

Miami County, KS
Well: Kuhn A-3
Lease Owner: Altavista Energy

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

Commenced Spudding:
7-14-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 6	Soil - Clay	6
10	Lime	16
6	Clay	22
68	Lime	90
40	Shale	130
14	Lime	144
12	Shale	156
5	Lime	161
41	Shale	202
10	Lime	212
15	Shale	227
25	Lime	252
8	Shale	260
21	Lime	281
4	Shale	285
2	Lime	287
6	Shale	293
5	Lime	298
8	Shale	306
5	Sand	311
23	Shale	334
5	Sand	339
19	Sand & Shale	358
12	Sand	370
40	Shale	410
8	Sand	418
5	Sandy Shale	423
74	Shale	497
5	Lime	502
2	Shale	504
6	Lime	510
6	Shale	516
10	Lime	526
17	Shale	543
5	Lime	548
10	Shale	558
3	Lime	561
12	Shale	573
5	Lime	578
8	Shale	586

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-3

Farm Kuhn

KS Miami
(State) (County)

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

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

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

Thickness of Strata	Formation	Total Depth	Remarks
0-6	soil-clay	6	
10	Lime	16	
6	clay	22	
68	Lime	90	
40	Shale	130	
14	Lime	144	
12	Shale	156	
5	Lime	161	
41	Shale	202	
10	Lime	212	
15	Shale	227	
25	Lime	252	
8	Shale	260	
21	Lime	281	
4	Shale	285	
2	Lime	287	
6	Shale	293	
5	Lime	298	Heltha
8	Shale	306	
5	sand	311	
23	Shale	334	Oil - Heavy
5	sand	339	
19	sand & shale	358	no oil
12	sand	370	no oil
40	Shale	410	grey
8	sand	418	
5	sandy shale	423	grey - gas odor

423

Thickness of Strata	Formation	Total Depth	Remarks
	Shale	497	
5	Lime	502	
2	Shale	504	
6	Lime	510	
6	Shale	516	
10	Lime	526	
17	Shale	543	
5	Lime	548	
10	Shale	558	
3	Lime	561	
12	Shale	573	
5	Lime	578	
8	Shale	586	
1	Lime	587	
16	Shale	603	
2	Lime	605	
24	Shale	629	
1	Lime	630	
17	Shale	647	
3	sandy shale	650	
13	sand	663	gas
3	sand	666	broken - good show
7	sand	673	solid - good show
11	sand	684	water
7	Shale	691	
2	Lime	693	
67	Shale	760	T.D.



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# 804975

Invoice Date: 07/20/15 Terms: Net 30 Page 1

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

kuhn # a-3

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)	1.500	100.0000	46.000	81.00
CC5840	Poz-Blend I A (50:50)	127.000	13.5000	46.000	925.83
CC5965	Bentonite	314.000	0.3000	46.000	50.87
CC5326	Sodium Chloride, Salt	235.000	0.7500	46.000	95.18
CC6077	Kolseal	635.000	0.5000	46.000	171.45
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30
Subtotal					4,871.95
Discounted Amount					2,241.10
SubTotal After Discount					2,630.85

Amount Due 5,059.75 If paid after 08/19/15

Tax: 101.41
 Total: 2,732.27



CONSOLIDATED
Oil Well Services, LLC

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

3532
3452

Invoice # 804975
FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 49712
LOCATION Ottawa KS
FOREMAN Fred Madar

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-15-15	3244	Kuhn # A3	16	16	24	mi
CUSTOMER Altavista Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			712 / Fred Madar			
CITY STATE ZIP CODE Wellsville KS 66092			467 / Heidi Det			
			675 / Kai Car			
			548 / Tom Har			

JOB TYPE Longstring HOLE SIZE 6 7/8 HOLE DEPTH 760 CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 750 DRILL PIPE _____ TUBING 717 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE 43PM

REMARKS: Hold Safety meeting. Establish pump rate. Mix & Pump 100# Gel Flush. Mix & Pump 127 sks Poz Blend I A Cement 2 7/8 Gel 5% Salt 5# Kal 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.

Phil was here
TAS Drilling, Wes Fred Madar

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	467 1500.00	
CE0002	30 mi	MILEAGE	467 214.50	
CE0711	Minimum	Ten Miles Delivery	548 660.00	
WE0853	1 1/2 hrs	80 Vac	75 150.00	
		Sub Total	2524.50	
		less 46%	-1161.27	1363.23
CC5840	127 sks	Poz Blend I A Cement	1714.50	
CC5965	314#	Bentonite Gel	942.00	
CC5326	235#	Salt	176.25	
CC6077	635#	Kal Seal	317.50	
CP8176	1	2 1/2" Rubber Plug	45.00	
		Sub Total	2347.45	
		less	-1079.83	1267.62
		8% SALES TAX		101.41

Flavin 3737 ESTIMATED TOTAL 2732.29
DATE 3059.75

AUTHORIZATION Bryan Mills TITLE _____

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.