

Miami County, KS
 Well: O'Brien AI-40
 Lease Owner: AltaVista

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

Commenced Spudding:
 6/13/16

WELL LOG

Thickness of Strata	Formation	Total Depth
0-24	Soil-Clay	24
19	Lime	43
9	Shale	52
2	Lime	54
9	Shale	63
8	Lime	71
41	Shale	112
16	Lime	128
9	Shale	137
12	Lime	149
2	Shale	151
15	Lime	166
8	Shale	174
21	Lime	195
4	Shale	199
4	Lime	203
2	Shale	205
5	Lime	210
139	Shale	349
6	Lime	355
3	Shale	358
4	Lime	362
11	Shale	373
13	Lime	386
42	Shale	428
6	Lime	434
12	Shale	446
3	Lime	449
15	Shale	464
7	Lime	471
19	Shale	490
2	Lime	492
4	Shale	496
6	Lime	502
2	Shale	504
1	Sand	505
2	Sand	507
1	Sandy Lime	508
4	Sand	512
10	Sand	522

Commenced Spudding:
6/13/16

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 - 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. AI-40

Farm O'Brien

KS Miami
(State) (County)

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

For Altavesta 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-40

Elevation 900

Commenced Spuding 6-13 2016

Commenced Spuding 6-15 2016

Finished Drilling 6-14 2016

Finished Drilling 019 2016

Driller's Name Wesley Dollard

Driver's Name _____

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Ryan Ward

Tool Dresser's Name Ryan Welch

Tool Dresser's Name _____

Tool Developer's Name

Tool Dresser's Name _____

Contractor's Name 703

Contractor's Name 151 71

1	18	2
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(Section) (Township) (Range)

§ 905

Distance from 103 line, 103 ft.

Page 1 of 1

Distance from 6 line, 7052 ft.

3 sacks

2000

8/15

OKS
1/1/10

5 3/4 inch dia

7/90

2 1/4 cases

CASING AND TUBING

RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

— 2 —

6 1/4" Set 20 6 1/4" Pulled

4" Bulled

4" Set 4" Pulled

2" Set 2" Pulled

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-24	Soil-clay	24	
19	Lime	43	
9	Shale	52	
2	Lime	54	
9	Shale	63	
8	Lime	71	
41	Shale	112	
16	Lime	128	
9	Shale	137	
12	Lime	149	
2	Shale	151	
15	Lime	166	
8	Shale	174	
21	Lime	195	
4	Shale	199	
4	Lime	203	
2	Shale	205	
5	Lime	210	Heather
139	Shale	349	
6	Lime	355	
3	Shale	358	
4	Lime	362	
11	Shale	373	
13	Lime	386	
42	Shale	428	
6	Lime	434	
12	Shale	446	

[illegible]



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# 807803

Invoice Date: 06/17/16

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128
WELLSVILLE KS 66092
USA
7858834057

OBRIAN AI-40

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)	72.000	13.5000	62.000	369.36
CC5965	Bentonite	221.000	0.3000	62.000	25.19
CC5326	Sodium Chloride, Salt	145.000	1.0000	62.000	55.10
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
CC6128	Mud Flush - C	0.500	50.0000	62.000	9.50

Subtotal 3,886.30

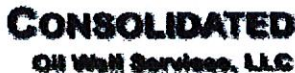
Discounted Amount 2,409.51

SubTotal After Discount 1,476.79

Amount Due 4,000.96 If paid after 07/17/16

Tax: 43.57

Total: 1,520.36



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

FIELD TICKET & TREATMENT REPORT CEMENT

807803

TICKET NUMBER 50124
LOCATION Ottawa KS
FOREMAN Fred Mader

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-14-16	3244	O'Brien # AI-40	SE 1	18	21	M1
CUSTOMER						
Alta Vista Energy Inc						
MAILING ADDRESS						
P.O. Box 138						
CITY		STATE	ZIP CODE			
Wellsville		KS	66067			

JOB TYPE <u>Long string</u>	HOLE SIZE	HOLE DEPTH <u>600'</u>	CASING SIZE & WEIGHT <u>2 7/8 EUE</u>
CASING DEPTH <u>5800</u>	DRILL PIPE <u>Baffle</u>	TUBING <u>550</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>30' + Plug</u>
DISPLACEMENT <u>3.2 BBL</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>48 PM</u>

REMARKS: Hold Safety meeting. Establish pump rate. Pump $\frac{1}{2}$ Gal Mud Flush "C", Circulate well to condition hole. Mix & Pump 100# Gel Flush. Mix & Pump 72 sks Por Bleed IA Cement 2% Gel 5% Salt 5# Kol Seal/sk. Cement to surface. Flush pump & lines clean. Displace 2 $\frac{1}{2}$ " Robber plug to baffle in Casing. Pressure to 800# PSI. Release pressure to set Flood Valve. shut in Casing.

Tos Drilling -

Fred Mader

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	148 ⁰⁰
CE0711 ✓	Minimum	✓ Ton Miles Delivery	558	660 ⁰⁰
WE0853 ✓	1 1/2 hr	✓ 80 BBL Vac Truck	675	150 ⁰⁰
		Sub Total		2453 ⁰⁰
		less 62%		-1520 ²⁶
				932 ¹⁴
CC5840 ✓	723XS	✓ Poz Blend IA Cement		972 ⁰⁰
CC5965 ✓	221#	✓ Bentonite Gel		66 ³⁰
CC5326 ✓	145#	✓ Sulf		145 ⁰⁰
CC 5326 6077 ✓	360#	✓ Kal Seal		180 ⁰⁰
CP8176 ✓	1	✓ 2 1/2" Rubber Plug		45 ⁰⁰
CC6128 ✓	1/2 Gal	✓ Mud Flush "C"		25 ⁰⁰
		Sub Total		1433 ³⁰
		5220 Less 62%		-888 ⁶⁵
				544 ⁶⁵
SCANNED				
		8%	SALES TAX	43 ⁵⁷

Rayln 3737

ESTIMATED TOTAL	1520 ³⁶
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AUTHORIZATION No Co Reson Site TITLE _____ DATE (4000.96)

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.