

Miami County, KS
Well: Roy Beets AI-53
Lease Owner: AltaVista

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

Commenced Spudding:
3/7/16

WELL LOG

Thickness of Strata	Formation	Total Depth
0-3	Soil-Clay	3
3	Lime	6
18	Sand	24
79	Shale	103
19	Lime	122
9	Shale	131
4	Lime	135
7	Shale	142
8	Lime	150
41	Shale	191
10	Lime	201
1	Shale	202
6	Lime	208
8	Shale	216
29	Lime	245
10	Shale	255
18	Lime	273
6	Shale	279
4	Lime	283
2	Shale	285
5	Lime	290
140	Shale	430
20	Sand	450
4	Shale	454
13	Lime	467
4	Shale	471
9	Sand	480
29	Shale	509
9	Lime	518
11	Shale	529
2	Lime	531
18	Shale	549
8	Lime	557
18	Shale	575
3	Lime	578
2	Shale	580
6	Lime	586
4	Shale	590
5	Sand	595
5	Sand	600

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 x PSI x .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 - $\text{RPM} \times d$ over $\text{SPM} \times R$

d - $\text{SPM} \times R \times D$ over RPM

SPM - $\text{RPM} \times D$ over $R \times d$

R - $\text{RPM} \times D$ over $\text{SPM} \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. AI-53

Farm Roy Beets

KS Miami
(State) (County)

12 R6 21
(Section) (Township) (Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

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

Roy Brats Farm: Miami County
Ks State; Well No. AI-53

Elevation 988
 Commenced Spuding 3-7 20 16
 Finished Drilling 3-8 20 16
 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 3 line, 4980 ft.
 Distance from E line, 3060 ft.

3 sacks
8 hrs
5 5/8 barehole
2 7/8 casing

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
7 1/2" Set 20 _____ 6 3/4" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
652		Baffle			
683		Float			
700	TD			2 7/8	

Thickness of Strata	Formation	Total Depth	Remarks
0-3	soil-clay	3	
3	lime	6	
18	sand	24	no oil
79	shale	103	
19	lime	122	
9	shale	131	
4	lime	135	
7	shale	142	
8	lime	150	
41	shale	191	
10	lime	201	
1	shale	202	
6	lime	208	
8	shale	216	
29	lime	245	
10	shale	255	
18	lime	273	
6	shale	279	
4	lime	283	
2	shale	285	
5	lime	290	Heather
140	shale	430	
20	sand	450	no oil
4	shale	454	
13	lime	467	
4	shale	471	
9	sand	480	no oil

480

Thickness of Strata	Formation	Total Depth	Remarks
29	Shale	509	
9	Lime	518	
11	Shale	529	
2	Lime	531	
18	Shale	549	
8	Lime	557	
18	Shale	575	
3	Lime	578	
2	Shale	580	
6	Lime	586	odor
4	Shale	590	
5	sand	595	broken - OK saturation
5	sand	600	mostly solid - good show
7	sand & sandy shale	607	laminated - not much oil
2	sand	609	solid - good saturation
1	sand	610	broken - good saturation
1	sand	611	solid - good saturation
16	Sandy shale	627	Best oil
73	Shale	700	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.Box884
Chanute, KS 66720
620/431-9210, 1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

807239

Invoice Date: 03/15/16

Terms: Net 30

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ALTAVISTA ENERGY INC

4595 K-33 HWY, PO BOX 128
WELLSVILLE KS 66092
USA

7858834057

roy beets #AI-53

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)	88.000	13.5000	64.000	427.68
CC5965	Bentonite	248.000	0.3000	64.000	26.78
CC5326	Sodium Chloride, Salt	170.000	0.7500	64.000	45.90
CC6077	Kolseal	440.000	0.5000	64.000	79.20
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 4,132.90

Discounted Amount 2,645.06

SubTotal After Discount 1,487.84

Amount Due 4,267.29 If paid after 04/14/16

Tax: 48.38

Total: 1,536.22



CONSOLIDATED
Oil Well Services, LLC

5461
5367

TICKET NUMBER 49997
LOCATION Ottawa KS
FOREMAN Fred Mader

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

**FIELD TICKET & TREATMENT REPORT
CEMENT**

Invoice # 807239

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-8-16	3244	Roy Beets # AZ-53	NW 12	1F	21	M1
CUSTOMER			TRUCK #			
Mailing Address			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
Wellsville			KS			
66092			510			

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 700' CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 682' DRILL PIPE Baffle in TUBING @ 651' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32' Plug
 DISPLACEMENT 3.8 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold Safety meeting. Establish pump rate. Pump 1/2 Gal
Mud Flush "C" Polymer. Circulate well to condition hole.
Mix + Pump 100# Gal Flush. Mix + Pump 88 SKS Poz Blend IA
Cement 2% Gal 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.

TOS Drilling. Was.

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500.00
CE0002	20 mi.	MILEAGE	495	143.00
CE0716	Minimum	Ten Miles Delivery	510	660.00
WE0853	1 1/2 hr	80 BBL Vac Truck	675	150.00
		Sub Total		2453.00
		Less 6%		1569.92
				883.08
CC5840	88 SKS	Poz Blend IA Cement	118.80	1188.00
CC5965	248#	Bentonite Gel	74.40	74.40
CC5326	170#	Salt	127.50	127.50
CC6077	440#	Kol Seal	220.00	220.00
CP5176	1	2 1/2" Rubber Plug	45.00	45.00
CC6128	1/2 Gal	Mud Flush "C" - Polymer	25.00	25.00
		Sub Total		1679.90
		Less 6%		1075.14
				604.76
		8%	SALES TAX	48.38
			ESTIMATED TOTAL	1536.22

Ravin 3737

AUTHORIZATION No Co Rep on Site. TITLE _____ DATE (4267.29)

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.