

Miami County, KS
Well: Owen AI-59
Lease Owner: Altavista Energy

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

Commenced Spudding:
1/15/2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 7	Soil - Clay	7
20	Lime	27
13	Shale	40
3	Lime	43
39	Shale	82
15	Lime	97
9	Shale	106
30	Lime	136
7	Shale	143
24	Lime	167
5	Shale	172
2	Lime	174
4	Shale	178
5	Lime	183
21	Shale	204
36	Sand & Sandy Shale	240
47	Shale	287
4	Sand	291
26	Shale	317
7	Sandy Lime	324
17	Shale	341
8	Lime	349
9	Sand	358
4	Shale	362
8	Sand	370
32	Shale	402
9	Lime	411
9	Shale	420
3	Lime	423
14	Shale	437
9	Lime	446
18	Shale	464
2	Lime	466
4	Shale	470
6	Lime	476
5	Shale	481
14	Sand	495
55	Shale	550
20	Sandy Shale	570
9	Shale	579

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-59

Farm Owen

KS Miami
(State) (County)

8 K8 22
(Section) (Township) (Range)

For Alkavista 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	
20	Lime	27	
13	Shale	40	
3	Lime	43	
39	shale	82	
15	Lime	97	red bed
9	Shale	106	
30	Lime	136	
7	shale	143	
24	Lime	167	slate
5	Shale	172	
2	Lime	174	slate
4	Shale	178	
5	Lime	183	
21	shale	204	Heather
36	sand & sandy shale	240	
47	shale	287	no oil
4	sand	291	
26	Shale	317	no oil
7	sandy Lime	324	
17	Shale	341	odor - no show
8	Lime	349	
9	sand	358	
4	shale	362	grey - no oil
8	sand	370	
32	shale	402	grey - no oil
9	Lime	411	



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# 803070

Invoice Date: 01/21/15 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 4595 K-33 HIGHWAY, **PO-Box 128**
 WELLSVILLE KS 66092
 USA
 7858834057

OWENS #A-150
AJ-59

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.000	1,085.0000	0.000	1,085.00
5406	Mileage Charge	20.000	4.2000	0.000	84.00
5402	Casing Footage	667.060	0.0000	0.000	0.00
5407	Min. Bulk Delivery Charge	1.000	368.0000	0.000	368.00
5502C	80 Vacuum Truck Cement	1.500	100.0000	0.000	150.00
1124	Poz Cement Mix	88.000	11.5000	30.000	708.40
1118B	Premium Gel / Bentonite	248.000	0.2200	30.000	38.19
1111	Sodium Chloride (Granulated Salt)	184.000	0.3900	30.000	50.23
1110A	Kol Seal (50# BAG)	440.000	0.4600	30.000	141.68
4402	2 1/2 Rubber Plug	1.000	29.5000	0.000	29.50
1401	HE 100 Polymer	0.500	47.2500	0.000	23.63

Subtotal 3,080.85
 Discounted Amount 402.22
 SubTotal After Discount 2,678.63

Amount Due 3,187.47 If paid after 02/20/15

Tax: 75.86
 Total: 2,754.49



CONSOLIDATED
Oil Well Services, LLC

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

1856

INVOICE # 803070 / 1796

TICKET NUMBER 50807

LOCATION Ottawa KS

FOREMAN Fred Mader

**FIELD TICKET & TREATMENT REPORT
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-16-15	3244	Owens #A-150AS-59	NE 9	18	22	Mi
CUSTOMER <u>Alta Vista Energy</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 128</u>			712 /	FreMad /		
CITY <u>Wellsville</u>			495 /	Har Bec /		
STATE <u>KS</u>			503 /	Dam Wha /		
ZIP CODE <u>66092</u>						

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 680 CASING SIZE & WEIGHT 2 1/8 EUE
 CASING DEPTH 667.06 DRILL PIPE Baffle in Tubing @ 635.82 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31.26 + Plug
 DISPLACEMENT 3.7342 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold Safety meeting. Establish pump rate. Mix + Pump
1/2 Gal HE 100 Polymer. Circulate to condition hole
Mix + Pump 100# Gel Flush. Mix + Pump SKs 50/50
for Mix Cement 2% Gel 5% Salt 5# Kal Seal/sk. Cement to
Surface. Flush pump + lines clean. Displace 2 1/2" Rubber
plug to casing. Baffle in casing. Pressure to 800#
PSI. Release pressure to set float valve.

TOS Drilling.

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085.00
5406	20 mi	MILEAGE	495	84.00
5402	667.06	Casing Footage		NIC
5407	Minimum	Ten Miles	503	368.00
5500C	1 1/2 hr	80 BBL Vac Truck	369	150.00
1124	88 SKS	50/50 Poz Mix Cement	1012.00	
118B	248#	Premium Gel	5456	
1111	184#	Granulated Salt	71.26	
1110A	440#	Kal Seal	202.40	
		Material	1340.22	
		less 30%	-402.22	
		Total		938.50
4402	1	2 1/2" Rubber Plug		29.50
1401	1/2 Gal	HE-100 Polymer		23.63
			3187.48	
		7.65%	SALES TAX	75.86
			ESTIMATED TOTAL	2754.49

Ravin 3737

Byron Miller

Completed

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.