



*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 #: 15  
 Sec. 5 Twp. 17 Rng. 22  
 Miami County  
 FSL: 3160 FEL: 2310  
 API: 15-121-31039  
 Start: 06/24/15  
 End: 06/25/15

Phone: (785) 979-9493

(913) 963-9127

Fax: (785) 883-2305

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
5	Soil	5	
2	Broken Lime	7	
6	Shale	13	
13	Lime	26	
10	Shale	36	
20	Lime	56	
20	Shale	76	
17	Lime	93	
36	Shale	129	
2	Lime	131	
54	Shale	185	
27	Lime	212	
17	Shale	229	
1	Lime	230	
10	Shale	240	
6	Lime	246	
35	Shale	281	
13	Lime	294	
16	Shale	310	
25	Lime	335	Oil show
9	Shale	346	
21	Lime	367	
3	Shale	370	
5	Lime	375	
3	Shale	378	
6	Lime	384	Base of the Kansas City / Hertha
24	Shale	408	
1	Silty Shale	409	
3	Broken Sand	412	80% green sand, 20% shale, light gas odor
2	Silty Shale	414	
2	Broken Sand	417	60% green & grey sand, 40% shale, ok bleed
5	Broken Sand	422	65% grey sand, 35% shale, ok bleed

68	Shale	490	
1	Silty Shale	491	
5	Sand	496	Grey/green, no show, no odor
57	Shale	553	
9	Lime	562	Oil show
37	Shale	599	
6	Lime	605	
15	Shale	620	
1	Lime	621	
2	Shale	623	
1	Coal	624	
6	Shale	630	
1	Lime	631	
5	Shale	636	
8	Lime	644	Thin shale laminations
8	Shale	652	
5	Lime	657	
7	Shale	664	
4	Lime	668	
4	Shale	672	
3	Silty Shale	675	
4	Broken Sand	679	50% brown sand, gassy, good bleed
1.5	Oil Sand	680.5	Brown, good bleed, gassy
.5	Broken Sand	681	75% brown sand, 25% shale, gassy, good bleed
2.5	Broken Sand	683.5	25% brown sand, 75% shale, ok bleed
1.5	Broken Sand	685	80% brown sand, 20% shale, good bleed
2.5	Broken Sand	687.5	25% brown sand, 75% shale, ok bleed
4.5	Silty Shale	692	
56	Shale	748	
4	Silty Shale	752	
5	Shale	757	TD

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

06/25/15 set 22.5' of 7" surface casing, cemented with 8 sacks of cement.

06/26/15 cored upper Squirrel zone.

06/26/15 set 756' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,  
1 float-shoe, and baffle.  
Baffle set at 728'.

Best perforation zone: 675-685' (WMR)

**Core Times**

<u>Depth</u>	<u>Minutes</u>	<u>Seconds</u>
674-675	1	05
676	1	04
677	1	18
678	1	22
679	1	37
680	1	21
681	1	04
682	1	09
683	1	28
684	1	39
685	1	50
686	1	25
687	1	15
688	1	23
689	1	25
690	1	30
691	1	37
692	1	26
693	1	27
694-695	1	15



**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

3272  
3193

TICKET NUMBER 49688  
LOCATION Chanute, KS  
FOREMAN Casey Kennedy

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/25/15	31635	Hart #15	NE 5	17	22	<del>Cherokee</del> MI
CUSTOMER Vick + Connie Hart / Hart Oil Inc			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS PO Box 250			729 Coker ✓ Safety Meeting			
CITY STATE ZIP CODE Paola KS 66071			467 Kei Car ✓			
			558 Bob Minton ✓			
			675 Kei Det ✓			

JOB TYPE 1 way string HOLE SIZE 5 5/8" HOLE DEPTH 757' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 757' DRILL PIPE \_\_\_\_\_ TUBING baffle OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 28'  
 DISPLACEMENT 4.22 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety meeting, checked casing tally w/ wireline, established circulation, mixed + pumped 200 # Gel followed by 5 bbls fresh water, mixed + pumped sks 80% Pozblend cement w/ 2 1/2 gal + 1/2 # Phenoseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.22 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	ton mileage	160.00	
WE0853	2 hr	80 Vac	200.00	
		Trucks	2503.00	
		- 49 %	1226.47	
		subtotal		1276.53
CC5840	98 sks	50/50 Pozblend cement	1323.00	
CC5965	365 #	Gel	109.50	
CC6079	49 #	Phenoseal	66.15	
PR176	1	2 1/2" rubber plug	45.00	
		materials	1543.65	
		- 49 %	756.39	
		subtotal		787.26
		7.65%	SALES TAX	60.23
		ESTIMATED TOTAL		2124.02
				(4164.74)

4770

Revin 3737

AUTHORIZATION [Signature] 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 form.