



Fueling American Prosperity™

# Oil and Gas Well Drilling

3137 Virginia Rd, Wellsville KS 66092

Owners: Clay Hughes  
Isaac Burbank

## Well Log

DE & TZ LLC  
Knabe Well #: 22  
Sec. 31 Twp. 14 Rng. 22  
FSL: 3250 FEL: 1020  
API: 15-091-24408  
Start: 04/01/15  
End: 04/02/15

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	
37	Sandstone	42	Red & grey, making little water
5	Limey Sandstone	47	White & grey, very hard
7	Sandstone	54	Making water
48	Shale	102	
3	Lime	105	
2	Shale	107	
17	Lime	124	
6	Shale	130	
9	Lime	139	
8	Shale	147	
12	Lime	159	
1	Shale	160	
6	Lime	166	
23	Shale	189	
26	Lime	215	
20	Shale	235	
10	Lime	245	
17	Shale	262	
21	Lime	283	Making some water
13	Shale	296	
10	Lime	306	
19	Shale	325	
6	Lime	331	
6	Shale	337	
6	Lime	343	
33	Shale	376	
2	Lime	378	
10	Shale	388	
8	Lime	396	
2	Shale	398	
17	Lime	415	
5	Shale	420	

24	Lime	444	
5	Shale	449	
3	Lime	452	
4	Shale	456	
7	Lime	463	Base of Kansas City / Hertha
24	Shale	487	
5	Broken Sand	492	Grey sand & shale, no odor, no oil
1	Sand	493	Hard limey sand, no show, no odor
10	Sand	503	Soft course grey sand, no odor, no oil
131	Shale	634	
5	Lime	639	
15	Shale	654	
4	Lime	658	
5	Broken Lime	663	
15	Shale	678	
2	Lime	680	Brown
12	Shale	692	
6	Lime	698	
26	Shale	724	Red bed
2	Lime	726	
8	Shale	734	
6	Silty Shale	740	
34	Shale	774	
1	Lime & Shells	775	
11	Shale	786	
1	Lime & Shells	787	
10	Shale	797	
6	Broken Sand	803	Light brown sand & shale, no oil, no gas
2	Silty Shale	805	
19	Shale	824	
1	Coal	825	
5	Shale	830	
1	Lime	831	
4	Shale	835	
4	Silty Shale	839	
2	Sand	841	White & green, no show
16	Shale	857	
2	Silty Shale	859	
1	Sand	860	White
2	Silty Shale	862	
34	Shale	896	
1	Coal	897	
25	Shale	922	Core point
2	Limey Sand	924	Black, good bleed
1	Lime	925	
5	Broken Sand	930	Black sand & shale, ok bleed

.5	Lime	930.5	
1	Broken Sand	931.5	Black sand & shale, light bleed
.5	Lime	932	
8	Silty shale	940	
52	Shale	995	TD

Drilled an 11" hole to 68'  
Drilled a 5 5/8" hole to 995'

04/01/15 set 68' of 7" surface casing, cemented with 21 sacks of cement.

04/02/15 cored Bartlesville zone.

04/02/15 set 980' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp, 1 float-shoe, 1 seating nipple, and baffle.

Baffle set at 949'

Seating nipple set at 917.4'

**Core Times**

	<u>Minutes</u>	<u>Seconds</u>
922-923	4	36
923	4	25
924	1	20
925	4	16
926	2	20
927		53
928	1	11
929	1	14
930	1	50
931	1	50
932	3	21
933	2	47
934		48
935		56
936		51
937	2	01
938	1	42
939	1	59
940		30
941-942		42



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# 803938

Invoice Date: 04/09/15 Terms: C.O.D. Page 1

D.E. EXPLORATION  
 P.O. BOX 128 KNABE 22  
 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	980.000	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	120.000	11.5000	30.000	966.00
1118B	Premium Gel / Bentonite	302.000	0.2200	30.000	46.51
1111	Sodium Chloride (Granulated Salt)	232.000	0.3900	30.000	63.34
1110A	Kol Seal (50# BAG)	600.000	0.4600	30.000	193.20
4402	2 1/2 Rubber Plug	1.000	29.5000	0.000	29.50

Subtotal 3,621.42  
 Discounted Amount 721.78  
 SubTotal After Discount 2,899.64

Amount Due 3,757.30 If paid after 04/09/15

Tax: 95.77  
 Total: 2,995.42



**CONSOLIDATED**  
Oil Well Services, LLC

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

*2611*  
*2544*  
Invoice # *803930*

TICKET NUMBER 50923  
LOCATION Ottawa  
FOREMAN Alan Mader

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-2-15	2355	Knabe 22	NE 31	14	22	JD
CUSTOMER DE-72 % DE Exploration			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. box 128			730 / Ala Mader Safety Meet			
CITY STATE ZIP CODE			795 / Har Bee			
Wellsville KS 66092			675 / Kei Det			
JOB TYPE <u>long string</u>			809 / Gar Moo			
HOLE SIZE <u>3 5/8</u>		HOLE DEPTH <u>995</u>		CASING SIZE & WEIGHT <u>2 7/8</u>		
CASING DEPTH <u>980</u>		DRILL PIPE _____		TUBING _____ OTHER <u>6' 949</u>		
SLURRY WEIGHT _____		SLURRY VOL _____		WATER gal/sk _____		CEMENT LEFT in CASING <u>yes</u>
DISPLACEMENT <u>5.5</u>		DISPLACEMENT PSI <u>800</u>		MIX PSI <u>200</u>		RATE <u>4 bpm</u>

REMARKS: Held meeting. Established rate. Mixed & pumped 100 # gel followed by 120 sk 50/50 cement plus 2 bags 5% salt & 5# balseal per sack. Circulated cement. Flushed pump. Pumped plug to baffle. Well held 800 PSI. Set float.

H-B Mitchell Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085.00
5406	30	MILEAGE	495	126.00
5402	980'	Casing footage	495	—
5407	min	ton miles	884	368.00
5502L	2	80 vac	675	200.00
		equipment		1779.00
		less 10% -		1779.00
				1601.10
1124	120	50/50 cement	1380.00	
1118B	302 #	gel	66.44	
1111	232 #	salt	90.48	
1110A	600 #	150 seal	276.00	
		materials	1812.92	
		less 30%	543.88	1269.04
4402	1	2 1/2 plug		29.50
			2.375	SALES TAX 95.77
				ESTIMATED TOTAL 2995.42

Ravin 3737 **Completed** AUTHORIZATION Bryan Miller TITLE \_\_\_\_\_ DATE 3757.30

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.