

Miami County, KS  
 Well:W. Goetz A-21  
 Lease Owner:AltaVista

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

Commenced Spudding:  
 9/12/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
6	Soil-Clay	6
14	Lime	20
8	Shale	28
6	Lime	34
41	Shale	75
14	Lime	89
10	Shale	99
30	Lime	129
8	Shale	137
20	Lime	157
6	Shale	163
3	Lime	166
2	Shale	168
6	Lime	174
101	Shale	275
5	Sand	280
27	Shale	307
9	Shale	316
17	Shale	333
11	Lime	344
1	Shale	345
2	Sand	347
4	Sandy Shale	351
5	Shale	356
9	Sand	365
6	Sandy Shale	371
23	Shale	394
9	Lime	403
11	Shale	414
2	Lime	416
14	Shale	430
8	Lime	438
20	Shale	458
3	Lime	461
3	Shale	464
7	Lime	471
4	Shale	475
1	Sand	476
2	Sand	478
1	Sand	479



# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times h \times 14$

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. A-21

Farm West Goetz

KS Miami  
(State) (County)

8 18 22  
(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
6	soil layer	6	
14	lime	20	
8	shale	28	
6	lime	34	
41	shale	75	
14	lime	89	
10	shale	99	
30	lime	129	
8	shale	137	
20	lime	157	
6	shale	163	
3	lime	166	
2	shale	168	
6	lime	174	
101	shale	275	Hertha
5	sand	280	
27	shale	307	grey - no oil
9	shale & lime	316	
17	shale	333	
11	lime	344	
1	shale	345	
2	sand	347	
4	sandy shale	351	no oil
5	shale	356	
9	sand	365	
6	sandy shale	371	gas
23	shale	394	



394

Thickness of Strata	Formation	Total Depth	Remarks
9	Lime	403	
11	Shale	414	
2	Lime	416	
14	Shale	430	
8	Lime	438	
20	Shale	458	
3	Lime	461	
3	Shale	464	
7	Lime	471	
4	Shale	475	
1	Sand	476	no oil
2	Sand	478	broken - 50%
1	Sand	479	solid
2	Sand	481	broken - 50%
1	Sand	482	solid
2	Sand	484	broken - 50%
2	Sand	486	solid
1	sand & lime	487	solid sand
4	sandy shale	491	} good show
62	Shale	553	
4	Sand	557	
25	Shale	582	
3	sandy shale	585	
1	sand & lime	586	no oil
1	Sand <del>shale</del>	587	no oil
16	Shale	603	
10	sandy shale	613	





**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. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 271181

Invoice Date: 09/19/2014 Terms: 0/30/10,n/30

Page 1

ALTAVISTA ENERGY INC  
4595 K-33 HIGHWAY  
P.O. BOX 128  
WELLSVILLE KS 66092  
(785) 883-4057

W GOETZ #A-21  
48203  
NE8-18-22  
9-15-14  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	84.00	11.5000	966.00
1118B	PREMIUM GEL / BENTONITE	241.00	.2200	53.02
1111	SODIUM CHLORIDE (GRANULA	163.00	.3900	63.57
1110A	KOL SEAL (50# BAG)	420.00	.4600	193.20
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
Sublet Performed				Total
9995-120	CEMENT EQUIPMENT DISCOUNT			-382.74
Description	Hours	Unit Price	Total	
495 CEMENT PUMP	1.00	1085.00	1085.00	
495 EQUIPMENT MILEAGE (ONE WAY)	25.00	4.24	106.00	
495 CASING FOOTAGE	566.00	.00	.00	
503 MIN. BULK DELIVERY	1.00	368.00	368.00	
675 80 BBL VACUUM TRUCK (CEMENT)	1.50	100.00	150.00	

Amount Due 3114.15 if paid after 09/29/2014

Parts:	1305.29	Freight:	.00	Tax:	70.58	AR	2702.13
Labor:	.00	Misc:	.00	Total:	2702.13		
Sublt:	-382.74	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_



