

Miami County, KS
 Well: Duane Beets AI-10
 Lease Owner: AltaVista

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

Commenced Spudding:
 2/24/16

WELL LOG

Thickness of Strata	Formation	Total Depth
0-10	Soil-Clay	10
21	Lime	31
10	Sand	41
84	Shale	125
20	Lime	145
8	Shale	153
2	Lime	155
6	Shale	161
9	Lime	170
42	Shale	212
16	Lime	228
9	Shale	237
28	Lime	265
9	Shale	274
21	Lime	295
6	Shale	301
3	Lime	304
2	Shale	306
6	Lime	312
142	Shale	454
13	Sand	467
9	Shale	476
13	Shale	489
5	Shale	494
5	Sand	499
36	Shale	535
7	Lime	542
10	Shale	552
3	Lime	555
17	Shale	572
5	Lime	577
22	Shale	599
5	Lime	604
1	Shale	605
8	Lime	613
4	Shale	617
3	Sand	620
6	Sand	626
2	Sand	628
32	Sandy Shale	660

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-10

Farm Duane Beets

KS Miami
(State) (County)

12 18 21
(Section) (Township) (Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Duane
Boets Farm: Miami County

KS State: Well No. AI-10

Elevation 1006

Commenced Spuding 2-24 2016

Finished Drilling 2-25 2016

Driller's Name Wesley Dollard

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Ryan Ward

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name TOS

12 18 21

(Section) (Township) (Range)

Distance from S line, 3660 ft.

Distance from E line, 2330 ft.

3 sacks

9 hrs

5 7/8 borehole

2 7/8 casing

CASING AND TUBING
RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 1/2" Set 20 6 1/2" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

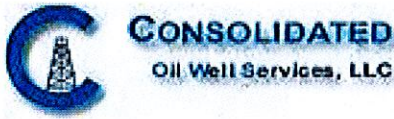
CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
679.8		Baffle			
712.2		Float			
720 TD		2 7/8			

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0-10	soil-clay	10	
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20	Lime	145	
8	shale	153	
2	Lime	155	
6	shale	161	
9	Lime	170	
42	shale	212	
16	Lime	228	
9	shale	237	
28	Lime	265	
9	shale	274	
21	Lime	295	
6	shale	301	
3	Lime	304	
2	shale	306	
6	Lime	312	Herthq
142	shale	454	
13	sand	467	broken oil - good bleed
9	shale	476	
13	Lime	489	
5	shale	494	
5	sand	499	water
36	shale	535	
7	Lime	542	

542

Thickness of Strata	Formation	Total Depth	Remarks
10	Shale	552	
3	Lime	555	
17	Shale	572	
5	Lime	577	
22	Shale	599	
5	Lime	604	
1	Shale	605	
8	Lime	613	
4	Shale	617	
3	Sand	620	Limey - broken Oil mostly solid - good show / pat broken Oil - good show /
6	Sand	626	
2	Sand	628	
32	sandy shale	660	
60	Shale	720	TD



REMIT TO
 Consolidated Oil Well Services, LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884
 Chanute,KS 66720
 620/431-9210,1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice#

807120

Invoice Date: 02/26/16

Terms: Net 30

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ALTAVISTA ENERGY INC
 4595 K-33 HWY, PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

DUANE BEETS AI-10

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	64.000	540.00
CE0002	Equipment Mileage Charge - Heavy Equipment	20.000	7.1500	64.000	51.48
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	64.000	237.60
WE0853	80 BBL Vacuum Truck (Cement Services)	1.500	100.0000	64.000	54.00
CC5840	Poz-Blend I A (50:50)	94.000	13.5000	64.000	456.84
CC5965	Bentonite	258.000	0.3000	64.000	27.86
CC5326	Sodium Chloride, Salt	182.000	0.7500	64.000	49.14
CC6077	Kolseal	470.000	0.5000	64.000	84.60
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	64.000	16.20
CC6128	Mud Flush - C	0.500	50.0000	64.000	9.00

Subtotal 4,240.90

Discounted Amount 2,714.18

SubTotal After Discount 1,526.72

Amount Due 4,383.93 If paid after 03/27/16

Tax: 51.49

Total: 1,578.21



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

5393
5294

TICKET NUMBER 49990
LOCATION Ottawa KS
FOREMAN Fred Mader

**FIELD TICKET & TREATMENT REPORT
CEMENT**

Invoice #807120

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
2-25-16	3274	Duane Beets # AI-10	NE # 12	18	21	M1	
CUSTOMER							
Altavista Energy LLC							
MAILING ADDRESS							
P.O. Box 128							
CITY			STATE		ZIP CODE		
Wellsville			KS		66092		
TRUCK #		DRIVER		TRUCK #		DRIVER	
712		Fre Mad					
495		Harber					
675		Kai Det					
510		Mik Hood					

JOB TYPE Logging HOLE SIZE 5 7/8 HOLE DEPTH 720' CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 712' DRILL PIPE Baffle in TUBING @ 680' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32' + Plug
 DISPLACEMENT 3.95 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 48 BPM

REMARKS: Hold safety mud. Establish pump rate. Pump 1/2 Gal Mud Flush "C"
Circulate to condition hole. Mix + pump 100# Gel flush. Mix +
Pump 94 SKs Por Blend IA Cement 2% Gel 5% Salt 5# Kol Seal/sk.
Cement to surface. Flush pump + lines clean. Displace 2 1/2" Rubber
plug to baffle in casing. Pressure to 800# PSI. Release pressure
to set float valve. Shut in Casing.

TOS Drilling. Wes

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1495	1500 ⁰⁰
CE0002	20 mi	MILEAGE	495	143 ⁰⁰
CE0711	Minimum	Ten Miles Delivery	510	660 ⁰⁰
WE0853	1 1/2 hr	80 BBL Vac Truck	675	150 ⁰⁰
		Sub Total		2453 ⁰⁰
		less 64%	-1569 ⁷²	883 ⁰⁸
1448 CC5840	94 SKS	Por Blend IA Cement	1269 ⁰⁰	
CC5965	258#	Bentonite Gel	774 ⁰⁰	
CC5326	182#	Salt	1365 ⁰⁰	
CC6077	470#	Kol Seal	235 ⁰⁰	
CP F176	1	2 1/2" Rubber Plug	45 ⁰⁰	
CC6124	1/2 Gal	Mud Flush "C"	25 ⁰⁰	
		Sub Total	1787 ⁹⁰	
		less 64%	-1144 ²⁶	643 ⁶⁴
		8%	SALES TAX	51 ⁴⁷
			ESTIMATED TOTAL	1570 ²¹
				4383.93

Ravin 3737

AUTHORIZATION No. Co. Upon site. 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.