

Miami County, KS
 Well: Hamilton 24-W1
 Lease Owner: Excel Oil and Gas

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

Commenced Spudding:
 10/24/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
16	soil/clay	16
54	shale	70
17	lime	87
25	shale	112
5	lime	117
39	shale	156
11	lime	167
2	shale	169
3	lime	172
10	shale	182
30	lime	212
3	shale	215
2	coal	217
2	shale	219
23	lime	242
5	shale	247
5	lime	252
2	shale	254
4	lime	258
30	shale	288
5	sand	293
5	sandy shale	298
60	shale	358
5	sand	363
4	sandy shale	367
20	shale	388
4	sandy lime	392
2	sand	394
2	sand	396
2	brokensand	398
1	sand	399
3	sand	402
2	sand	404
5	broken sand	409
4	sandy shale	413
13	lime	426
44	shale	470
7	lime	477
3	broken sand	480-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 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. 24-W1

Farm Hamilton

KS Miami
(State) (County)

24 17 21
(Section) (Township) (Range)

For Excel Oil & Gas
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
16	sand / clay	16	
54	shale	70	
17	Lime	87	
25	shale	112	
5	Lime	117	
39	shale	156	
11	Lime	167	
2	shale	169	
3	Lime	172	
10	shale	182	
30	Lime	212	
3	shale	215	
2	coal	217	
2	shale	219	
23	Lime	242	
5	shale	247	
5	Lime	252	
2	shale	254	
4	Lime	258	Harder
30	shale	288	
5	sand	293	no oil
5	sandy shale	298	
60	shale	358	
5	sand	363	
4	sandy shale	367	
21	shale	388	
4	sandy Lime	392	no oil



CONSOLIDATED
Oil Well Services, LLC

263497

TICKET NUMBER 44766

LOCATION Ottawa, KS

FOREMAN Corey Kennedy

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

**FIELD TICKET & TREATMENT REPORT
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/25/13	2624	Hamilton # 24-W1	SW 21	17	21	MI
CUSTOMER <u>Excel Oil & Gas</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>PO Box 68</u>			481	Cesken	✓ Safety Meeting	
CITY <u>Bucyrus</u>			6066	Garlap	✓	
STATE <u>KS</u>			598	Mit Hog	✓	
ZIP CODE <u>666013</u>			1075	Keidat	✓	

JOB TYPE Logging HOLE SIZE 5 5/8" HOLE DEPTH 480' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 455' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 2.63 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 70 sks 50/50 Pozmix cement w/ 27 gal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TP w/ 2.63 bbls fresh water, pressured to 800 PSI, well hold pressure for 30 min MIT, released pressure, shut in casing.

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ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	on lease	MILEAGE		
5402	455'	casing footage		
5407	1/2 minimum	tan mileage		184.00
5502C	1.5 hrs	SD Vac		135.00
1124	70 sks	50/50 Pozmix cement		805.00
1118B	318 #	Premium Gel		609.96
4402	1	2 1/2" rubber plug		29.50
			SALES TAX	66.93
			ESTIMATED TOTAL	2375.39

Revin 3737

AUTHORIZATION _____ 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