



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 #8
Sec. 5 Twp. 17 Rng. 22
Miami County
FSL: 4420 FEL: 2640
API: 15-121-31032
Start: 07/22/15
End: 07/23/15

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	
10	Lime	15	
11	Shale	26	
22	Lime	48	
21	Shale	69	
18	Lime	87	
17	Shale	105	
13	Lime	118	
59	Shale	177	
19	Lime	196	
19	Shale	215	
1	Lime	216	
8	Shale	224	
6	Lime	230	
37	Shale	267	
14	Lime	281	
15	Shale	296	
29	Lime	325	
4	Shale	329	
24	Lime	353	
3	Shale	356	
15	Lime	371	Base of the Kansas City / Hertha
34	Shale	405	
2	Silty Shale	407	
2	Sand	409	Grey sand, light oil show, making water
7	Silty Shale	416	
124	Shale	540	
7	Lime	547	
7	Shale	554	
2	Lime	556	
24	Shale	580	
8	Lime	588	

Hart #8

13	Shale	601	
3	Lime	604	
16	Shale	620	
2	Lime	622	Laminated with shale
32	Shale	654	
2	Silty Shale	656	
.5	Broken Sand	656.5	10% brown sand, 90% shale, light bleed
1	Silty Shale	657.5	
2	Broken Sand	659.5	25% brown sand, 75% shale, good bleed, gassy
4	Oil Sand	663.5	Brown sand, good bleed
.5	Limey Sand	664	White & brown, minimal oil show
2	Oil Sand	666	Brown, good bleed
1	Broken Sand	667	90% brown sand, 10% shale, good bleed
3	Broken Sand	670	20% brown sand, 80% shale, ok bleed, gassy
3.5	Shale	673.5	
1	Broken Sand	674.5	20% dark brown sand, 80% shale, ok bleed
47.5	Shale	722	
1	Lime & Shells	723	
11	Shale	734	
10	Silty Shale	744	
2	Shale	746	TD

Drilled an 11" hole to 22.4'
Drilled a 5 5/8" hole to 746'

07/22/15 set 22.4' of 7" surface casing, cemented with 8 sacks of cement.

07/23/15 cored Upper Squirrel zone.

07/23/15 set 736' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,
1 float-shoe, and baffle.
Baffle set at 704'.

Best perforation zone: 658.5'-670' (C.C.H.)

Core Times

<u>Depth</u>	<u>Minutes</u>	<u>Seconds</u>
656-657		51
658	1	08
659	1	00
660	1	30
661	1	43
662	1	10
663	1	26
664	2	35
665		50
666		54
667		46
668		50
669		53
670		58
671	1	12
672	1	23
673	1	09
674	1	06
675-676	1	01



FIELD TICKET & TREATMENT REPORT

TICKET NUMBER 49735
LOCATION Ottawa, KS
FOREMAN Casa Kennedy

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/23/15	3635	Hart # 8	NE 5	17	22	M1
CUSTOMER Hart Oil Inc.						
MAILING ADDRESS PO Box 250						
CITY Paola		STATE KS	ZIP CODE 66071			

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Casey	✓ Safety	Meeting
467	Kei Car	✓	
804	Arlynd	✓	
319	Mikha	✓	

JOB TYPE <u>Logging</u>	HOLE SIZE <u>5 5/8"</u>	HOLE DEPTH <u>746'</u>	CASING SIZE & WEIGHT <u>2 7/8" EUE</u>
CASING DEPTH <u>730'</u>	DRILL PIPE	TUBING <u>6 5/8" - 704'</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT In CASING <u>30'</u>
DISPLACEMENT <u>4.08 lbs</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>4 bbl/sk</u>

REMARKS: held safety, unsealing, established circulation, mixed & pumped 200# Gal
followed by 5 bbls fresh water, mixed & pumped 9.5 sks 50/50 Portland
cement w/ 2 p gal + 1/2 # Phenoxal per sk, cement to surface,
flushed pump clean, pumped 2 1/2 " rubber plug to bottle w/ 4.08 bbls fresh
water, pressured to 800 PSI, released pressure, shot in casing.

[illegible]

Ravin 9737

AUTHORIZATION

TITLE

DATE _____

**ESTIMATED
TOTAL**

2102.91

DATE 4/23/38

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.