

Miami County, KS
Well: O'Brien A-42
Lease Owner: AltaVista

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

Commenced Spudding:
6/10/16

WELL LOG

Thickness of Strata	Formation	Total Depth
0-33	Soil-Clay	33
7	Shale	40
19	Lime	59
9	Shale	68
2	Lime	70
9	Shale	79
8	Lime	87
42	Shale	129
15	Lime	144
10	Shale	154
11	Lime	165
3	Shale	168
14	Lime	182
8	Shale	190
21	Lime	211
5	Shale	216
4	Lime	220
2	Shale	222
6	Lime	228
137	Shale	365
17	Lime	382
8	Shale	390
6	Lime	396
2	Shale	398
4	Lime	402
42	Shale	444
7	Lime	451
12	Shale	463
3	Lime	466
17	Shale	483
7	Lime	490
18	Shale	508
2	Lime	510
3	Shale	513
6	Lime	519
3	Shale	522
1	Sand	523
5	Sand	528
1	Sand	529
6	Sand	535

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[illegible]

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 - RPMxd over SPMxR

d - SPMxRx D over RPM

SPM - RPMxD over Rx D

R - RPMxD over SPMxD

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. A-42

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. A-42

Elevation 925

Commenced Spuding 6-10 20 16

Finished Drilling 6-13 20 16

Driller's Name Wesley D. Lane

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 5 line, 670 ft.

Distance from E line, 1825 ft.

4 sacks

Shis

5 5/8 borehole

27/8 casino

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7/8" Set 23 6 1/4" Pulled

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-33	Soil - Clay	33	
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17	Lime	382	
8	Shale	390	
6	Lime	396	
2	Shale	398	
4	Lime	402	
42	Shale	444	
7	Lime	451	

[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.Box 884
Chanute, KS 66720
620/431-9210, 1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

807802

Invoice Date: 06/17/16

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128
WELLSVILLE KS 66092
USA
7858834057

OBRIAN #A-42

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)	72.000	13.5000	62.000	369.36
CC5965	Bentonite	221.000	0.3000	62.000	25.19
CC5326	Sodium Chloride, Salt	151.000	1.0000	62.000	57.38
CC6077	Kolseal	360.000	0.5000	62.000	68.40
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	62.000	17.10

Subtotal 3,817.30

Discounted Amount 2,366.73

SubTotal After Discount 1,450.57

Amount Due 3,930.44 If paid after 07/17/16

Tax: 42.99

Total: 1,493.56



CONSOLIDATED
Oil Well Services, LLC

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

FIELD TICKET & TREATMENT REPORT
CEMENT

801802
5949
5653
TICKET NUMBER 50050
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/13/16	3244	O'Brian # A-42	SE 1	18	21	LL
CUSTOMER <u>Altavista Energy</u>						
MAILING ADDRESS <u>PO Box 128</u>						
CITY <u>Wellsville</u>	STATE <u>KS</u>	ZIP CODE <u>66092</u>				
			TRUCK #	DRIVER	TRUCK #	DRIVER
			729	Car Ken	✓ Safety	Meeting
			467	Kei Car	✓	
			558	Mik Han	✓	
			675	Kei Det	✓	

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 6000' CASING SIZE & WEIGHT 2 1/8" EUE
CASING DEPTH 558' DRILL PIPE TUBING baffle - 555' OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 33'
DISPLACEMENT 3.21 bbls DISPLACEMENT PSI MIX PSI RATE 4 bpm

REMARKS: hold safety meeting, established circulation, mixed + pumped 100 # gel followed by 5 bbls fresh water, mixed + pumped 72 sks Portland 1A cement w/ 2% gel, 5% salt, + 5 # Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 3.21 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

Handwritten signature

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	✓ ten mileage	600.00	
WE0853 ✓	1 hr	✓ 80 Vac	100.00	
		trucks	2403.00	
		- 62%	1489.86	
		subtotal		913.14
81% CC5840 ✓	72 sks	✓ Portland 1A cement	972.00	
CC5965 ✓	221 #	✓ Gel	66.30	
CC5326 ✓	151 #	✓ Salt 1.00	151.00	
CC6077 ✓	360 #	✓ Kalseal .50	180.00	
CP8176 ✓	1	✓ 2 1/2" rubber plug	45.00	
		materials	1414.30	
		- 62%	876.87	
		subtotal		537.43
		8%	SALES TAX	42.99 ✓
		ESTIMATED TOTAL		1493.56 ✓
		DATE		(3930.44) ✓

SCANNED

Revin 3737

AUTHORIZATION No Co Rep TITLE DATE
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.