

Miami County, KS
Well: Kuhn A-13
Lease Owner: Altavista Energy

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

Commenced Spudding:
7-16-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 9	Soil - Clay	9
57	Lime	66
39	Shale	105
14	Lime	119
12	Shale	131
5	Lime	136
42	Shale	178
9	Lime	187
16	Shale	203
26	Lime	229
8	Shale	237
18	Lime	255
4	Shale	259
3	Lime	262
5	Shale	267
6	Lime	273
7	Shale	280
4	Sand	284
16	Shale	300
44	Sandy Shale	344
28	Sand	372
53	Shale	425
4	Limey Sand	429
26	Shale	455
3	Limey Sand	458
18	Shale	476
5	Lime	481
2	Shale	483
7	Lime	490
5	Shale	495
9	Lime	504
18	Shale	522
5	Lime	527
9	Shale	536
7	Lime	543
9	Shale	552
4	Lime	556
42	Shale	598
1	Lime	599
15	Shale	614

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-13

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
0-9	soil-clay	9	
57	Lime	66	
39	shale	105	
14	Lime	119	
12	shale	131	
5	Lime	136	
42	shale	178	
9	Lime	187	
16	shale	203	
26	Lime	229	
8	shale	237	
18	Lime	255	
4	shale	259	
3	Lime	262	
5	shale	267	
6	Lime	273	Heather
7	shale	280	
4	sand	284	broken Oil
16	shale	300	
44	sandy shale	344	
28	sand	372	water
53	shale	425	
4	limy sand	429	
26	shale	455	
3	limy sand	458	
18	shale	476	
5	Lime	481	



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# 804994

Invoice Date: 07/21/15 Terms: Net 30 Page 1

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

Kuhn #A-13

Table with 6 columns: Part No, Description, Quantity, Unit Price, Discount(%), Total. Rows include items like Cement Pump Charge, Equipment Mileage Charge, Minimum Cement Delivery Charge, etc.

Subtotal 4,831.00
Discounted Amount 2,222.26
SubTotal After Discount 2,608.74

Amount Due 5,011.52 If paid after 08/20/15

Tax: 97.48
Total: 2,706.22



CONSOLIDATED
Oil Well Services, LLC

3557
3477

TICKET NUMBER 49730

Invoice # 804994

LOCATION Osborne, KS

FOREMAN Carey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
7/17/15	3244	Kuhn # A-13	S16	16	24	M1	
CUSTOMER <u>Altavista Energy</u>							
MAILING ADDRESS <u>PO Box 128</u>							
CITY <u>Wellsville</u>		STATE <u>KS</u>	ZIP CODE <u>66609</u>				
		TRUCK #		DRIVER			
		<u>729</u>		<u>Carlen</u>		<input checked="" type="checkbox"/>	
		<u>467</u>		<u>Kai Car</u>		<input checked="" type="checkbox"/>	
		<u>503</u>		<u>Trotter</u>		<input checked="" type="checkbox"/>	
		<u>675</u>		<u>Art McD</u>		<input checked="" type="checkbox"/>	

JOB TYPE langstring HOLE SIZE 6 3/4" HOLE DEPTH 700' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 689' DRILL PIPE _____ TUBING baffle - 660' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 29'
 DISPLACEMENT 3.82 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200# gel followed by 5 bbls fresh water, mixed & pumped 119 sks 50/50 Pozmix cement w/ 2% gel, 5% salt, & 5 # Kalsol per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 3.82 bbls fresh water, pressured to 800 PSI, released pressure, shot in casing.

[Handwritten signature]

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	30 mi	MILEAGE	214.50	
CE0711	min	ten mileage	660.00	
WE0853	2 hrs	DD Vac	200.00	
		trucks	2574.50	
		-40%	1184.27	
		subtotal		1390.23
CC5840	119 sks	50/50 Pozblend cement	1606.50	
CC5965	400 #	Gel	120.00	
CC5326	250 #	Salt	187.50	
CC6077	595 #	Kalsol	297.50	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	2256.50	
		-40%	1037.99	
		subtotal		1218.51
		8.7%	SALES TAX	97.48
			ESTIMATED TOTAL	2706.25
				(5011.52)

AUTHORIZATION Bryan Miller 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.