

Miami County, KS
Well: Owen AI-60
Lease Owner: Altavista Energy

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

Commenced Spudding:
1/19/2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 11	Soil & Clay	11
22	Lime	33
8	Shale	41
6	Lime	47
40	Shale	87
14	Lime	101
8	Shale	109
30	Lime	139
9	Shale	148
23	Lime	171
5	Shale	176
2	Lime	178
3	Shale	181
6	Lime	187
22	Shale	209
38	Sand & Sandy Shale	247
41	Shale	288
6	Sand	294
26	Shale	320
8	Sandy Lime	328
17	Shale	345
8	Lime	353
3	Shale	356
16	Sand	372
10	Sandy Shale	382
22	Shale	404
6	Lime	410
13	Shale	423
3	Lime	426
14	Shale	440
9	Lime	449
18	Shale	467
2	Lime	469
4	Shale	473
8	Lime	481
4	Shale	485
13	Sand	498
22	Sandy Shale	520
30	Shale	550
18	Sandy Shale	568

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. AI-60

Farm Owen

KS Miami
(State) (County)

8 16 22
(Section) (Township) (Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Owens Farm: Miami County
 KS State; Well No. AI-60

Elevation 909

Commenced Spuding 1-19 20 15

Finished Drilling 1-20 20 15

Driller's Name Wesley Dillard

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Ryan Ward

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name TOS

8 18 22

(Section) (Township) (Range)

Distance from S line, 3895 ft.

Distance from E line, 2450 ft.

4 sacks Bonus well

9 hrs

5 7/8 bore hole

2 7/8 casing

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

~~7~~ 6 3/4" Set 20 6 3/4" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
636	15	Baffle			
667	60	Floater		2 7/8	
680	T.D.				

Thickness of Strata	Formation	Total Depth	Remarks
0-11	Soil - clay	11	
22	Lime	33	
8	Shale	41	
6	Lime	47	
40	Shale	87	red bed
14	Lime	101	
8	Shale	109	
30	Lime	139	
9	Shale	148	
23	Lime	171	
5	Shale	176	
2	Lime	178	
3	Shale	181	
6	Lime	187	Heitha
22	Shale	209	
38	Sand & sandy shale	247	no oil
41	Shale	288	
6	Sand	294	grey - no oil
26	shale	320	
8	sandy lime	328	odor - slight steel
17	Shale	345	
8	Lime	353	
3	Shale	356	
16	Sand	372	no oil
10	sandy shale	382	
22	Shale	404	
6	Lime	410	

410

Thickness of Strata	Formation	Total Depth	Remarks
13	shale	423	
3	lime	426	
14	shale	440	
9	lime	449	
18	shale	467	
2	lime	469	redbed
4	shale	473	
8	lime	481	
4	shale	485	
13	sand	498	
22	sandy shale	520	broken oil - OK show
30	shale	550	
18	sandy shale	568	
16	shale	584	
1	lime	585	
5	shale	590	
1	sand	591	no oil
1	sand	592	broken - some oil
14	sand	606	solid - good show
29	shale	635	
45	sand	680	water - TD

CASING MECHANICAL INTEGRITY TEST

DOCKET# E-21891

Disposal Well Enhanced Recovery:
 NW-OP Repressuring
 Flood
 Tertiary

NW1/4SW1/4, Sec 8, T 18 S,R 22 @W
3895 Feet from South Section Line
2450 Feet from East Section Line
 Lease Own Well # AI-60
 County Miami

Date injection started _____
 API #15- 121-30932

Operator: Altavista Energy, Inc
 Name & Address P.O. Box 128
Wellsville, KS 66092

Operator License# 34350
 Contact Person Doug Evans
 Phone 785-883-4057

Max. Auth. Injection Press _____ Psi; Max Inj. Rate _____ bbl/d;
 If Dual Completion - Injection above production _____ Injection below production _____

	Conductor	Surface	Production	Liner	Tubing
Size	_____	<u>7</u>	<u>2718</u>	_____	Size _____
Set at	_____	<u>20</u>	<u>667</u>	_____	Set at _____
Cement Top	_____	<u>0</u>	<u>0</u>	_____	Type _____
" Bottom	_____	<u>20</u>	<u>667</u>	_____	
DV/Perf.	_____	_____	_____	<u>680</u>	ft. depth _____
Packer type	_____	Size _____	_____	Set at _____	
Zone of injection	_____	ft. to ft. _____	_____	Perf. or open hole _____	

Type MIT: Pressure: Radioactive Tracer Survey: Temperature Survey:

F Time: Start 10 Min 20 Min 30 Min

I Pressures: 762 760 760 Set up 1 System Pres. during test _____

L _____ Set up 2 Annular Pres. during test _____

D _____ Set up 3 Fluid loss during test _____ bbls.

