

Miami County, KS  
 Well: O'Brien AI-37  
 Lease Owner: AltaVista

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

Commenced Spudding:  
 6/14/16

WELL LOG

Thickness of Strata	Formation	Total Depth
0-13	Soil-Clay	13
18	Lime	31
9	Shale	40
3	Lime	43
7	Shale	50
7	Lime	57
42	Shale	99
15	Lime	114
10	Shale	124
12	Lime	136
2	Shale	138
16	Lime	154
7	Shale	161
21	Lime	182
4	Shale	186
3	Lime	189
4	Shale	193
5	Lime	198
155	Shale	353
10	Limey Sand	363
14	Lime	377
45	Shale	422
6	Lime	428
12	Shale	440
3	Lime	443
16	Shale	459
5	Lime	464
21	Shale	485
2	Lime	487
5	Shale	492
7	Lime	499
12	Shale	511
3	Sand	514
1	Sand	515
4	Sand	519
7	Sand	526
7	Sandy Shale	533
67	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-37

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

O'Brien Farm: Miami County

KS State: Well No. AI-37

Elevation 893

Commenced Spuding 6-14 .20 16

Finished Drilling 6-17 .20 16

Driller's Name Wesley Dillard

Driller's Name \_\_\_\_\_

Driller's Name \_\_\_\_\_

Tool Dresser's Name Ryan Ward

Tool Dresser's Name \_\_\_\_\_

Tool Dresser's Name \_\_\_\_\_

Contractor's Name TOS

1 18 21

(Section) (Township) (Range)

Distance from S line, 1260 ft.

Distance from E line, 420 ft.

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

**CASING AND TUBING RECORD**

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
 7 1/2" Set 20 6 1/4" Pulled \_\_\_\_\_  
 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

**CASING AND TUBING MEASUREMENTS**

Feet	In.	Feet	In.	Feet	In.
562		Baffle			
587		Floet			
600		TD		2 7/8	

Thickness of Strata	Formation	Total Depth	Remarks
0-13	soil-clay	13	
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7	Shale	50	
7	Lime	57	
42	Shale	99	
15	Lime	114	
10	Shale	124	
12	Lime	136	
2	Shale	138	
16	Lime	154	
7	Shale	161	
21	Lime	182	
4	Shale	186	
3	Lime	189	
4	Shale	193	
5	Lime	198	Heather
155	Shale	353	
10	limey sand	363	broken oil-goes slow
14	Lime	377	
45	Shale	422	
6	Lime	428	
12	Shale	440	
3	Lime	443	
16	Shale	459	
5	Lime	464	

464

Thickness of Strata	Formation	Total Depth	Remarks
21	Shale	485	
2	lime	487	
5	Shale	492	
7	lime	499	odor
12	Shale	511	
3	sand	514	broken - not much oil
1	sand	515	no oil
4	sand	519	broken - good oil show
7	sand	526	mostly solid - good saturation
7	sandy shale	533	
67	Shale	600	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#

807818

Invoice Date: 06/21/16

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

OBrian #AI-37

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)	76.000	13.5000	62.000	389.88
CC5965	Bentonite	228.000	0.3000	62.000	25.99
CC5326	Sodium Chloride, Salt	153.000	1.0000	62.000	58.14
CC6077	Kolseal	380.000	0.5000	62.000	72.20
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 3,960.40

Discounted Amount 2,455.45

SubTotal After Discount 1,504.95

Amount Due 4,080.99 If paid after 07/21/16

Tax: 45.82

Total: 1,550.77



**CONSOLIDATED**  
Oil Well Services, LLC

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

5971  
5880

807818

TICKET NUMBER 50125

LOCATION Ottawa KS

FOREMAN Fred Maden

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-17-16	3244	O'Brian # A.I. 37	SE 1	18	21	M1
CUSTOMER			TRUCK #			
Altavista Energy Inc			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 128			DRIVER			
CITY		STATE	ZIP CODE			
Wellsville		KS	66092			

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 600 CASING SIZE & WEIGHT 2 7/8 EVE  
 CASING DEPTH 587 DRILL PIPE Ruffle m TUBING @ 562 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 30' + plug  
 DISPLACEMENT 3.278 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 46 BPM

REMARKS: Hold Safety Meeting. Establish pump rate. Pump 1/2 Gal Mud Flush "C"  
Circulate well to condition hole. Mix + Pump 100# Gal Flush.  
Mix + Pump 76 sks Poz Blend IA Cement 220 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. - Westy Dallard

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450 ✓	1	✓ PUMP CHARGE	467	1500 <sup>00</sup>
CE0002 ✓	20 mi.	✓ MILEAGE	467	143 <sup>00</sup>
CE0711 ✓	Minimum	✓ Ten miles Delivery	558	660 <sup>00</sup>
WE0853 ✓	1 1/2 hr	✓ 80 BBL Vac Truck	369	150 <sup>00</sup>
		Sub Total		2453 <sup>00</sup>
		Less 62%	-1520 <sup>84</sup>	932 <sup>14</sup>
8822 CC5540 ✓	76 sks	✓ Poz Blend IA Cement		7026 <sup>00</sup>
CC5965 ✓	228#	✓ Bentonite Gel		684 <sup>00</sup>
CC5326 ✓	153#	✓ Salt		153 <sup>00</sup>
CC6077 ✓	380#	✓ Kol Seal		190 <sup>00</sup>
CP8176 ✓	1	✓ 2 1/2" Rubber plug		45 <sup>00</sup>
CC6128 ✓	1/2 Gal	✓ Mud Flush "C"		25 <sup>00</sup>
		Sub Total		1507 <sup>40</sup>
		Less 62%	-934 <sup>59</sup>	572 <sup>81</sup>
		8%	SALES TAX	45 <sup>82</sup>
		ESTIMATED TOTAL		1550 <sup>77</sup>

**SCANNED**  
Ravin 3737

AUTHORIZATION No Rep TITLE \_\_\_\_\_ DATE (4/08/25)

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.