

Miami County, KS  
Well: Hanahan 2-HP  
Lease Owner: Haas Petroleum

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

Commenced Spudding:  
10/25/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
5	soil/clay	5
10	lime	15
22	shale	37
11	lime	48
40	shale	88
16	lime	104
9	shale	113
29	lime	142
7	shale	149
21	lime	170
5	shale	175
3	lime	178
4	shale	182
5	lime	187
2	shale	189
2	lime	191
100	shale	291
5	sand	296
3	sandy shale	299
23	shale	322
10	sand	332
3	lime	335
3	sandy lime	338
3	broken sand	341
1	broken sand	342
1	sandy lime	343
2	sand	345
1	broken sand	346
2	shale	348
15	lime	363
3	shale	366
22	sandy shale	388
23	shale	411
8	lime	419
12	shale	431
3	lime	434
14	shale	448
5	lime	453
8	shale	461
3	red bed	464







**CONSOLIDATED**  
Oil Well Services, LLC

263695

TICKET NUMBER 44803

LOCATION Ottawa KS

FOREMAN Fred 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
11/4/13	3451	Hanahan # 2 HP	NW 32	17	22	MI
CUSTOMER <u>Haas Petroleum LLC</u>						
MAILING ADDRESS <u>11551 Ash St. Ste 205</u>						
CITY <u>Leawood</u>		STATE <u>KS</u>	ZIP CODE <u>66211</u>			
		TRUCK #	DRIVER	TRUCK #	DRIVER	
		<u>712</u>	<u>Fred Mader</u>			
		<u>495</u>	<u>Har Bee</u>			
		<u>370</u>	<u>Jim Ric</u>			
		<u>570</u>	<u>Set Joe</u>			

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 400 CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 372 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 2 1/2" Plug  
 DISPLACEMENT 216 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 BPM

REMARKS: Hold crew safety meeting. Establish circulation. Mix & Pump 100# Gel flush. Mix & Pump 61 sls 50/50 Poz Mix Cement 2% Gel. Cement to surface. Flush pump & lines clean. Displace 2 1/2" Rubber Plug to casing TD. Pressure to 600# PSI. Release pressure to set float valve. Shut in casing.

TOS Drilling - Chad Weaver

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085.00
5406	20 mi	MILEAGE	495	89.00
5402	372	Casing footage		N/C
5407	1/2 Minimum	Ton Miles	570	184.00
5502C	1 1/2 hr	80 BBL Vac Truck	370	135.00
1124	61 sls	50/50 Poz Mix Cement		701.50
1118B	203#	Premium Gel		446.66
4402	1	2 1/2" Rubber Plug		29.50
			7.65 7.4%	
			SALES TAX ESTIMATED TOTAL	59.34
				2323.00

**completed**

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.