

Douglas County, KS
 Well: Jim Bell A-14
 Lease Owner: AltaVista

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

Commenced Spudding:
 1/17/2014

WELL LOG

| Thickness of Strata | Formation | Total Depth |
|---------------------|-------------|-------------|
| 0-24 | Soil-Clay | 24 |
| 24 | Shale | 48 |
| 2 | Lime | 50 |
| 9 | Shale | 59 |
| 4 | Lime | 63 |
| 133 | Shale | 196 |
| 8 | Lime | 204 |
| 3 | Shale | 207 |
| 3 | Lime | 210 |
| 2 | Shale | 212 |
| 14 | Lime | 226 |
| 8 | Shale | 234 |
| 7 | Lime | 241 |
| 6 | Shale | 247 |
| 58 | Lime | 305 |
| 20 | Sandy Shale | 325 |
| 51 | Shale | 376 |
| 22 | Lime | 398 |
| 14 | Shale | 412 |
| 12 | Lime | 424 |
| 15 | Shale | 439 |
| 6 | Sand | 445 |
| 22 | Lime | 467 |
| 15 | Shale | 482 |
| 24 | Lime | 506 |
| 6 | Shale | 512 |
| 25 | Lime | 537 |
| 5 | Shale | 542 |
| 4 | Lime | 546 |
| 3 | Shale | 549 |
| 6 | Lime | 555 |
| 179 | Shale | 734 |
| 3 | Lime | 737 |
| 5 | Shale | 742 |
| 7 | Lime | 749 |
| 7 | Shale | 756 |
| 9 | Lime | 765 |
| 13 | Shale | 778 |
| 3 | Lime | 781 |
| 7 | Shale | 788 |

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-14

Farm Jim Bell

KS Douglas
(State) (County)

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

For Altamira 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 |
|---------------------|-------------|-------------|---------|
| 0-24 | soil-clay | 24 | |
| 24 | Shale | 48 | |
| 2 | Lime | 50 | |
| 9 | Shale | 59 | |
| 4 | Lime | 63 | |
| 133 | Shale | 196 | |
| 8 | Lime | 204 | |
| 3 | Shale | 207 | |
| 3 | Lime | 210 | |
| 2 | Shale | 212 | |
| 14 | Lime | 226 | |
| 8 | Shale | 234 | |
| 7 | Lime | 241 | |
| 6 | Shale | 247 | |
| 58 | Lime | 305 | |
| 20 | sandy shale | 325 | |
| 51 | shale | 376 | |
| 22 | Lime | 398 | |
| 14 | Shale | 412 | |
| 12 | Lime | 424 | |
| 15 | shale | 439 | |
| 6 | Sand | 445 | |
| 22 | Lime | 467 | no Oil |
| 15 | Shale | 482 | |
| 24 | Lime | 506 | |
| 6 | Shale | 512 | |
| 25 | Lime | 537 | |

537

| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|-----------------|-------------|----------------------------|
| 5 | Shale | 542 | |
| 4 | Lime | 546 | |
| 3 | Shale | 549 | |
| 6 | Lime | 555 | |
| 179 | Shale | 734 | Heath |
| 3 | Lime | 737 | |
| 5 | Shale | 742 | |
| 7 | Lime | 749 | |
| 7 | Shale | 756 | |
| 9 | Lime | 765 | |
| 13 | Shale | 778 | |
| 3 | Lime | 781 | |
| 7 | Shale | 788 | |
| 3 | Sandy Lime | 791 | |
| 3 | Lime | 794 | |
| 9 | Shale | 803 | Lime |
| 10 | Shale & red bed | 813 | |
| 10 | Lime | 823 | |
| 1 | Shale | 824 | |
| 2 | Lime | 826 | |
| 4 | Shale | 830 | |
| 1 | sandy shale | 831 | |
| 1 | sandy shale | 832 | odor |
| 6 | snell | 838 | gas - brown sand - no oil |
| 6 | snell | 844 | broken - oil - slight show |
| 8 | sandy shale | 852 | |
| 40 | Shale | 892 | |

