

Miami County, KS  
 Well: O'Brien AI-33  
 Lease Owner: AltaVista

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

Commenced Spudding:  
 4/25/16

WELL LOG

Thickness of Strata	Formation	Total Depth
0-12	Soil-Clay	12
20	Lime	32
9	Shale	41
2	Lime	43
8	Shale	51
9	Lime	60
42	Shale	102
15	Lime	117
9	Shale	126
13	Lime	139
1	Shale	140
16	Lime	156
10	Shale	166
18	Lime	184
5	Shale	189
5	Lime	194
2	Shale	196
4	Lime	200
23	Shale	223
16	Sandy Shale	239
108	Shale	347
9	Lime	356
4	Shale	360
14	Lime	374
44	Shale	418
7	Lime	425
11	Shale	436
3	Lime	439
17	Shale	456
7	Lime	463
20	Shale	483
3	Lime	486
3	Shale	489
6	Lime	495
2	Shale	497
2	Sand	499
12	Sand	511
29	Sandy Shale	540
60	Shale	600-TD

# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times 14xh$

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 -  $RPM \times d$  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-33

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
0-12	soil-clay	12	
20	Lime	32	
9	Shale	41	
2	Lime	43	
8	Shale	51	
9	Lime	60	
42	Shale	102	
15	Lime	117	
9	Shale	126	
13	Lime	139	
1	Shale	140	
16	Lime	156	
10	Shale	166	
18	Lime	184	
5	Shale	189	
5	Lime	194	
2	Shale	196	
4	Lime	200	Hefting
23	Shale	223	
16	sanely shale	239	
108	Shale	347	
9	Lime	356	Slight slow
4	Shale	360	
14	Lime	374	
44	Shale	418	
7	Lime	425	
11	Shale	436	





**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#

807699

Invoice Date: 06/08/16

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128  
WELLSVILLE KS 66092  
USA  
7858834057

OBRIAN # AI-33

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)	1.000	100.0000	62.000	38.00
CC5840	Poz-Blend I A (50:50)	70.000	13.5000	62.000	359.10
CC5326	Sodium Chloride, Salt	147.000	0.7500	62.000	41.90
CC6077	Kolseal	350.000	0.5000	62.000	66.50
CC6128	Mud Flush - C	0.500	50.0000	62.000	9.50
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	62.000	17.10
CC5965	Bentonite	218.000	0.3000	62.000	24.85

Subtotal 3,768.65

Discounted Amount 2,336.56

SubTotal After Discount 1,432.09

Amount Due 3,877.90 If paid after 07/08/16

Tax: 41.51

Total: 1,473.60

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7554

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



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 50047  
LOCATION Ottawa, KS  
FOREMAN Casey Kennedy

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

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

Invoice # 807699

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
06/11/10	3244	O'Brian # AI-33	SE 1	18	21	M

  

CUSTOMER		TRUCK #		DRIVER	
Altavista Energy		729	467	558	369
MAILING ADDRESS		✓ Safety meeting		✓	
PO Box 128		✓		✓	
CITY	STATE	ZIP CODE			
Wellsville	KS	66092			

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 600' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 583' DRILL PIPE \_\_\_\_\_ TUBING battle - 551' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 30'  
 DISPLACEMENT 3.19 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: Weld safety meeting, established circulation, mixed & pumped 1/2 gal Polymer, circulated well to condition hole, mixed & pumped 100 # gel followed by 5 bbls fresh water, mixed & pumped 70 SKS Pozblend 1A cement w/ 2% gel, 5% salt, + 5 # Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to battle w/ 3.19 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

*Handwritten signature/initials*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	20 mi	MILEAGE	143.00	
CE0711	min	ton mileage	600.00	
WE0853	1 hr	80 Vac	100.00	
		trucks	2403.00	
		-62%	1489.86	
		subtotal		913.14
<u>CC5840</u>	70 sks	Pozblend 1A cement	945.00	
CC1965	218 #	Gel .30	65.40	
CC5326	147 #	Salt .75	110.25	
CC16077	350 #	Kalseal .50	175.00	
CC6128	1/2 gal	Mud Flush	25.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1365.65	
		-62%	846.70	
		subtotal		518.96
		8%	SALES TAX	41.56
			ESTIMATED TOTAL	1473.60

Rev'n 3737

AUTHORIZATION Byron Sully TITLE \_\_\_\_\_ DATE (3877.22)

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.