #	Bentonite Gel	63.30	
CC5326	128 #	Salt	96.00	
CC6077	330 #	Kai Seal	165.00	
CP8176	1	2 1/2" Rubber Plug	45.00	
		Sub Total		1260.30
		Less 46%		-579.74
				680.56
			8%	SALES TAX
				54.44
				ESTIMATED TOTAL
				19.55
				(3621.12)

Ravin 3737

AUTHORIZATION No Co Rep on Site 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.