

Douglas County, KS  
Well: Jim Bell AI-8  
Lease Owner: AltaVista

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

Commenced Spudding:  
1/16/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-29	Soil-Clay	29
2	Lime	31
147	Shale	178
8	Lime	186
3	Shale	189
20	Lime	209
7	Shale	216
7	Lime	223
6	Shale	229
62	Lime	291
20	Shale	311
52	Shale	363
20	Lime	383
1	Shale	384
3	Lime	387
17	Shale	404
6	Lime	410
16	Shale	426
8	Sand	434
19	Lime	453
16	Shale	469
24	Lime	493
7	Shale	500
25	Lime	525
4	Shale	529
4	Lime	533
4	Shale	537
6	Lime	543
175	Shale	718
6	Lime	724
15	Shale	739
6	Lime	745
17	Shale	762
5	Lime	767
9	Shale	776
4	Lime	780
6	Shale	786
1	Lime	787
23	Shale	810
1	Lime	811



# 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-8

Farm Jim Bell

KS Douglas  
(State) (County)

1 15 20  
(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
0-29	soil-clay	29	
2	Lime	31	
147	Shale	178	
8	Lime	186	
3	Shale	189	
20	Lime	209	
7	Shale	216	
7	Lime	223	
6	Shale	229	
62	Lime	291	
20	Shale	311	
52	Shale	363	sandy
20	Lime	383	
1	Shale	384	
3	Lime	387	
17	Shale	404	
6	Lime	410	
16	Shale	426	
8	sand	434	no O.I
19	Lime	453	
16	shale	469	
24	Lime	493	
7	shale	500	
25	Lime	525	
4	shale	529	
4	Lime	533	
4	shale	537	





**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 # 265484

Invoice Date: 01/21/2014 Terms: 0/0/30,n/30

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

J. BELL AI-8  
44991  
NW 1-15-20  
01-17-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	130.00	11.5000	1495.00
1118B	PREMIUM GEL / BENTONITE	418.00	.2200	91.96
1111	SODIUM CHLORIDE (GRANULA	251.00	.3900	97.89
1110A	KOL SEAL (50# BAG)	650.00	.4600	299.00
1401	HE 100 POLYMER	.50	47.2500	23.63
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

  

Description	Hours	Unit Price	Total
369 80 BBL VACUUM TRUCK (CEMENT)	2.50	90.00	225.00
503 MIN. BULK DELIVERY	1.00	368.00	368.00
666 CEMENT PUMP	1.00	1085.00	1085.00
666 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
666 CASING FOOTAGE	899.00	.00	.00

Parts:	2036.98	Freight:	.00	Tax:	145.65	AR	3944.63
Labor:	.00	Misc:	.00	Total:	3944.63		
Sublt:	.00	Supplies:	.00	Change:	.00		

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





CASING MECHANICAL INTEGRITY TEST

DOCKET# E-30,944

Disposal Well  Enhanced Recovery:  
NW-OP Repressuring   
Flood   
Tertiary

NE NW NW NW, Sec 1, T 15 (S) R 20 (E) W

5115 Feet from South Section Line

4785 Feet from East Section Line

Date injection started \_\_\_\_\_  
API #15- 045-22,043

Lease Jim Bell Well # A1-8  
County Douglas

Operator: Ciltawista Energy Inc  
Name & Address P.O. Box 128  
Wellsville, Ks 66092

Operator License# 34350  
Contact Person Dary 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 \_\_\_\_\_ 7" 2 7/8" \_\_\_\_\_ Size \_\_\_\_\_  
Set at \_\_\_\_\_ 45' 898.70 \_\_\_\_\_ Set at \_\_\_\_\_  
Cement Top \_\_\_\_\_ CIRC \_\_\_\_\_ Type \_\_\_\_\_  
" Bottom \_\_\_\_\_ 45' 898.70 \_\_\_\_\_  
DV/Perf. \_\_\_\_\_ TD (and plug back) 920 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 2:30  
E Pressures: 800 800 800 Set up 1 System Pres. during test \_\_\_\_\_

L 3:00  
D \_\_\_\_\_ Set up 2 Annular Pres. during test \_\_\_\_\_

D \_\_\_\_\_ Set up 3 Fluid loss during test \_\_\_\_\_ bbls.

A  
T Tested: Casing  or Casing - Tubing Annulus

The bottom of the tested zone in shut in with Pressure Test (Rubber Plug)

Test Date 12/20/14 Using Midwest Surveys Inc Company's Equipment

The operator hereby certifies that the zone between 0 feet and 898.70 feet

was the zone tested David Nelson Signature Contractor Title

The results were Satisfactory  Marginal \_\_\_\_\_ Not Satisfactory \_\_\_\_\_

State Agent: Taylor C. Herwan Title: PICT# Witness: YES \_\_\_\_\_ NO

REMARKS: Pressured well up to 800" Well Not Perfected

Organ. Conservation Div.:  KDHE/T: MF  Dist. Office  
 Computer Update Is there Chemical Sealant or a Mechanical Casing patch in the annular space? (Y/N)

GPS Lat \_\_\_\_\_ GPS Long \_\_\_\_\_ (If YES please describe in REMARKS) KCC Form U-7