

Woodson County, KS
Well: Strahm West AI-30
Lease Owner: AltaVista

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

Commenced Spudding:
9/12/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-19	Soil-Clay	19
143	Shale	162
15	Lime	177
5	Sand	182
15	Lime	197
5	Shale	202
22	Lime	224
11	Shale	235
134	Lime	369
4	Shale	373
19	Lime	392
52	Lime	444
36	Shale	480
1	Lime	481
19	Shale	500
2	Lime	502
9	Shale	511
18	Lime	529
1	Shale	530
48	Lime	578
8	Shale	586
25	Lime	611
4	Shale	615
26	Lime	641
163	Shale	804
8	Lime	812
17	Shale	829
9	Lime	838
8	Shale	846
14	Sand	860
40	Shale	900
2	Lime	902
5	Shale	907
9	Lime	916
13	Shale	929
4	Lime	933
14	Shale	947
7	Lime	954
12	Shale	966
9	Lime	975

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-30

Farm Strahm West

KS Woodson
(State) (County)

11 24 16
(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
0-19	Soil - clay	19	
143	Shale	162	
15	Lime	177	
5	sand	182	
15	Lime	197	
5	Shale	202	
22	Lime	224	
11	Shale	235	
134	Lime	369	
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8	Lime	812	
17	Shale	829	



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# 814137

Invoice Date: 09/19/18 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

STRAHM WEST #AI 30

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	45.000	825.00
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	45.000	363.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.500	100.0000	45.000	137.50
CC5840	Poz-Blend I A (50:50)	140.000	13.5000	45.000	1,039.50
CC5965	Bentonite	335.000	0.3000	45.000	55.28
CC5326	Sodium Chloride, Salt	270.000	1.0000	45.000	148.50
CC6077	Kolseal	700.000	0.5000	45.000	192.50
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	45.000	24.75
CC6128	Mud Flush - C	0.500	50.0000	45.000	13.75

Subtotal 5,090.50
 Discounted Amount 2,290.73
 SubTotal After Discount 2,799.77

Amount Due 5,291.54 If paid after 10/19/18

Tax: 110.57
 Total: 2,910.35



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

11899

11486

Invoice #814137

TICKET NUMBER 55478

LOCATION Orthway, KS

FOREMAN Jim Grech

FIELD TICKET & TREATMENT REPORT
CEMENT

Jim Grech

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
09.14.18	3244	Straham West #AT 30	HW 11	24	16	WO
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Alvasta Energy			667	Jim Grech		
MAILING ADDRESS			462	Kei Carr		
PO Box 128			675	Kei Carr		
CITY	STATE	ZIP CODE	548	Ala Mad		
Wellsville	Ks	66092				

JOB TYPE Long String HOLE SIZE 5 5/8" HOLE DEPTH 1140' CASING SIZE & WEIGHT 2 7/8"
 CASING DEPTH 1120' DRILL PIPE Baffle 1090' TUBING OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Held Safety Meeting. Established Circulation. Mix and pump 1/2" GAL Mud Flush C Polymer. Circulated to condition hole. Mix and pump 100' gal Followed with 5 BBL Fresh water. Mix and pump 140 SK Poz-Bleed IA with 2" gal, 5 seals, 5" KOI-seal. Cement to surface. Flush pump clear of cement. Pump 2 7/8" rubber plug to baffle. Pressure up to 600 PSI well held set flow water.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0950	1	PUMP CHARGE	1500.00	
CE0002X	0	MILEAGE		
CE0711	Min	Trip Mileage	660.00	
WE0853	2 1/2	80 / VAC	280.00	
		Trucker	2410.00	
		- 45%	1084.50	
		Sub Total		1325.50
CC584N	140 sk	Poz Bleed IA Cement	1890.00	
CC59651	335"	GAL	100.50	
CC53261	270"	Sale	270.00	
CC6077	700"	KOI-Seal	350.00	
CP8176	one	2 7/8" rubber Plug	45.00	
CC6128	1/2 GAL	Mud Flush C Polymer	25.00	
		Materials	2680.50	
		- 45%	1206.23	1474.28
		SALES TAX 7.5%		110.57
		ESTIMATED TOTAL		2910.85

SCANNED

AUTHORIZATION Bryan Miller TITLE _____ DATE (52 91 54)

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.