



# LEIS OIL SERVICES

1410 150th Rd. • Yates Center, Kansas 66783 • (620) 212-0752



<b>Operator License #:</b> 30345	<b>API #:</b> 15-207-28736-00-00
<b>Operator:</b> Piqua Petro, Inc.	<b>Lease:</b> Wingrave
<b>Address:</b> 1331 Xylan Rd Piqua, KS 66761	<b>Well #:</b> 72-13
<b>Phone:</b> (620) 433-0099	<b>Spud Date:</b> 11-21-13 <b>Completed:</b> 11-25-13
<b>Contractor License:</b> 34036	<b>Location:</b> NW-SW-NE-NW of 16-24-16E
<b>T.D. :</b> 1081 <b>T.D. of Pipe:</b> 1078 <b>Size:</b> 2.875"	825 <b>Feet From</b> South
<b>Surface Pipe Size:</b> 7" <b>Depth:</b> 42'	1550 <b>Feet From</b> East
<b>Kind of Well:</b> Oil	<b>County:</b> Woodson

## LOG

Thickness	Strata	From	To	Thickness	Strata	From	To
10	Soil/Clay	0	10	15	Shale	932	947
4	Gravel/Sand	10	14	5	Lime	947	952
132	Shale	14	146	8	Shale	952	960
47	Lime	146	193	2	Black Shale	960	962
5	Shale	193	198	6	Shale	962	968
136	Lime	198	334	14	Oil Sand	968	982
16	Shale	334	350	29	Shale	982	1011
66	Lime	350	416	1	Lime	1011	1012
61	Shale	416	477	3	Shale	1012	1015
80	Lime	477	557	2	Lime Streaks	1015	1017
8	Shale/Black Shale	557	565	5	Oil Sand	1017	1022
22	Lime	565	587	59	Shale	1022	1081
4	Black Shale	587	591				
25	Lime	591	616				
164	Shale	616	780				
4	Lime	780	784				
21	Shale	784	805				
10	Lime	805	815				
58	Shale	815	873				
3	Lime	873	876				
4	Shale	876	880				
4	Lime	880	884				
6	Shale	884	890				
4	Lime	890	894				
12	Shale	894	906				
4	Lime	906	910				
2	Black Shale	910	912		<b>T.D.</b>		<b>1081</b>
15	Shale	912	927		<b>T.D. of Pipe</b>		<b>1078</b>
5	Lime	927	932				



Leis Oil Services, LLC

1410 150th Rd  
Yates Center, KS 66783

# Invoice

Date	Invoice #
1/21/2014	1019

<b>Bill To</b>
Piqua Petro, Inc. 1331 Xylan Rd Piqua, KS 66761

P.O. No.	Terms	Project
	Due on receipt	

Quantity	Description	Rate	Amount
1,081	Wingrave 72-13	6.25	6,756.25
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
2	Clearing trees for locations 72 and 77	45.00	90.00
1,082	Wingrave 76-13	6.25	6,762.50
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
1,070	Wingrave 77-13	6.25	6,687.50
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
1,232	Conger 3-13	6.25	7,700.00
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
1,277	Light 6-13	6.25	7,981.25
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
1	Made crossing across slough to get to location.	45.00	45.00
1,282	Light 10-13	6.25	8,012.50
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
1,254	Woods Ellis 21-13	6.25	7,837.50
1	Bit charge for Mississippi	600.00	600.00
1	Drill Pit	100.00	100.00
8	Cement for Surface	11.60	92.80
1,242	Woods Ellis 23-13	6.25	7,762.50
1	Drill Pit	100.00	100.00
1	Bit Charge for Mississippi	600.00	600.00
1	Pulled Consolidated around the Wingrave and smoothed ruts after 76-13.	65.00	65.00





**CONSOLIDATED**  
Oil Field Services, LLC

264385

TICKET NUMBER 45250  
LOCATION Eureka  
FOREMAN Steve Neal

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

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-26-13	4950	Wingrave 72-13				Woodson
CUSTOMER Pigua Petroleum			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 1331 Xylan Rd			485 Alan			
CITY STATE ZIP CODE Pigua KS 66761			667 Colby			
			637 Chris			

