

Douglas County, KS
 Well: Jim Bell A-16
 Lease Owner: Altavista

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

Commenced Spudding:
 1/20/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-15	soil/clay	15
28	shale	43
3	lime	46
9	shale	55
7	lime	62
131	shale	193
3	lime	196
12	shale	208
15	lime	223
7	shale	231
7	lime	238
6	shale	244
59	lime	303
23	sandy shale	326
50	shale	376
22	lime	398
18	shale	416
7	lime	423
17	shale	440
7	sandy shale	447
19	lime	466
16	shale	482
24	lime	506
6	shale	512
25	lime	537
5	shale	542
3	lime	545
4	shale	549
5	lime	554
177	shale	731
6	lime	737
19	shale	756
11	lime	767
11	shale	778
4	lime	782
8	shale	790
5	lime	795
6	shale	801
2	lime	803
13	shale	816

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-16

Farm Jim Bell

KS Douglas
(State) (County)

36 14 20
(Section) (Township) (Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Jim Bell Farm: Douglas County
KS State; Well No. A-16

Elevation 1071

Commenced Spuding Jan 20 2014

Finished Drilling Jan 22 2014

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

36 14 20

(Section) (Township) (Range)

Distance from S line, 825 ft.

Distance from E line, 4785 ft.

8 sacks

10 hrs

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
~~7~~ 7" Set 44 6 1/2" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
838-		Set nipple			
871-		Baffle			
903.8		Float		2 7/8	

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23	sandy shale	326	
50	Shale	376	
22	Lime	398	
16	Shale	416	
7	Lime	423	
17	Shale	440	
7	sand	447	no Oil
19	Lime	466	
16	Shale	482	
24	Lime	506	
6	Shale	512	
25	Lime	537	
5	Shale	542	
3	Lime	545	

545

Thickness of Strata	Formation	Total Depth	Remarks
4	shale	549	
5	Lime	554	
177	shale	731	Heithq
6	Lime	737	
19	shale	756	
11	Lime	767	
11	shale	778	
4	Lime	782	
8	shale	790	
5	Lime	795	
6	shale	801	
2	Lime	803	
13	shale	816	
1	Lime	817	redbed
7	shale	824	
2	Lime	826	
2	shale	828	
1	Lime	829	
6	shale	835	
3	sandy shale	838	
1	sand	839	
per F 6	sand	845	broken color - no oil
2	sand	847	broken - good oil top 4' burst no oil
73	sandy shale	920	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 # 265585

Invoice Date: 01/23/2014 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 A-16
44993
SW 36-14-20
01-22-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	126.00	11.5000	1449.00
1118B	PREMIUM GEL / BENTONITE	412.00	.2200	90.64
1111	SODIUM CHLORIDE (GRANULA	243.00	.3900	94.77
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
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	903.00	.00	.00
675	80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00

Parts: 1953.71 Freight: .00 Tax: 139.69 AR 3810.40
Labor: .00 Misc: .00 Total: 3810.40
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

265585

TICKET NUMBER 44993

LOCATION Ottawa, KS

FOREMAN Casady Kennedy

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
11/22/14	3244	J. Bell # A-16	SW 36	14	20	DG
CUSTOMER <u>Atavista Energy</u>						
MAILING ADDRESS <u>PO Box 128</u>						
CITY <u>Wellsville</u>		STATE <u>KS</u>	ZIP CODE <u>66092</u>			

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Cas Keen	✓ Safety	Meeting
1616	Gar Moo	✓	
558	Kei Car	✓	
675	Kei Det	✓	

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 920' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 903' DRILL PIPE _____ TUBING 8 7/8" OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32'
 DISPLACEMENT 5.04 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 200# Premium Gel followed by 10 bbls fresh water, mixed + pumped 126 stks 5% Pozumix cement w/ 2% gel, 5% salt, + 5# Kolseal per sk, cement to surface, flushed pump ~~clean~~ clean, pumped 2 1/2" rubber plug to baffle w/ 5.04 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	1	PUMP CHARGE		1085.00 ✓
5406	20 mi	MILEAGE		84.00 ✓
5462	903'	casing footage		— ✓
5407	minimum	ton mileage		368.00 ✓
5502C	2 hrs	80 vac		180.00 ✓
1124	126 stks	5% Pozumix cement		1449.00 ✓
1118B	412 #	Premium Gel		90.60 ✓
1111	243 #	Salt		94.77 ✓
11104	630 #	Kolseal		289.80 ✓
4402	1	2 1/2" rubber plug		29.50 ✓
				7.15%
			SALES TAX	139.69 ✓
			ESTIMATED TOTAL	3810.40

completed

Revin 3737

AUTHORIZATION Bryan Miller TITLE _____ DATE 11/22/14

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