

Miami County, KS
Well: Kuhn A-1
Lease Owner: Altavista Energy

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

Commenced Spudding:
7-17-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 5	Soil - Clay	5
7	Lime	12
7	Clay	19
2	Shale	21
17	Lime	38
5	Shale	43
43	Lime	86
40	Shale	126
14	Lime	140
11	Shale	151
5	Lime	156
41	Shale	197
10	Lime	207
16	Shale	223
25	Lime	248
7	Shale	255
20	Lime	275
4	Shale	279
2	Lime	281
7	Shale	288
5	Lime	293
11	Shale	304
4	Lime	308
95	Shale	403
4	Limey Sand	407
33	Shale	440
4	Limey Sand	444
28	Shale	472
3	Lime	475
19	Shale	494
5	Lime	499
2	Shale	501
5	Lime	506
6	Shale	512
9	Lime	521
18	Shale	539
4	Lime	543
9	Shale	552
4	Lime	556
12	Shale	568

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 $BPH \times PSI \times .0004$

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-1

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
0-5	Soil - clay	5	
7	Lime	12	
7	Clay	19	
2	Shale	21	
17	Lime	38	
5	Shale	43	
43	Lime	86	
40	Shale	126	
14	Lime	140	
11	Shale	151	
5	Lime	156	
41	Shale	197	
10	Lime	207	
16	Shale	223	
25	Lime	248	
7	Shale	255	
20	Lime	275	
4	Shale	279	
2	Lime	281	
7	Shale	288	
5	Lime	293	
11	Shale	304	Hertha
4	Sand	308	Broken Oil
95	Shale	403	
4	Limey sand	407	
33	Shale	440	
4	Limey sand	444	

444

Thickness of Strata	Formation	Total Depth	Remarks
28	Shale	472	
3	Lime	475	
19	Shale	494	sandy
5	Lime	499	
2	Shale	501	
5	Lime	506	
6	Shale	512	
9	Lime	521	
18	Shale	539	
4	Lime	543	
9	Shale	552	
4	Lime	556	
12	Shale	568	
5	Lime	573	
81	Shale	654	
5	Sand	659	
19	Coal	678	gas
2	Sand	680	page 6
7	Shale	687	no Oil
1	Lime	688	
52	Shale	740	TD



CONSOLIDATED
Oil Well Services, LLC

3726
3652

TICKET NUMBER 49740
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

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

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 80575

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/27/15	3244	Kuhn # A-1	S16	16	24	MI
CUSTOMER Alavista Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS PO Box 128			729 / Casken / Safety Meeting			
CITY Wellsville			467 / KeiCar /			
STATE KS			548 / HarBec /			
ZIP CODE 66092			675 / KeiDet /			

JOB TYPE longstring HOLE SIZE 6 3/4" HOLE DEPTH 740' CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 721 DRILL PIPE _____ TUBING baffle - 692' OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 29'
DISPLACEMENT 4.01 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 131 sks 50/50 Pozblend cement w/ 2% gel, 5% salt, + 5 # Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.01 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

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	600.00	
WE0853	2 hrs	80 vac	200.00	
		trucks	2574.50	
		-46%	1184.27	
		Subtotal		1390.23
CC5840	131 sks	50/50 Pozblend	1768.50	
CC5965	420 #	Gel	126.00	
CC5326	275 #	Salt	206.25	
CC6077	655 #	Kalseal	327.50	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	2473.25	
		-46%	1137.70	
		Subtotal		1335.55
		8%		
		SALES TAX		106.84
		ESTIMATED TOTAL		2832.62

Ravin 3737

AUTHORIZATION Bryan Mills TITLE _____ DATE 5/24/15

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 to