JOB TYPE LS HOLE SIZE \_\_\_\_\_ HOLE DEPTH 1081' CASING SIZE & WEIGHT \_\_\_\_\_  
CASING DEPTH 1028' DRILL PIPE \_\_\_\_\_ TUBING 2 7/8 OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 6 1/4 bbls DISPLACEMENT PSI 600\* MIX PSI Bump Plug 1200\* RATE \_\_\_\_\_

REMARKS: Soft Meeting: Rig up to 2 7/8 Tubing. Break circulation w/ Fresh water. Pump 300\* Gel Flush \* 5 bbls water spacer. Mix 140sks 60/40 Poz mix cement w/ 5\* Kal-seal, 4% Gel & 1% CaCl2. Shut down. Wash out pump & lines. Stuff 2 plugs. Displace w/ 6 1/4 bbls Fresh water. Final pumping pressure 600\* Bump Plug 1200\*. Shut well in by 500\*. Good Cement Returns to surface 6 bbls to pit. Job Complete Rig down

Thank You

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1085.00	1085.00
5406	40	MILEAGE	4.20	168.00
1171	140sks	60/40 Poz mix Cement	13.18	1845.30
1110A	700*	Kal Seal 5* per/sk	.46	322.00
111813	480*	Gel 4%	.22	105.60
1102	120*	CaCl2 1%	.78	93.60
111813	300*	Gel Flush	.22	66.00
5407	2.02 Ton	Ton mileage Bulk Truck	177.00	368.00
4402	2	2 7/8 Rubber Plug	29.50	59.00
5302C	3hrs	Sobbi Vacuum Truck	90.00	270.00
1123	2500 gallons	CITY WATER	17.30/1000	43.25
<b>completed</b>			Subtotal	4423.65
			SALES TAX	181.22
			ESTIMATED TOTAL	4606.87

Flavin 3737

AUTHORIZATION Called By Matt Leis TITLE Driller DATE \_\_\_\_\_

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





**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 4, Chanute, KS 66720  
620-431-9210 or 800-467-8676

1st well 11

TICKET NUMBER 57544  
FIELD TICKET REF # 48882  
LOCATION Thayer  
FOREMAN Brett Busby

**TREATMENT REPORT**  
**FRAC & ACID**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-19-13		Wingrave 72-13	16	24S	16E	WO
CUSTOMER Pigua Petro Inc			* Safety meeting attendees			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			476	Josh	6791102	Junior
STATE			490	Donnie	T90	Cody
ZIP CODE			482	Mark	T91	George
			582	Harry R.		
			424	Wes		
			618T95	Joe		

WELL DATA	
CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 steel	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
967-82 (32)	Squirrel (5)
1016-25 (19)	

TYPE OF TREATMENT
Acid spot 7 frac
CHEMICALS
KCL SUB Biocide - Breaker
Acid - Inhibitor - Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPANT PPG	SAND / STAGE	PSI
PAID	25	20			BREAKDOWN 2300
16-30		20		300 #	START PRESSURE
12-20		20			END PRESSURE
12-20				3700 #	BALL OFF PRESS
12-20 (10) + (5) Bioballs		20-17			ROCK SALT PRESS
12-20 + (3) + (2)		17-12			ISIP 800
12-20 150* comm. to existing prod.		18		2000 #	5 MIN
12-20 (10) + (2)		8-12			10 MIN
12-20		12-15		1500 #	15 MIN
12-20					MIN RATE
FLUSH CASING 10	15				MAX RATE
Release balls to T.D.			TOTAL	7,500 #	DISPLACEMENT 6.0
OVERFLUSH 10	20		SAND		
TOTAL BBL'S	240				

REMARKS: \* hold safety-procedure meeting before fracs  
Spotted 100 gal -15% HCL acid on perfs  
Blended 250 gal raw HCL acid OFF w/ball drops  
& treating PSI  
Location 9:30AM - 10:15 PM 50 miles

AUTHORIZATION customer unavailable B.B. TITLE \_\_\_\_\_ DATE 12-19-13

Terms and Conditions are printed on reverse side.