



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-5
Sec. 5 Twp. 17 Rng. 22
Miami County
FSL: 4420 FEL: 2145
API: 15-121-31030
Start: 07/01/15
End: 07/02/15

Phone: (785) 979-9493

(913) 963-9127

Fax: (785) 883-2305

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
6	Soil & Clay	6	
12	Broken Lime	18	
13	Shale	31	
21	Lime	52	
17	Shale	69	
24	Lime	93	
15	Shale	108	
4	Sand	112	Grey, oil show
18	Shale	130	Laminated thin grey sand seems
57	Shale	187	
17	Lime	204	
7	Shale	211	
1	Lime	212	
11	Shale	223	
1	Lime	224	
9	Shale	233	
5	Lime	238	
37	Shale	275	
10	Lime	285	
1	Shale	286	
2	Lime	288	
6	Shale	294	
36	Lime	330	
11	Shale	341	
19	Lime	360	Light oil show
5	Shale	365	
8	Lime	373	
1	Shale	374	
7	Lime	381	Base of the Kansas City / Hertha
23	Shale	404	
9	Broken Sand	413	70% grey sand, 30% shale, occasional light bleed, some gas

Hart #IW-5

9	Broken Sand	422	90% shale, 10% laminated grey sand, minimal oil show, no gas
90	Shale	512	
1	Sand	513	Grey, no show, no odor
2	Shale	515	
7	Broken Sand	522	15% grey sand, 85% shale, gassy
3	Broken Sand	525	40% brown sand, 60% shale, good bleed
26	Shale	551	
8	Lime	559	
8	Shale	567	
2	Lime	569	
15	Shale	584	
1	Coal	585	
8	Shale	593	
4	Lime	597	
16	Shale	613	
3	Lime	616	Brown, no show
30	Shale	646	
4	Lime	650	
16	Shale	666	
2	Silty Shale	668	
2	Broken Sand	670	75% brown sand, 25% shale, good bleed, gassy
1	Broken Sand	671	90% brown sand, 10% shale, good bleed
1	Limey Sand	672	50% lime, 50% brown sand, ok bleed
1	Broken Sand	673	50% shale, 50% brown sand, ok bleed
7	Oil Sand	680	Brown, good bleed, few very thin shale laminations
1	Broken Sand	681	75% brown sand, 25% shale, good bleed
1	Broken Sand	682	25% brown sand, 75% shale, light bleed
8	Silty Shale	690	
32	Shale	722	
1	Lime & Shells	723	
26	Shale	749	TD

Drilled an 11" hole to 22.4'
Drilled a 5 5/8" hole to 749'

07/01/15 set 22.4' of 7" surface casing, cemented with 9 sacks of cement.

07/02/15 chip sampled upper Squirrel zone.

07/02/15 set 734' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,
1 float-shoe, and baffle.

Baffle set at 707'.

Best perforation zone: 669'-681' (CCH).



3480
3/11/11

TICKET NUMBER 49707
 LOCATION Ottawa KS
 FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720
 820-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-2-15	3635	Nart # IW-5	5	17	22	MI
CUSTOMER			TRUCK #			
Nart Oil Co.			712	Fred Mader		
MAILING ADDRESS			495	Har Ber		
P.O. Box 250			675	Ki Day		
CITY			555	Bru Bir		
Paola						
STATE			ZIP CODE			
KS			66071			

JOB TYPE Logging HOLE SIZE _____ HOLE DEPTH 749' CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 734' DRILL PIPE Baffle in TUBING @ 707' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 27' + Plug
 DISPLACEMENT 4.11 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold safety meeting. Establish pump rate. Mix + Pump 100% Gal
Flush. Mix + Pump 900 SKS Per Blend IA Cement 2% Gel 1/2"
Plug Seal/sk. Cement to surface. Flush pump + lines clean.
Displace 2 1/2" Rubber plug to Baffle in casing. Pressure to 800 PSI.
Release pressure to set flood valve. Shut in casing.

14 B Energy

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495 1500 ⁰⁰	
CE0002	20 mi	MILEAGE	495 143 ⁰⁰	
CE0711	Minimum	Ten Miles Delivery	558 660 ⁰⁰	
WE0853	1 1/2 hr	80 BBL Vac Truck	675 150 ⁰⁰	
		Sub Total	2453 ⁰⁰	
		Less 49%	-1201 ⁰⁰	1251 ⁰⁰
CC5840	90 SKS	Per Blend IA Cement	1215 ⁰⁰	
CC5965	251 ⁰⁰	Bentonite Gel	75 ⁰⁰	
CC6079	45 ⁰⁰	Pheno Gel	60 ⁰⁰	
CP8176	1	2 1/2" Rubber Plug	45 ⁰⁰	
		Sub Total	1396 ⁰⁰	
		Less 49%	-684 ⁰⁰	712 ⁰⁰
		8%		
		SALES TAX		56.96
		ESTIMATED TOTAL		2019.98

Rev'n 3737

AUTHORIZATION

TITLE

DATE 3/9/11

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.

