



Fueling American Prosperity™

Oil and Gas Well Drilling

3137 Virginia Rd, Wellsville KS 66092

Owners: Clay Hughes
Isaac Burbank

Phone: (785) 979-9493
(913) 963-9127

Fax: (785) 883-2305

Well Log

DE & TZ LLC

Knabe Well #: I-26

Sec. 31 Twp. 14 Rng. 22

FSL: 3250 FEL: 590

API: 15-091-24414

Start: 03/18/15

End: 03/23/15

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
10	Soil & Clay	10	
14	Sandstone	24	
1	Lime	25	
13	Sandstone	38	
48	Shale	86	
4	Lime	90	
3	Shale	93	
13	Lime	106	
9	Shale	115	
9	Lime	124	Makes water
3	Shale	127	
1	Lime	128	
2	Shale	130	
18	Lime	148	
14	Shale	162	Red bed
3	Lime	165	
4	Shale	169	
30	Lime	199	
14	Shale	213	
2	Lime	215	
11	Shale	226	
5	Lime	231	
10	Shale	241	
24	Lime	265	
15	Shale	280	
9	Lime	289	
17	Shale	306	
7	Lime	313	
44	Shale	357	
2	Lime	359	
9	Shale	368	
9	Lime	377	
2	Shale	379	

14	Lime	393	
6	Shale	399	
25	Lime	424	
3	Shale	427	
3	Lime	430	Base of Kansas City / Hertha
31	Shale	461	
4	Broken Sand	465	Grey sand & shale, no odor
5	Sand	470	Grey, no odor
71	Shale	541	
5	Silty Shale	546	
2	Broken Sand	548	90% shale, 10% brown sand, light bleed
56	Shale	604	
4	Lime	608	
4	Shale	612	
1	Lime	613	
9	Shale	622	
7	Lime	629	
16	Shale	645	
3	Lime	648	
13	Shale	661	
3	Lime	664	
22	Shale	686	Red bed
6	Lime	692	
8	Shale	700	
3	Broken Sand	703	90% shaley sand, 10% brown sand, light oil odor, minimal gas
4	Silty Shale	707	
35	Shale	742	
1	Lime & Shells	743	
11	Shale	754	
1	Lime & Shells	755	
9	Shale	764	
1	Broken Sand	765	Limey sand & shale, no show, no odor
2	Silty Shale	767	
25	Shale	792	
1	Coal	793	
2	Shale	795	
2	Lime	797	
31	Shale	828	
3	Silty Shale	831	
32	Shale	863	
1	Coal	864	
16	Shale	880	
1	Lime	881	
3	Shale	884	
2	Limey Sand	886	

Knabe I-26

1	Oil Sand	887	Brown, few thin lime seems, good bleed
1	Broken Sand	888	80% brown sand, 20% silty shale, good bleed
1	Broken Sand	889	White sand & shale, minimal bleed
1	Broken Sand	890	60% white sand, 40% brown sand, ok bleed
4	Oil Sand	894	Soft brown sand, good bleed
5	Broken Sand	899	70% black & brown sand, 25% laminated shale & white sand, good bleed
7	Silty Shale	906	
4	Shale	910	
1	Coal	911	
64	Shale	975	TD

Drilled an 11" hole to 45'
 Drilled a 5 5/8" hole to 975'

03/18/15 set 45' of 7" surface casing, cemented with 18 sacks of cement.

03/23/15 chip sampled Bartlesville zone.

03/23/15 set 960' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp, 1 float-shoe, and baffle.
 Baffle set at 932'.



REMIT TO
 Consolidated Oil Well Services, LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884
 Chanute,KS 66720
 620/431-9210,1-800/467-8676
 Fax 620/431-0012

Invoice Invoice# 803785

Invoice Date: 03/30/15 Terms: C.O.D. Page 1

D.E. EXPLORATION
 P.O. BOX 128 KNABE # I-26
 WELLSVILLE KS 66092
 USA
 7858834057

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.000	1,085.0000	10.000	976.50
5406	Mileage Charge	30.000	4.2000	10.000	113.40
5402	Casing Footage	960.000	0.0000	0.000	0.00
5407	Min. Bulk Delivery Charge	1.000	368.0000	10.000	331.20
5502C	80 Vacuum Truck Cement	2.000	100.0000	10.000	180.00
1124	Poz Cement Mix	124.000	11.5000	30.000	998.20
1118B	Premium Gel / Bentonite	308.000	0.2200	30.000	47.43
1111	Sodium Chloride (Granulated Salt)	260.000	0.3900	30.000	70.98
1110A	Kol Seal (50# BAG)	620.000	0.4600	30.000	199.64
4402	2 1/2 Rubber Plug	1.000	29.5000	0.000	29.50
1401	HE 100 Polymer	0.500	47.2500	0.000	23.63

Subtotal 3,712.49
 Discounted Amount 742.01
 SubTotal After Discount 2,970.48

Amount Due 3,860.40 If paid after 03/30/15

Tax: 104.76
 Total: 3,075.24



CONSOLIDATED
Oil Well Services, LLC

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

2489
2424
INVOICE # 803785

TICKET NUMBER 50819
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3/23/15	2355	Knabe # I-26	NE 31	14	22	FR
CUSTOMER DE + TZ c/o DE Exploration			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS PO Box 128			729 / Cas Ken ✓ Safety Meeting			
CITY STATE ZIP CODE Wellsville KS 66092			467 / Kei Car ✓			
			548 / Dan Wha ✓			
			3109 / Mik Haa ✓			

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 975' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 960' DRILL PIPE _____ TUBING baffle - 932' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 28'
 DISPLACEMENT 5.39 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 5.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal Polymer, circulated for 1 hr to condition hole, mixed & pumped 100 # gel followed by 5 bbls fresh water, mixed & pumped 124 sks 5/50 Pozmix cement w/ 2% gel, 5% salt & 5 # Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 5.39 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
5401	1	PUMP CHARGE	1085.00	
5406	30 mi	MILEAGE	126.00	
5402	960'	casing footage		
5407	minimum	ten Mileage	368.00	
5502C	2 hrs	80 Vac	200.00	
		trucks	1779.00	
		-10%	177.90	
		subtotal		1601.10
1124	124 sks	5/50 Pozmix cement	1426.00	
1118B	308 #	Gel	67.76	
1111	260 #	Salt	101.40	
1110A	620 #	Kalseal	285.20	
		materials	1880.36	
		-30%	564.11	
		subtotal		1316.25
4402	1	2 1/2" rubber plug		29.50
1401	1/2 gal	Polymer		23.63
		7.65%		104.76
		SALES TAX		3075.24
		ESTIMATED TOTAL		3860.40

AUTHORIZATION Baran Zeller 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.