



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

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## Well Log

DE & TZ LLC  
Knabe Well #: I-28  
Sec. 31 Twp. 14 Rng. 22  
FSL: 2870 FEL: 170  
API: 15-091-24416  
Start: 03/23/15  
End: 03/24/15

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
30	Soil & Clay	30	
40	Shale	70	
3	Lime	73	
7	Shale	80	
15	Lime	95	
7	Shale	102	
9	Lime	111	Making fresh water
6	Shale	117	
14	Lime	131	
21	Shale	152	
27	Lime	179	Making a lot of water, slightly salty
17	Shale	196	
13	Lime	209	
18	Shale	227	
20	Lime	247	
14	Shale	261	
9	Lime	270	
16	Shale	286	
7	Lime	293	
4	Shale	297	
7	Lime	304	
33	Shale	337	
2	Lime	339	
10	Shale	349	
26	Lime	375	
10	Shale	385	
20	Lime	405	Light oil show
4	Shale	409	
3	Lime	412	
4	Shale	416	
6	Lime	422	Base of Kansas City / Hertha
29	Shale	451	
3	Broken Sand	454	Grey sand and shale, no show

4	Sand	458	Grey, no show
71	Shale	529	
4	Broken Sand	533	60% brown sand, 40% shale, ok bleed
59	Shale	592	
4	Lime	596	
4	Shale	600	
1	Lime	601	
5	Shale	606	
1	Coal	607	
6	Shale	613	
6	Lime	619	
15	Shale	634	
3	Lime	637	
11	Shale	648	
2	Lime	650	
1	Shale	651	
2	Lime	653	
14	Shale	667	Red bed
1	Coal	668	
3	Shale	671	
1	Lime	672	
4	Shale	676	
2	Lime	678	
8	Shale	686	
6	Silty Shale	692	
65	Shale	757	
4	Broken sand	761	Brown sand & shale, no oil
10	Shale	771	
3	Lime	774	
30	Shale	804	
2	Silty Shale	806	
1	Oil Sand	807	Brown, good bleed
1	Broken Sand	808	Brown sand & shale, good bleed
2	Silty Shale	810	
55	Shale	865	
1	Limey Sand	866	White lime & black sand, ok bleed
1	Oil Sand	867	Black, good bleed
2	Grey Sand	869	No show
5	Oil Sand	874	Black, good bleed, few thin white sand seems
1	Silty Shale	875	
2	Broken Sand	877	80% black oil sand, 20% silty shale, good bleed
2	Silty Shale	879	
2	Broken Sand	881	Laminated shale, very thin bleeding seems, light bleed
2	Silty shale	883	
73	Shale	956	TD

Drilled an 11" hole to 45'  
Drilled a 5 5/8" hole to 956'

03/23/15 set 45' of 7" surface casing, cemented with 14 sacks of cement.

03/24/15 chip sampled Bartlesville zone.

03/24/15 set 941' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp,  
1 float-shoe, and baffle.

Baffle set at 912'.



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# 803787

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

D.E. EXPLORATION

P.O. BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

KNABE #I-28

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	941.000	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	131.000	11.5000	30.000	1,054.55
1118B	Premium Gel / Bentonite	320.000	0.2200	30.000	49.28
1111	Sodium Chloride (Granulated Salt)	264.000	0.3900	30.000	72.07
1110A	Kol Seal (50# BAG)	655.000	0.4600	30.000	210.91
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 3,813.29  
 Discounted Amount 772.25  
 SubTotal After Discount 3,041.04

Amount Due 3,963.31 If paid after 03/30/15

Tax: 106.20  
 Total: 3,147.24





**CONSOLIDATED**  
Oil Well Services, LLC

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

Invoice #80378 <sup>2491</sup>/<sub>2424</sub>

TICKET NUMBER 50899  
LOCATION Ottawa KS  
FOREMAN Fred Madar

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-24-15	3244	Kuabo # I-28	NE 31	14	22	JO
CUSTOMER DE+JZ LLC % DE Exploration			TRUCK #			
MAILING ADDRESS P.O. Box 128			DRIVER			
CITY Wellsville		STATE KS	ZIP CODE 66092		TRUCK #	
			DRIVER			
			712 / Fre Mad			
			495 / Har Bec			
			675 / Kei Del			
			548 / Dam Wha			

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 956 CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 941 DRILL PIPE Baffle in TUBING @ 912 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 29' + Plug  
 DISPLACEMENT 5.3 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Hold safety meeting. Establish pump rate. Pump 1/2 Gal HE-100 Polymer. Circulate well to condition hole. Mix & Pump 100# Gel Flush. Mix & Pump 131 SKS 50/50 Poz Mix Cement 270 Gal 5% Salt 5# Kol 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 float valve. Shut in casing.

H B Energy

Fred Madar

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5406	1	PUMP CHARGE	495	1085.00
5406	30 mi	MILEAGE	495	126.00
5402	941	Casing Footage	N/C	
5407	Mileage	Ten Miles	548	368.00
5502C	2 hrs	80 BBL Vac Truck	675	200.00
		Sub Total		1779.00
		Less - 10%		-177.90
				1601.10
18 #24	131 SKS	50/50 Poz Mix Cement	1506.50	
116B	320#	Premium Gel	70.40	
1111	264#	Granulated Salt	102.96	
1110A	655#	Kol Seal	301.30	
		Material	1981.16	
		Less 30%	-594.35	
		Total		1386.81
4402	1	2 1/2" Rubber Plug		29.50
1401	1/2 Gal	HE-100 Polymer		23.63
			7.3758	106.20
				ESTIMATED TOTAL
				3147.24

Revin 3737 AUTHORIZATION Jim Tracy TITLE \_\_\_\_\_ DATE 3/24/15

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.