

Douglas County, KS
Well: Jim Bell A-13
Lease Owner: Altavista

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

Commenced Spudding:
1/08/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-29	soil/clay	29
5	shale	34
2	lime	36
8	shale	44
5	lime	49
133	shale	182
8	lime	190
10	shale	200
13	lime	213
7	shale	220
8	lime	228
5	shale	233
61	lime	294
16	shale	310
56	shale	366
23	lime	389
17	shale	406
8	lime	414
15	shale	429
8	sand	437
20	lime	457
16	shale	473
17	lime	490
1	shale	491
5	lime	496
7	shale	503
24	lime	527
4	shale	531
4	lime	535
4	shale	539
6	lime	545
174	shale	719
6	lime	725
18	shale	743
10	lime	753
12	shale	765
3	lime	768
11	shale	779
3	lime	782
4	shale	786

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-13

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

Thickness of Strata	Formation	Total Depth	Remarks
0-29	soil-clay	29	sandy
5	shale	34	
2	Lime	36	
8	shale	44	
5	Lime	49	
133	Shale	182	
8	Lime	190	
10	shale	200	
13	Lime	213	
7	Shale	220	
8	Lime	228	
5	shale	233	
61	Lime	294	shells
16	shale	310	some sand - no oil
56	Shale	366	
23	Lime	389	
17	Shale	406	
8	Lime	414	
15	Shale	429	
8	sand	437	no oil
20	Lime	457	
16	Shale	473	
17	Lime	490	
1	shale	491	
5	Lime	496	
7	Shale	503	
24	Lime	527	

527

Thickness of Strata	Formation	Total Depth	Remarks
4	shale	531	
4	Lime	535	
4	shale	539	
6	Lime	545	
174	shale	719	Heithq
6	Lime	725	
18	shale	743	
10	Lime	753	
12	shale	765	
3	Lime	768	
11	shale	779	
3	Lime	782	
4	shale	786	
2	Lime	788	
24	shale	812	
1	Lime	813	
4	shale	817	
2	sandy shale	819	
2	sand & sandy shale	821	broken Oil - poor show
1	sand	822	broken - 50% oil
9	sand	831	mostly solid - good show
3	sand & sandy shale	834	broken - very little oil
66	sandy shale	900	no oil - 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 # 265221

Invoice Date: 01/13/2014 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

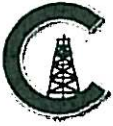
J. BELL A-13
44981
SW 36-14-20
01-09-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	114.00	11.5000	1311.00
1118B	PREMIUM GEL / BENTONITE	292.00	.2200	64.24
1111	SODIUM CHLORIDE (GRANULA	220.00	.3900	85.80
1110A	KOL SEAL (50# BAG)	570.00	.4600	262.20
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Description	Hours	Unit Price	Total
368 CEMENT PUMP	1.00	1085.00	1085.00
368 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
368 CASING FOOTAGE	883.00	.00	.00
370 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00
558 MIN. BULK DELIVERY	1.00	368.00	368.00

Parts: 1752.74 Freight: .00 Tax: 125.32 AR 3595.06
Labor: .00 Misc: .00 Total: 3595.06
Sublt: .00 Supplies: .00 Change: .00

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

265221

TICKET NUMBER 44981

LOCATION Ottawa

FOREMAN Alan 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
1-9-14	3274	J. Bell A-13	SW 34	14	20	OG
CUSTOMER						
Altavista Energy						
MAILING ADDRESS						
P.O. Box 128						
CITY		STATE	ZIP CODE			
Wellsville		KS	66092			
TRUCK #		DRIVER		TRUCK #		DRIVER
330		Ala Mad		Safety		Meet
368		Der Mas				
370		Kei Car				
558		Mat Coc				

JOB TYPE long string HOLE SIZE 3 1/8 HOLE DEPTH 900 CASING SIZE & WEIGHT 2 7/8
 CASING DEPTH 883 DRILL PIPE _____ TUBING _____ OTHER BF 852
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING YES
 DISPLACEMENT 5 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Held meeting, Established rate down casing. Mixed & pumped 100# gel followed by 114 sk 50150 cement plus 270 gel, 5% salt, 5# Kolseal per sack. Circulated cement. Flushed pump. Pumped plug to baffle. Well held 800 PSI. Set float. Closed valve.

TDS, WRS

Alan Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL	
5401	1	PUMP CHARGE	368	1085.00 ✓	
5406	20	MILEAGE	368	84.00 ✓	
5402	883	casing footage	368	— ✓	
5407	mi	ten miles	538	368.00 ✓	
5502 C	2	80 vac	370	180.00 ✓	
1124	114	50150 cement		1311.00 ✓	
1118B	292 #	gel		64.24 ✓	
1111	220 #	salt		85.80 ✓	
1110A	570 #	Kolseal		262.20 ✓	
4402	1	2 1/2 plug		29.50 ✓	
				SALES TAX	125.32 ✓
				ESTIMATED TOTAL	3595.06 ✓

completed

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.