

Miami County, KS
 Well: O'Brien AI-30
 Lease Owner: AltaVista

Town Oilfield Service, Inc.
 (913) 294-2125

Commenced Spudding:
 4/15/16

WELL LOG

Thickness of Strata	Formation	Total Depth
0-10	Soil-Clay	10
19	Lime	29
10	Shale	39
2	Lime	41
8	Shale	49
8	Lime	57
43	Shale	100
15	Lime	115
9	Shale	124
13	Lime	137
2	Shale	139
15	Lime	154
10	Shale	164
18	Lime	182
5	Shale	187
4	Lime	191
2	Shale	193
5	Lime	198
26	Shale	224
6	Sand	230
113	Shale	343
12	Sand	355
2	Shale	357
15	Lime	372
45	Shale	417
7	Lime	424
12	Shale	436
3	Lime	439
16	Shale	455
4	Lime	459
24	Shale	483
1	Lime	484
5	Shale	489
6	Lime	495
4	Shale	499
6	Sand	505
8	Sand	513
1	Sand	514
3	Sand	517
16	Sandy Shale	533

Commenced Spudding:
4/15/16

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-30

Farm O'Brien

KS Miami
(State) (County)

1 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

Farm: Miam County

State; Well No.

687

4-15

20

4-25

20

Wesley Dollar

Ryan Wood

Name _____

Name _____

705

i

15

又

(Township)

(Range)

5

line. 1622

ft

1

1635

付

3 socks

8413

5 5/8 barchole

2 7/8 casing

CASING AND TUBING

10" Pulled

8" Set

8'' Pulled

76 1/4" Set

20

6¼" Pulled

4" Set

4" Pulled

2" Set

2'' Pulled

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-10	soil-clay	10	
19	Lime	29	
10	Shale	39	
2	Lime	41	
8	Shale	49	
8	Lime	57	
43	Shale	100	
15	Lime	115	
9	Shale	124	
13	Lime	137	
2	Shale	139	
15	Lime	154	
10	Shale	164	
18	Lime	182	
5	Shale	187	
4	Lime	191	
2	Shale	193	
5	Lime	198	Hartha
26	Shale	224	
6	Sand	230	no oil
113	Shale	343	
12	Sand	355	broken oil
2	Shale	357	
15	Lime	372	
45	Shale	417	
7	Lime	424	
12	Shale	436	

[illegible]



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# 807500

Invoice Date: 04/28/16

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128
WELLSVILLE KS 66092
USA
7858834057

obrien ai-30

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	62.000	570.00
CE0002	Equipment Mileage Charge - Heavy Equipment	20.000	7.1500	62.000	54.34
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	62.000	250.80
WE0853	80 BBL Vacuum Truck (Cement Services)	1.500	100.0000	62.000	57.00
CC5840	Poz-Blend I A (50:50)	78.000	13.5000	62.000	400.14
CC5965	Bentonite	231.000	0.3000	62.000	26.33
CC5326	Sodium Chloride, Salt	151.000	1.0000	62.000	57.38
CC6077	Kolseal	390.000	0.5000	62.000	74.10
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	62.000	17.10
CC6128	Mud Flush - C	0.500	50.0000	62.000	9.50

Subtotal 3,991.30

Discounted Amount 2,474.61

SubTotal After Discount 1,516.69

Amount Due 4,114.36 If paid after 05/28/16

Tax: 46.77

Total: 1,563.46



CONSOLIDATED
Oil Well Services, LLC

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

FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 50059
LOCATION Ottawa KS
FOREMAN Fred Mader

Invoice #807500

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-25-16	3244	O'Brien # A-1-30	NE 1	18	21	Mi
CUSTOMER <u>Altavista Energy Inc</u>						
MAILING ADDRESS <u>P.O. Box 125</u>						
CITY <u>Wellsville</u>	STATE <u>KS</u>	ZIP CODE <u>66092</u>				
			TRUCK #	DRIVER	TRUCK #	DRIVER
			712	Fred Mader		
			368	Av/MCD		
			675	Kel Det		
			510	Harbor		

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 600 CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 583 DRILL PIPE Baffle TUBING @ 5.51 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32' x Plug
DISPLACEMENT 3.2 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 78 sks Pot Blend IA
Cement 270 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. Shut in casing.

TOS drilling - was.

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	368 1500 ⁰⁰	
CE0002	20 mi	MILEAGE	368 143 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 62%	-1520 ⁰⁰	932 ¹⁴
CC5840	78 sks	Pot Blend IA Cement	1052 ⁰⁰	
CC5965	231 #	Bentonite Gel	69 ²⁰	
CC5326	151 #	Salt	151 ⁰⁰	
CC6077	390 #	Kol Seal	195 ⁰⁰	
CP6176	1	2 1/2" Rubber Plug	45 ⁰⁰	
CC6128	1/2 Gal	Mud Flush "C"	250 ⁰⁰	
		Sub Total	1538 ²⁰	
		less 62%	-953 ²⁰	584 ⁵⁵
		8%		
		SALES TAX	46 ⁷⁴	
		ESTIMATED TOTAL	1563 ⁴⁵	

Flavin 3737

AUTHORIZATION

Bryan Mills

TITLE

DATE

4/14/16

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.