



LEIS OIL SERVICES



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

Operator License #: 30345	API #: 15-207-28802-00-00
Operator: Piqua Petro, Inc.	Lease: Wingrave
Address: 1331 Xylan Rd Piqua, KS 66761	Well #: 77-13
Phone: (620) 433-0099	Spud Date: 12-3-13 Completed: 12-4-13
Contractor License: 34036	Location: NE-NE-SE-NW of 16-24-16E
T.D. : 1070 T.D. of Pipe: 1066 Size: 2.875"	3795 Feet From South
Surface Pipe Size: 7" Depth: 42'	2805 Feet From East
Kind of Well: Oil	County: Woodson

LOG

Thickness	Strata	From	To	Thickness	Strata	From	To
6	Soil/Clay	0	6	9	Shale	952	961
7	Sand	6	13	10	Oil Sand	961	971
134	Shale	13	147	31	Shale	971	1002
27	Lime	147	174	1	Lime Streak	1002	1003
3	Shale	174	177	3	Shale	1003	1006
231	Lime	177	408	2	Lime	1003	1005
17	Shale	408	425	11	Oil Sand	1008	1019
2	Lime	425	427	51	Sandy Shale	1019	1070
40	Shale	427	467				
86	Lime	467	553				
6	Shale/Black Shale	553	559				
23	Lime	559	582				
3	Black Shale	582	585				
25	Lime	585	610				
190	Shale	610	800				
10	Lime	800	810				
60	Shale	810	870				
3	Lime	870	873				
4	Shale	873	877				
16	Lime	877	893				
9	Shale	893	902				
3	Lime	902	905				
2	Black Shale	905	907				
12	Shale	907	919				
6	Lime	919	925				
15	Shale	925	940				
5	Lime	940	945		T.D.		1070
4	Shale	945	949		T.D. of Pipe		1066
3	Black Shale	949	952				



Leis Oil Services, LLC

1410 150th Rd
Yates Center, KS 66783

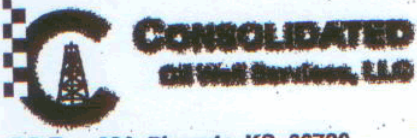
Invoice

Date	Invoice #
1/21/2014	1019

Bill To
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



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

264608

TICKET NUMBER 45801
LOCATION Eureka
FOREMAN Steve Mead

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-6-13	4950	Wingrave 77-13				Woodson
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Piqua Petroleum			445	Chris B		
MAILING ADDRESS			611	Tony		
1331 Xylan Rd			637	Jim		
CITY	STATE	ZIP CODE				
Piqua	Ks	66761				

JOB TYPE 4/5 0 HOLE SIZE _____ HOLE DEPTH 1080' CASING SIZE & WEIGHT _____
 CASING DEPTH 1066' DRILL PIPE _____ TUBING 2 3/8 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 674 bbls DISPLACEMENT PSI 500* MIX-PER Bump Plug 1000* RATE _____

REMARKS: Safety Meeting: Rig up to 2 3/8 Tubing. Break Circulation w/ Fresh Water. Pump 300* Gel Flush + 5 bbls water spacer. Mix 140 sks 60/40 Pozmix Cement w/ 5* Kol-Seal per/sk 4% Gel + 1% CaCl2. Shut down. Wash out Pump + Lines. STUFF 2 plugs. Displace w/ 674 bbls Fresh water. Final Pumping Pressure 500* Bump Plug 1000* Shut well in 500*. Good cement Returns to surface 6 bbl TAPIT. Tub 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
1131	140 sks	60/40 Pozmix Cement	13.18	1845.20
1110A	700*	Kol-Seal 5* per/sk	.46	322.00
1118B	480*	Gel 4%	.22	105.60
1102	180*	CaCl2 1%	.28	93.60
1118B	300*	Gel Flush	.22	66.00
5407	6.0270n	Tan Mileage Bulk Truck	mic	368.00
4402	2	2 3/8 Rubber Plug	29.50	59.00
5502C	3 hrs	80 bbl vacuum Trucks	90.00	270.00
1123	3000 gallon	CITY WATER	17.39/1000	51.90
			SubTOTAL	4434.30
			7.13% SALES TAX	181.84
			ESTIMATED TOTAL	41616.14

SCANNED

Revin 3737

AUTHORIZATION _____ 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 for



CONSOLIDATED
Oil Well Services, LLC

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

3RD well

TICKET NUMBER 57546
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 77-13	16	245	16E	WO
CUSTOMER Pigua Petroleum Inc			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			476	Josh	618T95	Joe
CITY			490	Donnie		
STATE			482	Mark		
ZIP CODE			582	Larry R		
			424	Wes		
			618T91	George		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE <u>2 1/8 BEUE</u>	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
<u>960-974 (30)</u>	<u>Squiccel</u>
<u>1007-1022 (32)</u>	

TYPE OF TREATMENT

Acid spot + Frac

CHEMICALS

KCL SUB-Bioxide - Breaker
Acid-Inhibitor - Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI
PAID	20	20			BREAKDOWN <u>2275</u>
16-30		20		300#	START PRESSURE
12-20 <u>BIOBA-5</u>		20		2700#	END PRESSURE
12-20 <u>(10)+(5)+(5)</u>		20			BALL OFF PRESS
12-20		20		3,000#	ROCK SALT PRESS
12-20 <u>(5)+(5)</u>		18		3,000#	ISIP <u>600</u>
12-20		18		3,000#	5 MIN
12-20 <u>(7)+(3)+(5)</u>		18-12			10 MIN
12-20 <u>+ (5)</u>		12-15			15 MIN
12-20 <u>(5)</u>		15		3,000#	MIN RATE
FLUSH CASING	10	15			MAX RATE
Release balls to T.D.			TOTAL	12,000	DISPLACEMENT <u>6.0</u>
OVERFLUSH	10	20	SAND		
TOTAL BBL'S	255				

REMARKS:

Spotted 100 gal - 15% HCL acid on perfs
Blend 200 gal raw HCL acid off w/ ball drops
& for treating psil

Location 11:30 AM - 12:45 PM 50.1 miles

AUTHORIZATION customer unavailable TITLE _____ DATE 12-19-13

Terms and Conditions are printed on reverse side.