

Miami County, KS
 Well: O'Brien AI-36
 Lease Owner: AltaVista

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

Commenced Spudding:
 6/17/16

WELL LOG

Thickness of Strata	Formation	Total Depth
0-13	Soil-Clay	13
20	Lime	33
9	Shale	42
2	Lime	44
8	Shale	52
7	Lime	59
42	Shale	101
16	Lime	117
9	Shale	126
30	Lime	156
7	Shale	163
21	Lime	184
5	Shale	189
5	Lime	194
2	Shale	196
5	Lime	201
154	Shale	355
9	Limey Sand	364
7	Lime	371
3	Shale	374
3	Lime	377
43	Shale	420
7	Lime	427
12	Shale	439
3	Lime	442
15	Shale	457
7	Lime	464
19	Shale	483
2	Lime	485
5	Shale	490
7	Lime	497
5	Shale	502
4	Sand	506
5	Sand	511
10	Sand	521
4	Sand	525
9	Sandy Shale	534
66	Shale	600-TD

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-36

Farm O'Brien

KS Miami
(State) (County)

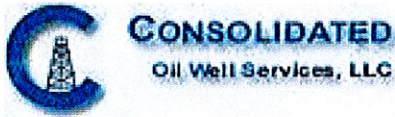
1 18 21
(Section) (Township) (Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

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

Thickness of Strata	Formation	Total Depth	Remarks
0-13	soil-clay	13	
20	Lime	33	
9	Shale	42	
2	Lime	44	
8	Shale	52	
7	Lime	59	
42	Shale	101	
16	Lime	117	
9	Shale	126	
30	Lime	156	
7	Shale	163	
21	Lime	184	
5	Shale	189	
5	Lime	194	
2	Shale	196	
5	Lime	201	
154	Shale	355	Harder
9	limy sand	364	broken oil- good show
7	Lime	371	
3	Shale	374	
3	Lime	377	
43	Shale	420	
7	Lime	427	
12	Shale	439	
3	Lime	442	
15	Shale	457	
7	Lime	464	



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# 807834

Invoice Date: 06/23/16 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

OBRIAN #AI-36

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)	77.000	13.5000	62.000	395.01
CC5965	Bentonite	229.000	0.3000	62.000	26.11
CC5326	Sodium Chloride, Salt	155.000	1.0000	62.000	58.90
CC6077	Kolseal	385.000	0.5000	62.000	73.15
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 3,978.70
 Discounted Amount 2,466.79
 SubTotal After Discount 1,511.91

Amount Due 4,100.76 If paid after 07/23/16

Tax: 46.39
 Total: 1,558.30



CONSOLIDATED
Oil Well Services, LLC

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

5993
5900
Invoice # 807834

TICKET NUMBER 50126
LOCATION Ottawa KS
FOREMAN Fred Madu

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-20-16	3244	O'Brian # AI-36	8E 1	18	21	Mi
CUSTOMER			TRUCK #			
Altuista Energy Inc			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 128			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
Wellsville			DRIVER			
KS			TRUCK #			
66092			DRIVER			

JOB TYPE Long string HOLE SIZE _____ HOLE DEPTH 600' CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 597' DRILL PIPE Baffle in tubing @ 570' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 30' x Plug
 DISPLACEMENT 3.3 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold safety meeting. Establish pump rate. Pump 1/2 Gal Mud Flush "C". Circulate to condition hole. Mix & Pump 100# Gal Flush. Mix & Pump 77 sks Por Blend IA Cement 270 Gal 5% Salt 5# Kal 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 - Wes Dollard

Fred Madu

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	467	1500.00
CE0002	20 mi	MILEAGE	467	143.00
CE0711	Minimum	200 Miles Delivery	558	1660.00
WE0853	1 1/2 hrs	80 BBL Vac Truck	369	150.00
		Sub Total		2453.00
		Less 62%		1520.86
				932.14
CC5840	77 sks	Por Blend IA Cement	1039.50	80000
CC5965	229#	Bentonite Gel	68.20	
CC5828	155#	Salt	155.00	
CC6077	385#	Kal Seal	192.50	
CP8176	1	2 1/2" Rubber Plug	45.00	
CC6128	1/2 Gal	Mud Flush "C"	25.00	
		Sub Total		1525.20
		Less 62%		-945.83
				579.37
			8%	SALES TAX
				ESTIMATED
				TOTAL
				46.39
				1558.30

SCANNED

Revin 3737

AUTHORIZATION _____ TITLE _____ DATE (410026)

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.