

Douglas County, KS
Well: Jim Bell AI-11
Lease Owner: AltaVista

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

Commenced Spudding:
1/9/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-7	Soil-Clay	7
3	Lime	10
8	Shale	18
4	Lime	22
136	Shale	158
7	Lime	165
3	Shale	168
2	Lime	170
3	Shale	173
14	Lime	187
8	Shale	195
7	Lime	202
5	Shale	207
34	Lime	241
11	Shale	252
18	Lime	270
20	Shale	290
54	Shale	344
23	Lime	367
17	Shale	384
7	Lime	391
16	Shale	407
8	Sand	415
20	Lime	435
16	Shale	451
24	Lime	475
8	Shale	483
24	Lime	507
4	Shale	511
4	Lime	515
3	Shale	518
7	Lime	525
172	Shale	697
5	Lime	702
6	Shale	708
4	Lime	712
9	Shale	721
8	Lime	729
15	Shale	744
3	Lime	747

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 $SPM \times d$

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

* Need these to figure belt length

$$\text{TO FIGURE AMPS: } \frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$$

746 WATTS equal 1 HP

Log Book

Well No. AI-11

Farm Jim Bell

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

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8	Shale	195	
7	Lime	202	
5	Shale	207	
34	Lime	241	shells
11	Shale	252	
18	Lime	270	
20	Shale	290	some sand - no Oil
54	Shale	344	
23	Lime	367	
17	Shale	384	
7	Lime	391	
16	Shale	407	
8	Sand	415	no Oil
20	Lime	435	
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483

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9	Shale	721	
8	Lime	729	
15	Shale	744	
3	Lime	747	
11	Shale	758	
7	Lime	765	
20	Shale	785	
4	Lime	789	
1	Shale	790	
1	Lime	791	
5	Shale	796	
1	Shale & Lime	797	
1	sandy shale	798	
15	sand	813	broken - good show
87	sandy shale	900	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 # 265277

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 AI-11
44982
NW 1-14-20
01-10-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	108.00	11.5000	1242.00
1118B	PREMIUM GEL / BENTONITE	281.00	.2200	61.82
1111	SODIUM CHLORIDE (GRANULA	209.00	.3900	81.51
1110A	KOL SEAL (50# BAG)	540.00	.4600	248.40
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
368 CEMENT PUMP	1.00	1085.00	1085.00
368 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
368 CASING FOOTAGE	887.00	.00	.00
369 80 BBL VACUUM TRUCK (CEMENT)	2.50	90.00	225.00
558 MIN. BULK, DELIVERY	1.00	368.00	368.00

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Parts: 1686.86 Freight: .00 Tax: 120.61 AR 3569.47
Labor: .00 Misc: .00 Total: 3569.47
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

CASING MECHANICAL INTEGRITY TEST

DOCKET# E-30,944

Disposal Well Enhanced Recovery:
 NW-OP Repressuring
 Flood
 Tertiary

NE-SW-NW-NW, Sec 1, T 15 (S/R) 20 (EW)
4455 Feet from South Section Line
4785 Feet from East Section Line

Date injection started _____
 API #15- 045-22.029

Lease Jim Bell Well # AI-11
 County Douglas

Operator: Giltwasta Energy Inc
 Name & Address P.O. Box 128
Wellsville, KS 66092

Operator License# 34350
 Contact Person Doog Evans
 Phone 785-883-4057

Max. Auth. Injection Press _____ Psi; Max Inj. Rate _____ bbl/d;
 If Dual Completion – Injection above production _____ Injection below production _____

	Conductor	Surface	Production	Liner	Tubing
Size		<u>7"</u>	<u>2 7/8"</u>		Size _____
Set at		<u>43'</u>	<u>887.75</u>		Set at _____
Cement Top		<u>Circ</u>	<u>Circ</u>		Type _____
" Bottom		<u>43'</u>	<u>887.75</u>		
DV/Perf.				<u>900</u>	ft. depth _____
Packer type		Size _____		Set at _____	
Zone of injection		ft. to ft. _____		Perf. or open hole _____	

Type MIT: Pressure: Radioactive Tracer Survey: Temperature Survey:

F Time: Start 10 Min 20 Min 30 Min
 I 2:45
 E Pressures: 780 780 780 Set up 1 System Pres. during test _____
 L 3:15
 D _____ Set up 2 Annular Pres. during test _____
 D _____ Set up 3 Fluid loss during test _____ bbls.

T Tested: Casing or Casing – Tubing Annulus
 A

The bottom of the tested zone in shut in with Pressure Test (Rubber Plug)
 Test Date 1/20/2014 Using Midwest Surveys Inc Company's Equipment
 The operator hereby certifies that the zone between 0 feet and 887.75 feet
 was the zone tested David Nelson Signature Contractor Title

The results were Satisfactory Marginal _____ Not Satisfactory _____
 State Agent: Tanya C. Herman Title: PE/CI/H Witness: YES _____ NO
 REMARKS: Pressured well up to 780# well not perfed yet

Origin. Conservation Div.: KDHE/T: ME Dist. Office JAN 23 2014
 Computer Update Is there Chemical Sealant or a Mechanical Casing patch in the annular space? (Y/N)