S-12

| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|-------------|-------------|----------------------------------|
| 5 | sandy shale | 897 | |
| 2 | shale | 899 | |
| 4 | sand | 903 | - no oil |
| 21 | sandy shale | 924 | |
| 2 | lime | 926 | |
| 4 | shale | 930 | |
| 5 | sand | 935 | also - slight sh show |
| 17 | shale | 952 | |
| 4 | sand | 956 | slight show |
| 10 | sand | 966 | grey - no oil |
| 14 | sandy shale | 980 | T.D. |
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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 # 265515

Invoice Date: 01/22/2014 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 A-14
44992
SW 36-14-20
01-20-2014
KS

| Part Number | Description | Qty | Unit Price | Total |
|-------------|------------------------------|--------|------------|---------|
| 1124 | 50/50 POZ CEMENT MIX | 129.00 | 11.5000 | 1483.50 |
| 1118B | PREMIUM GEL / BENTONITE | 417.00 | .2200 | 91.74 |
| 1111 | SODIUM CHLORIDE (GRANULA | 249.00 | .3900 | 97.11 |
| 1110A | KOL SEAL (50# BAG) | 645.00 | .4600 | 296.70 |
| 4402 | 2 1/2" RUBBER PLUG | 1.00 | 29.5000 | 29.50 |
| Description | | Hours | Unit Price | Total |
| 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 |
| 675 | 80 BBL VACUUM TRUCK (CEMENT) | 3.50 | 90.00 | 315.00 |

| | | | | | | | |
|--------|---------|-----------|-----|---------|---------|----|---------|
| Parts: | 1998.55 | Freight: | .00 | Tax: | 142.89 | AR | 3993.44 |
| Labor: | .00 | Misc: | .00 | Total: | 3993.44 | | |
| Sublt: | .00 | Supplies: | .00 | Change: | .00 | | |

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

265515

TICKET NUMBER 44992
LOCATION Ottawa, KS
FOREMAN Casey 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 |
|--------------------------------------|-------------------------|---|--|----------|-------|--------|
| 1/20/14 | 3244 | J. Bell # A-14 | SW 36 | 14 | 20 | DG |
| CUSTOMER <u>Attavista Energy</u> | | TRUCK # DRIVER TRUCK # DRIVER | | | | |
| MAILING ADDRESS <u>PO Box 128</u> | | <u>729 Cas Ken ✓ Safety Meeting</u> | | | | |
| CITY <u>Wellsville</u> | | <u>660 Gar Moo ✓</u> | | | | |
| STATE <u>KS</u> | | <u>563 Mat Coc ✓</u> | | | | |
| ZIP CODE <u>66092</u> | | <u>675 Kei Det ✓</u> | | | | |
| JOB TYPE <u>long string</u> | HOLE SIZE <u>5 7/8"</u> | HOLE DEPTH <u>920'</u> | CASING SIZE & WEIGHT <u>2 7/8" EUE</u> | | | |
| CASING DEPTH <u>899'</u> | DRILL PIPE | TUBING <u>baffle - 868'</u> | | | | |
| SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING | | | |
| DISPLACEMENT <u>5.02 bbls</u> | DISPLACEMENT PSI | MIX PSI | RATE <u>4.5 bpm</u> | | | |

REMARKS: held safety meeting, established circulation, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 129 sks 50/50 Pozmix cement w/ 5% gel, 5% salt, & 5# Kolseal for sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing w/ 5.02 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

BR

| 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 ✓ |
| 5402 | 899' | casing footage | | ✓ |
| 5407 | minimum | ton mileage | | 368.00 ✓ |
| 5502c | 3.5 hrs | 80 Vac | | 315.00 ✓ |
| 1124 | 129 sks | 50/50 Pozmix cement | | 1483.50 ✓ |
| 1118B | 417 # | Premium Gel | | 91.74 ✓ |
| 1111 | 249 # | Salt | | 97.11 ✓ |
| 1110A | 645 # | Kolseal | | 296.70 ✓ |
| 4402 | 1 | 2 1/2" rubber plug | | 29.50 ✓ |
| | | | 7.15% | SALES TAX |
| | | | | ESTIMATED TOTAL |
| | | | | 142.89 ✓ |
| | | | | 3993.44 ✓ |

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.