



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 #: 11
 Sec. 5 Twp. 17 Rng. 22
 Miami County
 FSL: 3160 FEL: 2640
 API: 15-121-31035
 Start: 06/23/15
 End: 06/24/15

Phone: (785) 979-9493

(913) 963-9127

Fax: (785) 883-2305

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
4	Soil & Clay	4	
3	Lime	7	
5	Shale	12	
12	Lime	24	
11	Shale	35	
20	Lime	55	
8	Shale	63	
2	Lime	65	
9	Shale	74	
1	Lime	75	
2	Shale	77	
18	Lime	95	
21	Shale	116	
1	Lime	117	
75	Shale	192	
17	Lime	209	
18	Shale	227	
16	Lime	243	
35	Shale	278	
14	Lime	292	
17	Shale	309	
11	Lime	320	
3	Shale	323	
11	Lime	334	
8	Shale	342	
23	Lime	365	Oil show
4	Shale	369	
7	Lime	376	
1	Shale	377	
6	Lime	383	Base of the Kansas City / Hertha
24	Shale	407	
1	Broken Sand	408	

1	Sand	409	Green, gassy, light oil odor
2	Sand	411	Light brown & green, light oil show, gassy
1	Silty Shale	412	
1	Broken Sand	413	40% sand, 60% shale, no bleed
2	Sand	415	Minimal oil show, gassy
2	Broken Sand	417	50% sand, 50% shale, light bleed
9	Broken Sand	426	Brown & green
3	Silty Shale	429	
64	Shale	493	
1	Limy Sand	494	White, no show, no odor
58	Shale	552	
9	Lime	561	
6	Shale	567	
1	Lime	568	
20	Shale	588	
1	Coal	589	
5	Shale	594	
7	Lime	601	Thin shale laminations
14	Shale	615	
3	Lime	618	Brown, no oil
2	Shale	620	
1	Coal	621	
13	Shale	634	
3	Lime	637	
14	Shale	651	Red bed
4	Lime	655	
9	Shale	664	
1	Lime	665	
4	Shale	669	
3.5	Silty Shale	672.5	
3	Broken Sand	675.5	40% brown oil sand, 60% shale, good bleed, gassy
.5	Oil Sand	676	Brown, good bleed
1.5	Broken Sand	677.5	30% brown sand, 70% shale, ok bleed, gassy
1	Oil Sand	678.5	Brown Sand, good bleed
3.5	Broken Sand	682	60% brown sand, 40% shale, good bleed, gassy
2.5	Broken Sand	684.5	25% brown sand, 75% shale, light bleed
1.5	Shale	686	
.5	Lime	686.5	
67.5	Shale	754	TD

Drilled an 11" hole to 20.7'
Drilled a 5 5/8" hole to 754'

06/24/15 set 20.7' of 7" surface casing, cemented with 8 sacks of cement.

06/25/15 cored upper Squirrel zone.

06/25/15 set 744' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,
1 float-shoe, and baffle.

Baffle set at 712'.

Best perforation zone: 672.5-682.5 (CCH)

Core Times

<u>Depth</u>	<u>Minutes</u>	<u>Seconds</u>
671-672	2	02
673	2	27
674	1	05
675	1	22
676	2	01
677	1	01
678	1	02
679		58
680		59
681	1	01
682	1	10
683	1	25
684	1	30
685	1	42
686	1	08
687	1	03
688	1	06
689	1	03
690-691	1	04



CONSOLIDATED
Oil Well Services, LLC

3274
3199

TICKET NUMBER 51041
LOCATION Atkins, KS
FOREMAN Casey 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
6/24/15	3635	Hart # 11	NE 5	17	22	MI
CUSTOMER Nick & Connie Hart/Hart Oil Co.			TRUCK #			
MAILING ADDRESS PO Box 250			DRIVER		TRUCK #	
CITY Paola			DRIVER		TRUCK #	
STATE KS			DRIVER		TRUCK #	
ZIP CODE 66071			DRIVER		TRUCK #	
JOB TYPE <u>log string</u>			HOLE SIZE <u>5 5/8"</u>		HOLE DEPTH <u>754'</u>	
CASING DEPTH <u>744'</u>			DRILL PIPE		TUBING <u>battle - 712'</u>	
SLURRY WEIGHT			SLURRY VOL		WATER gal/ek	
DISPLACEMENT <u>4.12 bbls</u>			DISPLACEMENT PSI		MIX PSI	
REMARKS:			CEMENT LEFT in CASING <u>30'</u>		RATE <u>4 bpm</u>	

REMARKS: held safety meeting, established circulation, mixed & pumped 92#
Gel followed by 5 bbls fresh water, mixed & pumped 92' sks 59/50
Portland cement w/ 2 1/2 gal of 14 # Floccol per sf, cement to
surface. Pushed pump clean, removed 2 1/2" rubber plug to casing battle w/
4.12 bbls fresh water pressured to 800 PSI, 2 1/2" rubber plug 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	143.00	
CE0711	mi in	for mileage	660.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2503.00	
		- 49 %	1226.47	
		subtotal		1276.53
4715	92 sks	59/50 Portland cement	1242.00	
	355 #	Gel	106.50	
	23 #	Floccol	46.00	
		2 1/2" rubber plug	45.00	
		materials	1439.50	
		- 49 %	705.36	
		subtotal		734.14
		7.65%	SALES TAX	56.16
		ESTIMATED TOTAL		2066.84

Ravin 9737

AUTHORIZATION

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TITLE

DATE

(4052.62)

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.