

Douglas County, KS  
Well: Jim Bell AI-9  
Lease Owner: Altavista

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

Commenced Spudding:  
1/15/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-17	soil/clay	17
3	lime	250
147	shale	167
8	lime	175
3	shale	178
2	lime	180
3	shale	183
14	lime	197
8	shale	205
7	lime	212
6	shale	218
63	lime	281
18	sandy shale	299
53	shale	352
23	lime	375
18	shale	393
6	lime	399
17	shale	416
7	sand	423
19	lime	442
4	shale	446
2	lime	448
10	shale	458
24	lime	482
7	shale	489
25	lime	514
3	shale	517
5	lime	522
3	shale	525
6	lime	531
175	shale	706
6	lime	712
6	shale	718
4	lime	722
8	shale	730
9	lime	739
12	shale	751
3	lime	754
7	shale	761
4	lime	765



# Short Cuts

## TANK CAPACITY

BBLS. (42 gal.) equals  $D^2 \times 14xh$

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-9

Farm Jim Bell

KS Douglas  
(State) (County)

1 15 20  
(Section) (Township) (Range)

For Altitude 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
0-17	soil-clay	17	
3	Lime	20	
147	shale	167	
8	Lime	175	
3	shale	178	
2	Lime	180	
3	shale	183	
14	Lime	197	
8	shale	205	
7	Lime	212	
6	shale	218	
63	Lime	281	
18	sandy shale	299	
53	shale	352	
23	Lime	375	
18	shale	393	
6	Lime	399	
17	shale	416	
7	sand	423	no Oil
19	Lime	442	
4	shale	446	
2	Lime	448	
10	shale	458	
24	Lime	482	
7	shale	489	
25	Lime	514	
3	shale	517	

517

Thickness of Strata	Formation	Total Depth	Remarks
5	Lime	522	
3	Shale	525	
6	Lime	531	Hertha
175	shale	706	
6	Lime	712	
6	Shale	718	
4	Lime	722	
8	Shale	730	
9	Lime	739	
12	shale	751	
3	Lime	754	
7	Shale	761	
4	Lime	765	
9	Shale	774	
3	Lime	777	
14	Shale	791	
1	Lime	792	
6	shale	798	
1	Lime	799	
2	Sandy shale	801	
2	Lime	803	
5	shale	808	
2	sandy shale	810	no oil
14	sand	824	broken - good show
96	sandy shale	920	no oil - TR



**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 # 265483

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

Page 1

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

J. BELL AI-9  
44990  
NW 1-15-20  
01-16-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	127.00	11.5000	1460.50
1118B	PREMIUM GEL / BENTONITE	413.00	.2200	90.86
1110A	KOL SEAL (50# BAG)	635.00	.4600	292.10
1111	SODIUM CHLORIDE (GRANULA	245.00	.3900	95.55
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
1401	HE 100 POLYMER	.50	47.2500	23.63

Description	Hours	Unit Price	Total
369 80 BBL VACUUM TRUCK (CEMENT)	2.50	90.00	225.00
558 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	892.00	.00	.00

Parts: 1992.14 Freight: .00 Tax: 142.45 AR 3896.59  
 Labor: .00 Misc: .00 Total: 3896.59  
 Sublt: .00 Supplies: .00 Change: .00

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

BARTLESVILLE, OK 918/338-0808    EL DORADO, KS 316/322-7022    EUREKA, KS 620/583-7664    PONCA CITY, OK 580/762-2303    OAKLEY, KS 785/672-8822    OTTAWA, KS 785/242-4044    THAYER, KS 620/839-5269    GILLETTE, WY 307/686-4914    CUSHING, OK 918/225-2650





CASING MECHANICAL INTEGRITY TEST

DOCKET# E-30,944

Disposal Well  Enhanced Recovery:  
 Repressuring   
 Flood   
 Tertiary

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

4785 Feet from South Section Line  
5115 Feet from East Section Line

Date injection started \_\_\_\_\_  
 API #15- 045-22,027

Lease Jim Bell Well # A1-9  
 County Douglas

Operator: Citista 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 \_\_\_\_\_

Size	Conductor	Surface	Production	Liner	Size	Tubing
Set at		<u>7"</u>	<u>2 7/8"</u>		Set at	
Cement Top		<u>45'</u>	<u>892'</u>		Type	
" Bottom		<u>Circ</u>	<u>Circ</u>			
DV/Perf.		<u>45'</u>	<u>892</u>			
Packer type		TD (and plug back) <u>920</u>			ft. depth	
Zone of injection		Size _____		Set at _____		
		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 3:10  
 E Pressures: 780 770 770 Set up 1 System Pres. during test \_\_\_\_\_  
 L \_\_\_\_\_ Set up 2 Annular Pres. during test \_\_\_\_\_  
 D \_\_\_\_\_ Set up 3 Fluid loss during test \_\_\_\_\_ bbls.

T Tested: Casing  or Casing - Tubing Annulus

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

Test Date 1/20/2014 Using Midwest Surveys Inc Company's Equipment

The operator hereby certifies that the zone between 0 feet and 892 feet

was the zone tested David Nelson Signature Contractor Title

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

State Agent: Taylor C. Hermon Title: PEET# Witness: YES \_\_\_\_\_ NO

REMARKS: Pressured well up to 780# well not perfect yet

Origin. Conservation Div.:  KDHE/T:  Dist. Office JAN 23 2014  
 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