

Anderson County, KS  
Well:Zastrow 5I-HP  
Lease Owner:Haas Petroleum

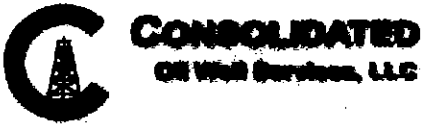
Town Oilfield Service, Inc.  
(913) 837-8400

Commenced Spudding:  
9-13-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
13	soil/clay	13
39	shale	52
26	lime	74
15	shale	93
3	lime	96
3	shale and lime	99
2	lime	101
45	shale	146
11	lime	157
8	shale	165
27	lime	202
6	shale	208
21	lime	229
3	shale	232
22	lime	234
4	shale	238
3	lime	261
7	sandy shale	268
17	shale	285
4	sand	289
14	shale	303
10	sandy and sandy shale	313
12	sandy shale	325
58	shale	383
7	sand	390
4	sandy shale	394
26	shale	420
2	lime	422
6	shale	428
2	lime	430
4	shale	434
10	lime	444
9	shale	453
4	sand	457
1	lime	458
2	sandy shale	460
12	shale	472
8	sand	480
6	sandy shale	486
8	shale	494





262438

TICKET NUMBER 42505  
 LOCATION Ottawa  
 FOREMAN Alan Mader

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
9-18-13	3451	Zastrow 5-I-HP	NW 13	20	20	AN
CUSTOMER Hgas Petroleum			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 11551 Ash St Ste 205			516	Alan Mader	368	Jeffrey Mader
CITY STATE ZIP CODE Chanute KS 66211			370	Mikhael		
			510	Getter		

JOB TYPE long string HOLE SIZE 5 5/8 HOLE DEPTH 800 CASING SIZE & WEIGHT 2 7/8  
 CASING DEPTH 760 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING yes  
 DISPLACEMENT 4.7 DISPLACEMENT PSI 800 MIX PSI 200 RATE 46 gpm

REMARKS: Held meeting. Hooked to casing. Established rate. Mixed & pumped 100 # gel followed by 106 sls 50150 cement plus 2% gel. Circulated cement. Flashed pump. Pumped plug to casing TD. Well held 800 PST for 30 minute MIT. Set float. Closed valve.

TD, Chad Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1085.00 ✓
5406	25	MILEAGE	368	105.00 ✓
5402	760	casing footage	368	— ✓
5407	min	ten miles	510	368.00 ✓
55026	2	80 vac	370	120.00 ✓
1124	106	50150 cement		1219.00 ✓
1180	278	gel		61.16 ✓
4402	1	2 1/2 plug		29.50 ✓
<b>completed</b>				
SALES TAX				100.19 ✓
ESTIMATED TOTAL				3147.85 ✓

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