



*Fueling American Prosperity™*

# Oil and Gas Well Drilling

3137 Virginia Rd, Wellsville KS 66092

Owners: Clay Hughes

Isaac Burbank

## Well Log

Nick & Connie Hart  
 Hart Well #: 10  
 Sec. 5 Twp. 17 Rng. 22  
 Miami County  
 FSL: 3490 FEL: 2640  
 API: 15-121-31034  
 Start: 07/02/15  
 End: 07/06/15

Phone: (785) 979-9493

(913) 963-9127

Fax: (785) 883-2305

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
7	Soil & Clay	7	
5	Shale	12	
12	Lime	24	
11	Shale	35	
20	Lime	55	
17	Shale	72	
19	Lime	91	
100	Shale	191	
18	Lime	209	
5	Shale	214	
2	Lime	216	
10	Shale	226	
1	Lime	227	
8	Shale	235	
7	Lime	242	
35	Shale	277	
15	Lime	292	
15	Shale	307	
11	Lime	318	
2	Shale	320	
15	Lime	335	
6	Shale	341	
22	Lime	363	Oil show
5	Shale	368	
7	Lime	375	
1	Shale	376	
6	Lime	382	Base of the Kansas City / Hertha
24	Shale	406	
4	Sand	410	Grey, no show, some gas
8	Broken Sand	418	50% sand, 50% shale, ok bleed
10	Silty Shale	428	
87	Shale	515	

4	Silty Shale	519	
34	Shale	553	
10	Lime	563	Oil show
32	Shale	595	
4	Lime	599	
17	Shale	616	
3	Lime	619	
15	Shale	634	
2	Lime	636	
16	Shale	652	
4	Lime	656	
6	Shale	662	
1	Lime	663	
3	Shale	666	
1	Silty Shale	667	
2	Shale	669	
3	Silty Shale	672	
2	Broken Sand	674	25% brown sand, 75% laminated shale seems, light bleed
1	Broken Sand	675	75% brown sand, 25% shale, gassy, light bleed
1.5	Oil Sand	676.5	Brown sand, ok bleed, gassy
2.5	Broken Sand	679	90% brown sand, 10% laminated shale, good bleed
1	Shale	680	
2.5	Broken Sand	682.5	40% brown sand, 60% shale laminations, ok bleed, gassy
5.5	Silty Shale	688	
69	Shale	757	TD

Drilled an 11" hole to 22.4'  
Drilled a 5 5/8" hole to 757'

07/02/15 set 21.4' of 7" surface casing, cemented with 8 sacks of cement.

07/06/15 chip cored Upper Squirrel zone.

07/06/15 set 747' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,  
1 float-shoe, and baffle.  
Baffle set at 715'.

Best perforation zone: 674'-679', possibly 680.5'-682.5' (N.H.)

**Core Times**

<u>Depth</u>	<u>Minutes</u>	<u>Seconds</u>
672-673	1	05
674	1	02
675	1	02
676	1	09
677	1	11
678	1	21
679	1	04
680	1	07
681	1	00
682	1	19
683	1	01
684	1	11
685	1	15
686	1	23
687	1	25
688	1	30
689	1	37
690	1	26
691	1	27
691-692	1	11



3488

TICKET NUMBER 49700  
 LOCATION Ottawa, KS  
 FOREMAN Cory 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
7/6/15	3635	Hart # 10	NW 3	16	21	FR
CUSTOMER Hart Oil Inc.						
MAILING ADDRESS PO Box 250						
CITY Paola		STATE KS	ZIP CODE 66071			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			729	Cosken	✓ Safety Meeting	
			467	KeiCar	✓	
			558	Trotter	✓	
			319	Mikha	✓	

JOB TYPE Logging HOLE SIZE 5 5/8" HOLE DEPTH 757' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 747' DRILL PIPE TUBING baffle - 715' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 32'  
 DISPLACEMENT 4.14 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 200 # Gel followed by 5 bbls fresh water, mixed + pumped 95 lbs 50/50 Portland cement w/ 2% gel + 1/2 # Phenoseal per sk, cement to surface, pushed pump clean, pumped 2 1/2" roller plug to baffle w/ 4.14 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

*[Handwritten signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	20 mi	MILEAGE	143.00	
CE0711	min	van mileage	660.00	
WE0850	2 hrs	800 Vac	200.00	
		trucks	2503.00	
		- 49%	1226.47	
		subtotal		1276.53
CC5840	95 sks	50/50 Portland	1282.50	
CC5965	360 #	Gel	108.00	
CC6079	48 #	Phenoseal	64.80	
CP8176	1	2 1/2" roller plug	45.00	
		materials	1500.30	
		- 49%	735.15	
		subtotal		765.15
		8%		
		SALES TAX		61.21
		ESTIMATED TOTAL		2102.89

Rev'n 3737

AUTHORIZATION No Co. Rep. TITLE \_\_\_\_\_ DATE (4123.32)

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.