



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-3
 Sec. 5 Twp. 17 Rng. 22
 Miami County
 FSL: 3655 FEL: 2475
 API: 15-121-31028
 Start: 07/20/15
 End: 07/21/15

Phone: (785) 979-9493

(913) 963-9127

Fax: (785) 883-2305

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
8	Soil & Clay	8	
13	Lime	21	
10	Shale	31	
19	Lime	50	
10	Shale	60	
1	Lime	61	
11	Shale	72	
20	Lime	92	
94	Shale	188	
18	Lime	206	
5	Shale	211	
3	Lime	214	
9	Shale	223	
1	Lime	224	
10	Shale	234	
5	Lime	239	
36	Shale	275	
9	Lime	284	
1	Shale	285	
3	Lime	288	
16	Shale	304	
11	Lime	315	
3	Shale	318	
12	Lime	330	
12	Shale	342	
19	Lime	361	Oil show
2	Shale	363	
16	Lime	379	Base of the Kansas City / Hertha
24	Shale	403	
5	Sand	408	Grey, some gas
2	Broken Sand	410	Brown sand & shale, ok bleed, some gas
3	Oil Sand	413	Grey & brown, ok bleed, some gas

1	Broken Sand	414	Mainly shale, few thin sand laminations, no bleed
11	Silty Shale	425	
123	Shale	548	
8	Lime	556	Oil show
8	Shale	564	
2	Lime	566	
25	Shale	591	
3	Lime	594	
8	Shale	602	
13	Lime	615	
7	Shale	622	
2	Lime	624	
7	Shale	631	
3	Lime	634	
12	Shale	646	
2	Shale	648	
4	Lime	652	
13	Shale	665	
1	Silty Shale	666	
2	Broken Sand	668	20% brown sand, 80% shale, light bleed
2	Broken Sand	670	40% brown sand, 60% shale, light bleed
4	Oil Sand	674	Brown sand, few thin shale laminations, good bleed, gassy
1	Oil Sand	675	Brown sand, thin lime streak, good bleed
2	Oil Sand	677	Brown sand, good bleed
2	Broken Sand	679	50% brown sand, 50% shale, good bleed
1	Silty Shale	680	
1	Broken Sand	681	5% brown sand, 95% shale, minimal oil show
1	Broken Sand	682	80% brown sand, 20% shale, good bleed
1	Broken Sand	683	50% brown sand, 50% shale, ok bleed
1	Shale	684	
1	Silty Shale	685	
59	Shale	744	
3	Silty Shale	747	
3	Shale	750	TD

Drilled an 11" hole to 22.1'
Drilled a 5 5/8" hole to 750'

07/20/15 set 22.1' of 7" surface casing, cemented with 8 sacks of cement.

07/21/15 chip sampled Upper Squirrel zone.

07/21/15 set 750' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,
1 float-shoe, and baffle.
Baffle set at 710'.

Best perforation zone: 670'-678', possibly 681'-683' (C.C.H.)



CONSOLIDATED
Oil Well Services, LLC

3599
3517

TICKET NUMBER 49723
LOCATION Ottawa, KS
FOREMAN Carey Kennedy

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8678

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/21/15	3635	Hart # TW-3	NES	17	22	MI
CUSTOMER Hart Oil Inc			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS PO Box 250			729	CarKen	✓ Safety Meeting	
CITY STATE ZIP CODE Paola KS 66071			417	KenCar	✓	
			804	Ala Mad	✓	
			369	Mickha	✓	

JOB TYPE Logging HOLE SIZE 5 1/8" HOLE DEPTH 750' CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 740' DRILL PIPE _____ TUBING baffle - 710' OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 4.11 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safety machine, established circulation, mixed & pumped 200 # Gel followed by 5 lbs fresh water, mixed & pumped 99 # 50/50 Pozblend cement w/ 2% gel & 1/2 # Phenacal for st. cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.11 bbls fresh water, pressured to 800' PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

[Handwritten signature]

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1,500.00	
CE0002	20 mi	MILEAGE	143.00	
CE0711	min	ten mileage	600.00	
WE0853	2 hrs	80 Vac	200.00	
		Trucks	2503.00	
		- 49%	1226.47	
		Subtotal		1276.53
CC5840	99 #s	50/50 Pozblend cement	1336.50	
CC5965	3106 #	Gel	109.80	
CC10079	50 #	Phenacal	67.50	
CP81710	1	2 1/2" rubber plug	45.00	
		materials	1558.80	
		- 49%	763.81	
		Subtotal		794.99
		8%		
		SALES TAX		63.61
		ESTIMATED TOTAL		2135.14

5123

Rev'n 3737

AUTHORIZATION No Co Rep TITLE _____ DATE (4/18/16.50)

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.