



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 #: IW-1
 Sec. 5 Twp. 17 Rng. 22
 Miami County
 FSL: 4420 FEL: 2475
 API: 15-121-31026
 Start: 07/24/15
 End: 07/27/15

Phone: (785) 979-9493

(913) 963-9127

Fax: (785) 883-2305

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
5	Soil & Clay	5	
12	Broken Lime	17	
13	Shale	30	
22	Lime	52	
20	Shale	72	
11	Lime	83	
99	Shale	182	
17	Lime	199	
8	Shale	207	
1	Lime	208	
21	Shale	229	
5	Lime	234	
37	Shale	271	
10	Lime	281	
1	Shale	282	
5	Lime	287	
12	Shale	299	
12	Lime	311	Oil show
1	Shale	312	
16	Lime	328	
8	Shale	336	
20	Lime	356	Oil show
4	Shale	360	
14	Lime	374	Base of the Kansas City / Hertha
31	Shale	405	
1	Silty Shale	406	
3	Broken Sand	409	Limey, hard, green, gassy
7	Broken Sand	416	Grey sand & shale, light bleed, gassy
2	Silty Shale	418	
94	Shale	512	
8	Shale	520	Red bed
24	Shale	544	

7	Lime	551	Oil show
8	Shale	559	
2	Lime	561	
25	Shale	586	
3	Lime	589	
17	Shale	606	
4	Lime	610	
14	Shale	624	
2	Lime	626	
4	Broken Lime	630	
10	Shale	640	
5	Lime	645	
12	Shale	657	
2	Silty Shale	659	
3	Broken Sand	662	20% brown sand, 80% shale, minimal show
2	Broken Sand	664	40% brown sand, 60% shale, light bleed
3	Oil Sand	667	Brown, good bleed
2	Limey Sand	669	Grey, no oil
1	Oil Sand	670	Brown, good bleed
2	Broken Sand	672	85% brown sand, 15% shale, good bleed
1	Broken sand	673	50% brown sand, 50% shale, ok bleed
1	Broken Sand	674	90% brown sand, 10% shale, good bleed
1	Silty Shale	675	
1	Broken Sand	676	90% dark brown sand, 10% shale, ok bleed
4	Silty Shale	680	
56	Shale	736	
3	Oil Sand	739	Dark brown sand, ok bleed
2	Oil Sand	741	Black sand, light bleed
3	Shale	744	TD

Drilled an 11" hole to 22.6'
Drilled a 5 5/8" hole to 744'

07/24/15 set 22.6' of 7" surface casing, cemented with 8 sacks of cement.

07/27/15 chip sampled Upper Squirrel zone.

07/27/15 set 734' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,
1 float-shoe, and baffle.
Baffle set at 707'.

Best perforation zone: 662'-674' (C.C.H.)
Do NOT perforate 675'-676' (C.C.H.)



CONSOLIDATED
Oil Well Services, LLC

3785
3651

TICKET NUMBER 49739
LOCATION Ottawa, KS
FOREMAN Casey, Kennedy

PO Box 884, Chanute, KS 66720
820-431-9210 or 800-467-8678

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/27/15	3635	Hart # IW-1	NES	17	22	MI
CUSTOMER Hart Oil Co.			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS PO Box 250			729 Caslen ✓ Safety Meeting			
CITY STATE ZIP CODE Pada KS 666071			467 KeiCar ✓			
			804 HarBar ✓			
			625 KeiDet ✓			

JOB TYPE logstring HOLE SIZE 5 5/8" HOLE DEPTH 744' CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 734' DRILL PIPE _____ TUBING baffle - 707' OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 27'
DISPLACEMENT 4.09 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 sks 50% Portland cement w/ 27 gal of 1/2# Phenoseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.09 bbls fresh water, pressured to 800 PSI, well held 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
CE0450	1	PUMP CHARGE	1500.00	
CE0000	20 mi	MILEAGE	143.00	
CE0711	min	for mileage	160.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2503.00	
		-49%	1226.47	
		subtotal		1276.53
CC5840	95 sks	50% Portland cement	1282.50	
CC5965	360 #	Gel	108.00	
CC6079	48 #	Phenoseal	64.80	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1500.30	
		-49%	735.15	
		subtotal		765.15
		8%		
		SALES TAX		61.21
		ESTIMATED TOTAL		2102.89
				4123.32

Revin 3737

AUTHORIZATION No Co Rep 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 fo