

Miami County, KS
Well: Holtz A-5
Lease Owner: AltaVista

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

Commenced Spudding:
1/5/2016

Core		
		484
1.5	Sand	485.5
3	Sandy Shale	488.5
1	Broken Sand	489.5
1	Sandy Shale	490.5
2.5	Sand	493
4	Sand	497
4	Sandy Shale	501

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-5

Farm Holtz

KS
(State)

Miami
(County)

16
(Section)

18
(Township)

24
(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-5

Elevation 929

Commenced Spuding 1-5 20 16

Finished Drilling 1-6 20 16

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Kysa Ward

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

16 18 24

(Section) (Township) (Range)
 Distance from S line, 825 ft.

Distance from E line, 4450 ft.

3 sacks 5 7/8 borehole

1 core 2 7/8 casing

9 Hrs

1 Hr Dozer time

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.
479.	25			seat nipple	
511-				Baffle	
542.	75			Float	
				2 7/8	
560	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-10	soil-clay	10	
9	Lime	19	
13	Shale	32	
32	Lime	64	
7	Shale	71	
22	Lime	93	
4	Shale	97	
2	Lime	99	
6	Shale	105	
5	Lime	110	Heatha
21	Shale	131	
12	Sand	143	broken Oil
42	sandy shale	185	
84	Shale	269	
14	Sand	283	no Oil
37	Shale	320	
4	Lime	324	
18	Shale	342	
11	Lime	353	
13	Shale	366	
6	Lime	372	
10	Shale	382	
26	Lime	408	
76	Shale	484	
17	core	501	page 6
59	Shale	560	TD

Thickness of Strata	Formation	Total Depth	Remarks
	CORE		
		484	
1.5	sand	485.5	solid oil - good show
3	sandy shale	488.5	
1	broken sand	489.5	good oil
1	sandy shale	490.5	
2.5	sand	493	broken oil - good show
4	sand	497	solid - good show
4	sandy shale	501	no oil



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# 806799

Invoice Date: 01/07/16 Terms: Net 30 Page 1

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

Holtz #A-5

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)	70.000	13.5000	46.000	510.30
CC5965	Bentonite	218.000	0.3000	46.000	35.32
CC5326	Sodium Chloride, Salt	135.000	0.7500	46.000	54.68
CC6077	Kolseal	350.000	0.5000	46.000	94.50
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 3,806.15
 Discounted Amount 1,750.83
 SubTotal After Discount 2,055.32

Amount Due 3,912.68 If paid after 02/06/16

Tax: 57.53
 Total: 2,112.86



CONSOLIDATED
Oil Well Services, LLC

PO Box 864, Chanute, KS 66720
620-431-9210 or 800-467-8676

Invoice # 806799

5108
402

TICKET NUMBER 49958

LOCATION Ottawa KS

FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-6-16	3244	Holtz # A-5	SW 16	18	24	MI
CUSTOMER			TRUCK #			
Mailing Address			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
Wellsville			Ks			
66092			510			

JOB TYPE Longstray HOLE SIZE 5 7/8 HOLE DEPTH 560 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 542 DRILL PIPE Baffle tubing @ 511 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING 3' + Plug
 DISPLACEMENT 2.97 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold safety nutty. Establish circulation. Mix & Pump 100# Gel Flush. Mix & Pump 70 sks Por Blend I-A 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 600# PSI. Release pressure to set float valve. Shut in casing.

TGS Drilling - (uses)

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	.1	PUMP CHARGE	1500.00	
CE0002	30mi	MILEAGE	214.50	
CE0711	Minimum	Ton Miles Delivery	660.00	
WE0853	1 hr	80 BBL Vac Truck	100.00	
		Sub Total	2474.50	
		Less 46%	-1138.27	1336.23
CC5840	70 sks	Por Blend I-A Cement	945.00	
CC5965	218#	Bentonite Gel	654.00	
CC5326	135#	Salt	101.25	
CE6079	350#	Kol Seal	175.00	
CP8176	1	2 1/2" Rubber Plug	45.00	
		Sub Total	1331.65	
		Less 46%	-612.53	719.12
		8%	SALES TAX	57.53
		ESTIMATED TOTAL		2112.88

Ravin 3737

AUTHORIZATION No Co Rep on Site

TITLE _____

DATE 3/9/12.68

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.