

Miami County, KS
 Well: Knoche A-25
 Lease Owner: AltaVista

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

Commenced Spudding:
 9/11/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-10	Soil-Clay	10
7	Lime	17
3	Shale	20
21	Lime	41
9	Shale	50
22	Lime	72
4	Shale	76
2	Lime	78
5	Shale	83
5	Lime	88
23	Shale	111
8	Sand	119
13	Sandy Shale	132
117	Shale	249
8	Sandy Lime	257
41	Shale	298
5	Lime	303
7	Shale	310
4	Lime	314
8	Shale	322
8	Lime	330
15	Shale	345
5	Lime	350
10	Shale	360
24	Lime	384
6	Shale	390
3	Lime	393
9	Shale	402
3	Lime	405
27	Shale	432
6	Sandy Shale	438
19	Shale	457
1	Sandy Shale	458
18	Core	476
10	Sandy Shale	486
54	Shale	540-TD

[illegible]

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-25

Farm Knocke

KS Miami
(State) (County)

16 18 24
(Section) (Township) (Range)

For Altavesta Energy
(Well Owner)

Town Oilfield Services, Inc.

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

Knoche Farm: M. 24 County

State; Well No. A-25

Elevation 905

Commenced Spuding 9-11 2017

Finished Drilling 9-13 20' 7"

Driller's Name Wesley Dollard

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Drape William

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name TOS

16 18 24
 (Section) (Township) (Range)

Distance from 5 line, 3050 ft.

Distance from E line, 4550 ft.

3 sacks 2 7/8 casing
10 hrs

1002

578 bare help

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 5/8" Set 20 6 1/4" Pulled

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-10	Soil-clay	10	
7	Lime	17	
3	Shale	20	
21	Lime	41	
9	Shale	50	
22	Lime	72	
4	Shale	76	
2	Lime	78	
5	Shale	83	
5	Lime	88	Heather
23	Shale	111	
8	Sand	119	broken - good oil show
13	Sandy Shale	132	
117	Shale	249	
8	sandy Lime	257	white - no oil
41	Shale	298	254 - red bed
5	Lime	303	
7	Shale	310	
4	Lime	314	
8	Shale	322	
8	Lime	330	
15	Shale	345	
5	Lime	350	
10	Shale	360	
24	Lime	384	
6	Shale	390	
3	Lime	393	

393

[illegible]



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#

811253

Invoice Date: 09/14/17

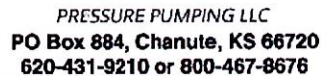
Terms: Net 30

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ALTAVISTA ENERGY INC
PO BOX 128
WELLSVILLE KS 66092
USA
7858834057

KNOCHE #A-25

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	55.000	675.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	55.000	96.53
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	55.000	297.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.000	100.0000	55.000	90.00
CC5840	Poz-Blend I A (50:50)	67.000	13.5000	55.000	407.03
CC5965	Bentonite	213.000	0.3000	55.000	28.76
CC5326	Sodium Chloride, Salt	140.000	1.0000	55.000	63.00
CC6077	Kolseal	335.000	0.5000	55.000	75.38
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	55.000	20.25
Subtotal					3,895.40
Discounted Amount					2,142.47
SubTotal After Discount					1,752.93
Amount Due 4,001.07 If paid after 10/14/17					
Tax:					47.56
Total:					1,800.51



Knoche

LOCATION Oxtawa HS

FOREMAN Fred Mader

Invoice # 811253

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-13-17	3244	Kupukha # A-25	NE 16	18	24	Mt
CUSTOMER						
Alta Vista Energy Inc						
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
128 P.O. Box 128			712	Fra Mad		
			495	Nor Bec		
CITY	STATE	ZIP CODE	369	Mik Nea		
Wellsville	KS	66092	804	Ki Kar		

JOB TYPE <u>Long Str. L</u>	HOLE SIZE <u>5 7/8</u>	HOLE DEPTH <u>540'</u>	CASING SIZE & WEIGHT <u>2 7/8 EUE</u>
CASING DEPTH <u>517'</u>	DRILL PIPE <u>BaFP1</u>	TUBING @ <u>485'</u>	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT In CASING <u>32' Plug</u>
DISPLACEMENT <u>2.82 BA</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>4.3 PM</u>

REMARKS: Hold Safety meeting. Establish pump rate. Mix & Pump 100# Gel Flush, Mix & Pump 67 sks for Bleed 1 A Cement 270 Gel 5% salt 5# Hal Seal/sk. Cement to surface. Flush pump & lines clean. Displace 2 1/2" Rubber plug to casing T.D. - Baffle pressure to 700# PSI. Release pressure to set Floo Valve. Shut in Casing.

TOS Drilling

Fred Mader

[illegible]

Bayin 3737

AUTHORIZATION

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