

Anderson County, KS  
Well: Zastrow 28-HP  
Lease Owner: Haas

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

Commenced Spudding:  
7-22-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
12	soil / clay	12
45	shale	57
27	lime	84
15	shale	99
3	lime	102
4	shale & lime	106
2	lime	108
45	shale	153
11	lime	164
8	shale	172
36	lime	208
6	shale	214
21	lime	235
3	shale	238
23	lime	261
4	shale	265
3	lime	268
6	sandy shale	274
19	shale	293
4	sand	297
25	shale	322
19	sandy shale	341
49	shale	390
7	sand	397
5	sandy shale	402
25	shale	427
2	lime	429
5	shale	434
2	lime	436
3	shale	439
11	lime	450
6	shale	456
9	sand	465
6	sandy shale	471
8	shale	479
8	sand	487
6	snady shale	493
9	shale	502
2	coal	504
7	lime	511

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[illegible]



## FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 42197  
LOCATION Ottawa, KS  
FOREMAN Casper Kennedy  
CPT

JOB TYPE <u>longstring</u>	HOLE SIZE <u>5 5/8"</u>	HOLE DEPTH <u>800'</u>	CASING SIZE & WEIGHT <u>2 7/8" EVE</u>
CASING DEPTH <u>786'</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING _____
DISPLACEMENT <u>4.55 bbls</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>4.5 bpm</u>
REMARKS: <u>held safety meeting, established circulation, mixed &amp; pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed &amp; pumped 105 sks 50/50 Pozmix cement w/ 2% gel per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TD w/ 4.55 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.</u>			

27/2

[illegible]

David 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 for