

Miami County, KS
 Well: Knoche AI-31
 Lease Owner: AltaVista

Town Oilfield Service, Inc.
 (913) 294-2125

Commenced Spudding:
 9/14/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-7	Soil-Clay	7
5	Lime	12
14	Shale	26
33	Lime	59
7	Shale	66
19	Lime	85
3	Shale	88
2	Lime	90
4	Shale	94
6	Lime	100
23	Shale	123
9	Sand	132
11	Sandy Shale	143
120	Shale	263
6	Sandy Lime	269
29	Shale	298
7	Red Bed	305
4	Shale	309
6	Lime	315
13	Shale	328
1	Lime	329
7	Shale	336
8	Lime	344
15	Shale	359
5	Lime	364
10	Shale	374
22	Lime	396
7	Shale	403
3	Lime	406
9	Shale	415
3	Lime	418
28	Shale	446
5	Sandy Shale	451
20	Shale	471
3	Sand	474
4	Sand	478
18	Sandy Shale	496
64	Shale	560-TD

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 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.

AI-31

Farm

Knoche

(State)

KS

(County)

Miami

(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
0-7	soil-clay	7	
5	Lime	12	
14	Shale	26	
33	Lime	59	
7	Shale	66	
19	Lime	85	
3	Shale	88	
2	Lime	90	
4	Shale	94	
6	Lime	100	Heather
23	Shale	123	
9	sand	132	broken - good oil show
11	sandy shale	143	
120	Shale	263	
6	sandy lime	269	white - no oil
29	Shale	298	
7	redbed	305	
4	Shale	309	
6	Lime	315	
13	Shale	328	
1	Lime	329	
7	Shale	336	
8	Lime	344	
15	Shale	359	
5	Lime	364	
10	Shale	374	
22	Lime	396	



REMIT TO
QES Pressure Pumping 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#

811283

Invoice Date: 09/19/17

Terms: Net 30

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ALTAVISTA ENERGY INC
PO BOX 128
WELLSVILLE KS 66092
USA
7858834057

KNOCHE #AI-31

Tax: 49.15

Total: 1,844.52



PRESSURE PUMPING LLC

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

9005
8955

TICKET NUMBER 53875

LOCATION OTTAWA KS

FOREMAN FRED MADER

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 8/1283

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-15-17	3244	Knocks # AI-31	NW 16	18	24	M.
CUSTOMER Alta Vista Energy Inc			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			712 / Fred Mad /			
CITY STATE ZIP CODE Wellsville KS 66092			495 / Har Ber /			
			369 / Mike Hood /			
			804 / Arl McD /			

JOB TYPE Long string HOLE SIZE 3 7/8 HOLE DEPTH 560' CASING SIZE & WEIGHT 2 7/8
 CASING DEPTH 536 DRILL PIPE Baffle M TUBING @ 507 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 29' + Plug
 DISPLACEMENT 2.95 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold Safety meeting. Establish pump rate. Pump 1/2 Gal Mud
 Flush - C & Circulate well to condition hole. Mix & Pump
 100* Gal Flush. Mix & Pump SKS Por Blend IA Cement
 2 1/2 Gal 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 700* PSI. Release pressure to set
 float valve. Shut in Casing

TOS Drilling

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500.00
CE0002	30 mi	MILEAGE	495	21450
CE0711	Minimum	Ten Miles Delivery	804	640
WE0853	24 hr	80 BBL Vac Truck	369	250
		Sub Total		2624.50
		less 55%		1181.03
1397 CC5840	68 SKS	Por Blend IA Cement	918.00	
CC5965	215* 214*	Bentonite Gel	6420	
CC5326	143*	Salt	143.00	
CC6077	340*	Kal Seal	170.00	
CC6125	1/2 Gal	Mud Flush - C	25.00	
CP6176	1	2 1/2" Rubber Plug	45.00	
		Sub Total		1365.00
		less 55%		614.34
		8%		49.15
		SALES TAX		49.15
		ESTIMATED TOTAL		1844.52

Ravin 3737

AUTHORIZATION No Co Repair Etc. TITLE _____ DATE (409893)

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.