



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 #: 13

Sec. 5 Twp. 17 Rng. 22

Miami County

FSL: 3820 FEL: 2310

API: 15-121-31037

Start: 06/29/15

End: 06/30/15

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	
11	Broken Lime	18	
10	Shale	28	
21	Lime	49	
7	Shale	56	
2	Lime	58	
11	Shale	69	
17	Lime	86	
22	Shale	108	
2	Lime	110	
75	Shale	185	
18	Lime	203	
6	Shale	209	
3	Lime	212	
9	Shale	221	
1	Lime	222	
10	Shale	232	
5	Lime	237	
36	Shale	273	
13	Lime	286	
16	Shale	302	
11	Lime	313	Oil show
2	Shale	315	
13	Lime	328	
7	Shale	335	
13	Lime	348	
15	Shale	363	
4	Lime	367	
2	Shale	369	
8	Lime	377	Base of the Kansas City / Hertha
23	Shale	400	
1	Silty Shale	401	

Hart #13

13	Broken Sand	414	60% shale, 40% grey sand, minimal oil show, gassy
6	Broken Sand	420	30% green sand, 70% shale, gassy, ok bleed
2	Silty Shale	422	
121	Shale	543	
1	Lime	544	
4	Shale	548	
10	Lime	558	Oil show
4	Shale	562	
2	Lime	564	
17	Shale	581	
1	Coal	582	
6	Shale	588	
5	Lime	593	
16	Shale	609	
2	Lime	611	
18	Shale	629	
1	Lime	630	
16	Shale	646	
3	Lime	649	
4	Shale	653	
5	Lime	658	
4	Shale	662	
3	Silty Shale	665	
2.5	Broken Sand	667.5	15% brown sand, 85% shale, light bleed
.5	Lime	668	
2	Broken Sand	670	90% brown sand, 10% shale, ok bleed
5.5	Oil Sand	675.5	Brown sand, good bleed
1.5	Lime	677	
1.5	Oil Sand	678.5	Brown sand, good bleed
1.5	Shale	680	
.5	Broken Sand	680.5	40% brown sand (hard), 60% shale, good bleed, gassy
1.5	Shale	682	
.5	Broken Sand	682.5	50% brown sand, 50% shale, good bleed
7.5	Silty Shale	690	
41	Shale	731	
1	Lime & Shells	732	
25	Shale	757	TD

Drilled an 11" hole to 22.5'
Drilled a 5 5/8" hole to 757'

06/29/15 set 22.5' of 7" surface casing, cemented with 8 sacks of cement.

06/30/15 cored upper Squirrel zone.

06/30/15 set 747' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,
1 float-shoe, and baffle.
Baffle set at 716'.

Best perforation zone: 668.5-678.5' (CCH).

Core Times

<u>Depth</u>	<u>Minutes</u>	<u>Seconds</u>
664-665	1	02
666	1	07
667	1	09
668	1	01
669	1	04
670	1	02
671		58
672		56
673		59
674		58
675	1	00
676	2	06
677	1	53
678	1	01
679	1	04
680		58
681	1	07
682	1	02
683-684	1	09



CONSOLIDATED
OIL FIELD SERVICES, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8876

FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 49694
LOCATION Ottawa, KS
FOREMAN Cory Kennedy

3390
3313

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/30/15	3635	Hart #13	NES	17	22	ML
CUSTOMER Hart Oil Inc.						
MAILING ADDRESS PO Box 250						
CITY Paola	STATE KS	ZIP CODE 66041				
			TRUCK #	DRIVER	TRUCK #	DRIVER
			729	Geo Ken	✓ Safety	Marketing
			467	Ken Car	✓	
			558	Jim Ore	✓	
			369	Mick Haa	✓	

JOB TYPE Logging HOLE SIZE 5 5/8" HOLE DEPTH 757' CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 247' DRILL PIPE TUBING baffle - 710' OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/ek 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 3 bbls fresh water mixed + pumped 100 # 59.50 Pozblend
Cement w/ 2% gel + 1/2 # Phenoseal per spec, cement to surface, flushed
2 1/2" clear, pumped 2 1/2" rubber plug to baffle w/ 4.11 bbls fresh water,
pressured to 800 PSI, 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	
CE0002	20 mi	MILEAGE	113.00	
CE0711	min	for mileage	660.00	
WF0853	2 hrs	80 Vac	200.00	
		trucks	2503.00	
		-49%	1226.47	
		subtotal		1276.53
CC5840	100 sts	59.50 Pozblend	1350.00	
CC5965	368 #	Gel	110.40	
CC6079	50 #	Phenoseal	67.50	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1572.90	
		-49%	770.72	
		subtotal		802.18
		7.65%	SALES TAX	161.37
		ESTIMATED TOTAL		2140.08

Ravin 3737

AUTHORIZATION [Signature]

TITLE [Signature]

DATE (4/9/27)

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.