

Douglas County, KS
Well: Johnson A-51
Lease Owner: Altavista

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

Commenced Spudding:
02/13/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-8	soil/clay	8
2	lime	10
8	shale	18
5	lime	23
136	shale	159
7	lime	166
7	shale	173
15	lime	188
8	shale	196
7	lime	203
5	shale	208
27	lime	235
22	sandy shale	257
19	lime	276
19	sand and sandy shale	295
56	shale	351
22	lime	373
17	shale	390
9	lime	399
18	shale	417
7	sand	424
19	lime	443
16	shale	459
24	lime	483
9	shale	492
25	lime	517
5	shale	522
4	lime	526
4	shale	530
6	lime	536
54	shale	590
15	sand	605
102	shale	707
6	lime	713
18	shale	731
6	lime	737
16	shale	753
3	lime	756
10	shale	766
3	lime	769

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-51

Farm Johnson

KS Douglas
 (State) (County)

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

For Alhava 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
0-8	Soil-clay	8	
2	Lime	10	
8	Shale	18	
5	Lime	23	
136	Shale	159	
7	Lime	166	
7	Shale	173	
15	Lime	188	
8	Shale	196	
7	Lime	203	
5	Shale	208	
27	Lime	235	
22	sandy shale	257	shells
19	Lime	276	
19	sand & sandy shale	295	
56	Shale	351	no oil
22	Lime	373	
17	Shale	390	
9	Lime	399	
18	Shale	417	
7	Sand	424	no oil
19	Lime	443	
16	Shale	459	
24	Lime	483	
9	Shale	492	
25	Lime	517	
5	Shale	522	

522

Thickness of Strata	Formation	Total Depth	Remarks
4	Lime	526	
4	Shale	530	
6	Lime	536	Heitha
54	Shale	590	some sandy shale
15	sand	605	no Oil
102	Shale	707	
6	Lime	713	
18	Shale	731	
6	Lime	737	
16	Shale	753	
3	Lime	756	
10	Shale	766	
3	Lime	769	
11	Shale	780	
2	Lime	782	
20	Shale	802	redbed
3	Lime	805	
2	Shale	807	
1	Lime	808	
9	Shale	817	
2	sandy shale	819	no Oil
1	sand	820	broken - 50% Oil
13	sand	833	mostly solid - good show
67	sandy shale	900	no Oil



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 # 265996

Invoice Date: 02/18/2014 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 A-51
42640
NW 1-15-20
02-14-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	132.00	11.5000	1518.00
1118B	PREMIUM GEL / BENTONITE	422.00	.2200	92.84
1111	SODIUM CHLORIDE (GRANULA	277.00	.3900	108.03
1110A	KOL SEAL (50# BAG)	660.00	.4600	303.60
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	880.00	.00	.00
675 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00

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Parts: 2051.97 Freight: .00 Tax: 146.72 AR 3915.69
Labor: .00 Misc: .00 Total: 3915.69
Sublt: .00 Supplies: .00 Change: .00
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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

