

Miami County, KS
Well: Knoche A-1
Lease Owner: AltaVista

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

Commenced Spudding:
1/21/2016

Core		
		482
3	Sand	485
1.5	Sand	486.5
1	Sandy Shale	487.5
2	Sand	489.5
8	Shale	497.5

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-1

Farm Knoche

KS Miami
(State) (County)

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

For Altavista Energy inc.
(Well Owner)

Town Oilfield Services, Inc.

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

Knoche Farm: Miami County

KS State; Well No. A-1

Elevation 906

Commenced Spuding 1-21 .20 16

Finished Drilling 1-22 .20 16

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

16 18 24

(Section) (Township) (Range) Distance from S line, 1485 ft.

Distance from E line, 4260 ft.

3 sacks 2 7/8 casing
1 core
9 hrs
5 5/8 borehole

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
8" Set _____ 8" Pulled _____
7" Set 23 6 1/2" Pulled _____
4" Set _____ 4" Pulled _____
2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
478	-	Seat nipple			
509	.70	Ball	1/2		
537	.90	Float			
560	TD				2 7/8

Thickness of Strata	Formation	Total Depth	Remarks
0-9	soil - clay	9	
8	Lime	17	
13	shale	30	
32	Lime	62	
9	shale	71	
19	Lime	90	
4	shale	94	
3	Lime	97	
4	shale	101	
6	Lime	107	
21	shale	128	Healthy
9	sand	137	
20	sandy shale	157	odor
109	shale	266	
12	sand	278	
	shale	317	water
5	Lime	322	
6	shale	328	
5	Lime	333	
11	shale	344	
7	Lime	351	
15	shale	366	
4	Lime	370	
12	shale	382	
24	Lime	406	
18	shale	424	
2	Lime	426	

Thickness of Strata	Formation	Total Depth	Remarks
	CORR		
		482	
3	sand	485	solid - OK saturation
1.5	sand	486.5	solid - good saturation
1	sandy shale	487.5	NO oil
2	sand	489.5	solid - great saturation
8	shale	497.5	no oil



CONSOLIDATED
Oil Well Services, LLC

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#

806896

Invoice Date: 01/26/16

Terms: Net 30

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ALTAVISTA ENERGY INC

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

knoche #a-1

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)	1.000	100.0000	46.000	54.00
CC5840	Poz-Blend I A (50:50)	72.000	13.5000	46.000	524.88
CC5965	Bentonite	221.000	0.3000	46.000	35.80
CC5326	Sodium Chloride, Salt	139.000	0.7500	46.000	56.30
CC6077	Kolseal	360.000	0.5000	46.000	97.20
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 3,842.05

Discounted Amount 1,767.34

SubTotal After Discount 2,074.71

Amount Due 3,951.45 If paid after 02/25/16

Tax: 59.08

Total: 2,133.79



CONSOLIDATED
Oil Well Services, LLC

Invoice # **806896** ⁵²⁰³/₅₁₀₈

TICKET NUMBER 49967
LOCATION Ottawa KS
FOREMAN Fred Mader

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-22-16	3244	Knoche # A-1	SW 16	18	24	MI
CUSTOMER Altavista Energy Inc			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			762 / Fred Mad			
CITY STATE ZIP CODE Wellsville KS 66092			495 / Har Bec			
			369 / Milk Naa			
			510 / Ari McD			

JOB TYPE Logstring HOLE SIZE 5 7/8 HOLE DEPTH 560' CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 537' DRILL PIPE Baffle in TUBING @ 509 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 28' x Plug
DISPLACEMENT 2.96 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold safety mixing. Establish pump rate. Mix + Pump 100' Gel
Flush. Mix + Pump 72SKS Per Blend IA Cement 2% 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.

Fred Mader

TOS Drilling - Westy Ballard.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0450	1	PUMP CHARGE	495	1500.00
CE 0002	30 mi	MILEAGE	495	21450.00
CE 074	Minimum	Ten Miles Delivery	510	6600.00
WF 0853	1 hr	80 BBL Vac Truck	369	1000.00
		Sub Total		24745.00
		Less 4% ⁶		-1188.27
				1336.23
7596 CE 5846	72 sks	Per Blend IA Cement	972.00	70064.00
CE 5965	221 #	Bentonite Gel	462.00	10208.20
CE 5306	139 #	Salt	104.25	14490.75
CE 6077	360 #	Kal Seal	180.00	64800.00
CP 8176	1	2 1/2" Rubber Plug	45.00	45.00
		Sub Total		1367.55
		Less 4% ⁶		-629.27
				738.28
		SALES TAX		59.08
		ESTIMATED TOTAL		2133.29

Ravin 3737

AUTHORIZATION No Co Rep on Site. TITLE _____ DATE 3/9/17 45

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.