

Douglas County, KS  
Well: Jim Bill A12  
Lease Owner: Altavista

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

Commenced Spudding:  
12/11/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-19	soil-clay	19
4	lime	23
138	shale	161
6	lime	167
3	shale	170
2	lime	172
3	shale	175
14	lime	189
8	shale	197
8	lime	205
4	shale	209
29	lime	238
18	shale	256
19	lime	275
20	shale	295
53	shale	348
23	lime	371
18	shale	389
7	lime	396
15	shale	411
10	sand	421
19*	lime	440
3	shale	443
3	lime	446
10	shale	456
25	lime	481
7	shale	488
25	lime	513
4	shale	517
4	lime	521
4	shale	525
7	lime	532
161	shale	693
8	lime	701
5	shale	706
5	lime	711
7	shale	718
8	lime	726
13	shale	739
4	lime	743



# 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. A-12

Farm Jim Bell

KS Douglas  
(State) (County)

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

For Altavista Energy  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Sim Bell Farm: Douglas County

KS State; Well No. A-12

Elevation 1041

Commenced Spuding Dec 11 2013

Finished Drilling Dec 12 2013

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Greg Perry

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Contractor's Name TOS

1 15 20

(Section) (Township) (Range)

Distance from S line, 4455 ft.

Distance from E line, 4455 ft.

7 sacks

8 hrs

**CASING AND TUBING RECORD**

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_

8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_

7 1/4" Set 45 \_\_\_\_\_ 6 1/4" Pulled \_\_\_\_\_

4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_

2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

**CASING AND TUBING MEASUREMENTS**

Feet	In.	Feet	In.	Feet	In.
795.	95	Seat nipple			
827.	55	Baffle			
859.	05	Float			27/8

Thickness of Strata	Formation	Total Depth	Remarks
0-19	Soil-clay	19	
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6	Lime	167	
3	Shale	170	
2	Lime	172	
3	Shale	175	
14	Lime	189	
8	Shale	197	
8	Lime	205	
4	Shale	209	
29	Lime	238	
18	Shale	256	
19	Lime	275	
20	Shale	295	Some sand - no oil
53	Shale	348	
23	Lime	371	
18	Shale	389	
7	Lime	396	
15	Shale	411	
10	Sand	421	no oil
19	Lime	440	
3	Shale	443	
3	Lime	446	
10	Shale	456	
25	Lime	481	
7	Shale	488	

488

Thickness of Strata	Formation	Total Depth	Remarks
25	Lime	513	
4	Shale	517	
4	Lime	521	
4	Shale	525	
7	Lime	532	
161	Shale	693	Heitza
8	Lime	701	
5	Shale	706	
5	Lime	711	
7	Shale	718	
8	Lime	726	
13	Shale	739	
4	Lime	743	
8	Shale	751	
7	Lime	758	
2	Shale	760	odor - no show
3	Lime	763	
21	Shale	784	
4	Lime	788	
10	Shale	798	
1	Sand	799	broken - oil
10	Sand	809	mostly solid - ok show
91	Sandy shale	900	TD



**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 # 264756

Invoice Date: 12/16/2013 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

JIM BELL #12  
44942  
SE 11-15-20  
12-12-2013  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	126.00	11.5000	1449.00
1118B	PREMIUM GEL / BENTONITE	312.00	.2200	68.64
1111	SODIUM CHLORIDE (GRANULA	244.00	.3900	95.16
1110A	KOL SEAL (50# BAG)	630.00	.4600	289.80
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Description	Hours	Unit Price	Total
370 80 BBL VACUUM TRUCK (CEMENT)	1.50	90.00	135.00
495 CEMENT PUMP	1.00	1085.00	1085.00
495 EQUIPMENT MILEAGE (ONE WAY)	25.00	4.20	105.00
495 CASING FOOTAGE	859.00	.00	.00
510 MIN. BULK DELIVERY	1.00	368.00	368.00

Parts: 1932.10 Freight: .00 Tax: 138.14 AR 3763.24  
Labor: .00 Misc: .00 Total: 3763.24  
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



**CONSOLIDATED**  
Oil Well Services, LLC

264756

TICKET NUMBER 44942

LOCATION Ottawa KS

FOREMAN Fred Maden

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

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12.12.13	3255	Jim Bell # 12	SE 11	15	20	DG
CUSTOMER <u>Altavista Energy</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 128</u>			<u>712</u>	<u>Fred Mad</u>		
CITY <u>Wellsville</u>			<u>495</u>	<u>Har Ber</u>		
STATE <u>KS</u>			<u>370</u>	<u>Ki Car</u>		
ZIP CODE				<u>Set Tue</u>		

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 900 CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 659 DRILL PIPE Baffle in TUBING @ 827 OTHER \_\_\_\_\_  
 SLURRY WEIGHT 8.8 BL SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 32" x Plug  
 DISPLACEMENT 4.5 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Hold crew mixing safety. Establish pump rate. Mix + Pump 100# Gel Flush. Mix + Pump 126 sks 50/50 Por Mix Cement 22 Gal 5% Salt 5# Hal Seal / sk. Cement to Surface. Flush pump + lines clean. Displace 2 1/2" Rubber Plug to baffle in casing. Pressure to 800 # PSI. Release pressure to set float valve. Shut in casing.

TOS Drilling: Wasley Dollard

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085.00 ✓
5406	25 mi	MILEAGE	495	105.00 ✓
5402	659	Casing footage		410 ✓
5407	Minimum	Ton Miles	510	368.10 ✓
5502C	1 1/2 hr	80 BBL Vac Truck	370	135.00 ✓
1124	126 sks	50/50 Por Mix Cement		1449.00 ✓
1118B	312 #	Premium Gel		68.64 ✓
1111	244 #	Granulated Salt		95.16 ✓
1110A	630 #	Hal Seal		289.80 ✓
4402	1	2 1/2" Rubber Plug		29.50 ✓
			7.45%	SALES TAX
				ESTIMATED TOTAL
				138.14
				376.24 ✓

**completed**

Ravin 3737 AUTHORIZATION Bryan Miller 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.