A Tested: Casing or Casing - Tubing Annulus

The bottom of the tested zone in shut in with Rubber Plug

Test Date 1-21-2015 Using Midwest Survey Company's Equipment _____

The operator hereby certifies that the zone between 0 feet and 667 feet

was the zone tested David [Signature] Signature Contractor Title

The results were Satisfactory Marginal _____ Not Satisfactory _____
 State Agent: Tanya C. Herman Title: Perit Witness: YES _____ NO

REMARKS: Well not perforated

Origin. Conservation Div.: KDHE/T: PF Dist. Office
 Computer Update Is there Chemical Sealant or a Mechanical Casing patch in the annular space **SCANNED**

GPS Lat _____ GPS Long _____ (If YES please describe in REMARKS) **JAN 23 2015** Form U-7



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#

803116

Invoice Date: 01/26/15

Terms: Net 30

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ALTAVISTA ENERGY INC

4595 K-33 HIGHWAY **P.O.Box128**
 WELLSVILLE KS 66092
 USA
 7858834057

Owen AI-60

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.000	1,085.0000	0.000	1,085.00
5406	Mileage Charge	25.000	4.2000	0.000	105.00
5402	Casing Footage	667.000	0.0000	0.000	0.00
5407	Min. Bulk Delivery Charge	1.000	368.0000	0.000	368.00
5502C	80 Vacuum Truck Cement	2.000	100.0000	0.000	200.00
1124	Poz Cement Mix	93.000	11.5000	30.000	748.65
1118B	Premium Gel / Bentonite	256.000	0.2200	30.000	39.42
1111	Sodium Chloride (Granulated Salt)	195.000	0.3900	30.000	53.24
1110A	Kol Seal (50# BAG)	465.000	0.4600	30.000	149.73
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 3,226.90

Discounted Amount 424.73

SubTotal After Discount 2,802.17

Amount Due 3,339.27 If paid after 02/25/15

Tax: 79.88

Total: 2,882.05



CONSOLIDATED
Oil Well Services, LLC

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

1888
1833

INVOICE # 803116

TICKET NUMBER 50763

LOCATION Ottawa, KS

FOREMAN Casper, Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1/20/15	3244	Owen # AI-600	NE 8	18	22	MI
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Atlanista Energy			729	Casper	Safety	Meeting
MAILING ADDRESS			6666	KeiCar		
PO Box 128			503	Trotter		
CITY	STATE	ZIP CODE	369	Mick Hea		
Wellsville	KS	66692				

JOB TYPE long string HOLE SIZE 5 7/8" HOLE DEPTH 1080' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 1067' DRILL PIPE _____ TUBING 6 1/2" - 636 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31'
 DISPLACEMENT 3.68 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.5 bbl/hr

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal Polymer, circulated well for 1 hr to condition hole, mixed & pumped 100# gal followed by 10 bbls fresh water, mixed & pumped 93' sls 50/50 Pozmix cement w/ 2% gel, 5% salt, + 5# Kolsal on sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TD w/ 3-68 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

[Handwritten signature]

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401		PUMP CHARGE		1085.00
5406	25 mi	MILEAGE		105.00
5402	1067'	Casing footage		
5407	minimum	ten mileage		368.00
5502c	2 hrs	80 vac		200.00
1124	93 sls	950 Pozmix cement	1069.50	
118B	256 #	Gel	56.32	
1111	195 #	Salt	76.05	
1110A	465 #	Kolsal	213.90	
		materials	1415.74	
		- 30%	424.73	
		subtotal		991.04
4402	1	2 1/2" rubber plug		29.50
1401	1/2 gal	Polymer		23.63
				3331.93
			7.65%	79.88
			SALES TAX	79.88
			ESTIMATED TOTAL	2882.05

Ravin 3737

[Handwritten signature]

ENTERED JAN 23 2015

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 f