

Douglas County, KS
Well: Johnson AI-42
Lease Owner: Altavista

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

Commenced Spudding:
02/25/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-15	soil-clay	15
128	shale	143
6	lime	149
8	shale	157
14	lime	171
8	shale	179
8	lime	187
6	shale	193
25	lime	218
22	shale	240
18	lime	258
20	sandy shale	278
56	shale	334
23	lime	357
17	shale	374
7	lime	381
16	shale	397
9	sand	406
21	lime	427
17	shale	444
27	lime	471
6	shale	477
25	lime	502
4	shale	506
4	lime	510
3	shale	513
7	lime	520
21	shale	541
149	sandy shale	690
7	lime	697
23	shale	720
7	lime	727
14	shale	741
4	lime	745
7	shale	752
9	lime	761
5	shale	766
2	lime	768
21	shale	789
6	lime	795

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. AI-42

Farm Johnson

KS Douglas
(State) (County)

1 15 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
0-15	soil - clay	15	
128	shale	143	
6	lime	149	
8	shale	157	
14	lime	171	
8	shale	179	
8	lime	187	
6	shale	193	
25	lime	218	
22	shale	240	
18	lime	258	some sand - no oil
20	sandy shale	278	
56	shale	334	
23	lime	357	
17	shale	374	
7	lime	381	
16	shale	397	
9	sand	406	no oil
21	lime	427	
17 17	shale	444	
27	lime	471	
6	shale	477	
25	lime	502	
4	shale	506	
4	lime	510	
3	shale	513	
7	lime	520	Heilthq

520

Thickness of Strata	Formation	Total Depth	Remarks
21	Shale	541	
149	sandy shale	690	
7	Lime	697	
23	Shale	720	
7	Lime	727	
14	Shale	741	
4	Lime	745	
7	Shale	752	
9	Lime	761	
5	Shale	766	
2	Lime	768	
21	shale	789	redbed
6	Lime	795	
12	Shale	807	
1	sand	808	odor - no show
14	sand	822	mostly solid - good show
98	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 # 266286

Invoice Date: 02/28/2014 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

JOHNSON AI-42
42550
NW 1-15-20
02-27-2014
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	271.00	.3900	105.69
1110A	KOL SEAL (50# BAG)	645.00	.4600	296.70
1401	HE 100 POLYMER	.50	47.2500	23.63
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Description	Hours	Unit Price	Total
548 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	889.00	.00	.00
675 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00

Parts: 2030.76 Freight: .00 Tax: 145.20 AR 3892.96
 Labor: .00 Misc: .00 Total: 3892.96
 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

266286

TICKET NUMBER 42550

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
2/27/14	3244	Johnson # AI-42	NW1	15	20	DG
CUSTOMER Altavista Energy						
MAILING ADDRESS PO Box 128						
CITY Wellsville		STATE KS	ZIP CODE 66092			
		TRUCK #	DRIVER	TRUCK #	DRIVER	
		729	Cashen	✓	Safety Meeting	
		1066	Garlop	✓		
		548	Mickhaa	✓		
		675	Kei Det	✓		

JOB TYPE Longstring HOLE SIZE 5 7/8" HOLE DEPTH 920' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 889' DRILL PIPE _____ TUBING 8 5/8" - baffle OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 32'
 DISPLACEMENT 4.96 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 1/2 gal Polymer, circulated well for 1 hr to condition hole, mixed + pumped 200# Premium Gel followed by 10 bbls fresh water, mixed + pumped 129 sks 50/50 Pozumix cement w/ 2% gel, 5% salt, + 5# Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.96 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 ✓
5402	889'	casing footage		
5407	minimum	ton mileage		368.00 ✓
5502C	2 hrs	80 Uac		180.00 ✓
1124	129 sks	50/50 Pozumix cement		1483.50 ✓
1118B	417 #	Premium Gel		91.74 ✓
1111	271 #	Salt		105.69 ✓
1110A	645 #	Kalseal		296.70 ✓
1401	1/2 gal	Polymer		23.63 ✓
4402	1	2 1/2" rubber plug		29.50 ✓
			7.15%	SALES TAX
				ESTIMATED
				TOTAL
				145.20 ✓
				3892.96 ✓

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