



# LEIS OIL SERVICES

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



<b>Operator License #:</b> 30345	<b>API #:</b> 15-207-28586-00-00
<b>Operator:</b> Piqua Petro Inc.	<b>Lease:</b> Light
<b>Address:</b> 1331 Xylan Rd Piqua, KS 66761	<b>Well #:</b> 6-13
<b>Phone:</b> (620) 433-0099	<b>Spud Date:</b> 12-12-13 <b>Completed:</b> 12-16-13
<b>Contractor License:</b> 34036	<b>Location:</b> NE-SE-SE-NE of 1-24S-14E
<b>T.D. :</b> 1277 <b>T.D. of Pipe:</b> 1273	3090 <b>Feet From</b> South
<b>Surface Pipe Size:</b> 7" <b>Depth:</b> 40'	170 <b>Feet From</b> East
<b>Kind of Well:</b> Oil	<b>County:</b> Woodson

## LOG

Thickness	Strata	From	To	Thickness	Strata	From	To
5	Soil	0	5	19	Lime	787	806
13	Lime	5	18	3	Black Shale	806	809
21	Shale	18	39	28	Lime	809	837
8	Lime	39	47	147	Shale	837	984
27	Shale	47	74	4	Lime	984	988
42	Lime	74	116	20	Shale	988	1008
18	Sand	116	134	10	Lime	1008	1018
11	Lime	134	145	70	Shale	1018	1088
52	Shale	145	197	5	Lime	1088	1093
4	Lime	197	201	17	Shale	1093	1110
5	Shale	201	206	4	Lime	1110	1114
4	Lime	206	210	2	Black Shale	1114	1116
163	Shale	210	373	11	Shale	1116	1127
21	Lime	373	394	5	Lime	1127	1132
13	Shale	394	407	15	Shale	1132	1147
17	Lime	407	424	2	Lime	1147	1149
4	Shale	424	428	4	Shale	1149	1153
19	Lime	428	447	4	Black Shale	1153	1157
7	Shale	447	454	3	Lime	1157	1160
30	Lime	454	484	2	Black Shale	1160	1162
16	Shale	484	500	3	Shale	1162	1165
77	Lime	500	577	12	Oil Sand	1165	1177
17	Shale	577	594	31	Shale	1177	1208
90	Lime	594	684	1	Lime	1208	1209
25	Shale	684	709	2	Shale	1209	1211
3	Lime	709	712	1	Lime	1211	1212
47	Shale	712	759	8	Oil Sand	1212	1220
62	Lime	759	781	57	Shale	1220	1277
6	Shale/Black Shale	781	787				



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 Well Services, LLC

264852

TICKET NUMBER 45809

LOCATION Eureka

FOREMAN Steve Mearl

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
12-17-12	4950	Light # 6-13				Wagoner
CUSTOMER Pigna Petroleum			TRUCK #			
MAILING ADDRESS 1732 Xylan Rd			DRIVER			
CITY Pigna			TRUCK #			
STATE Ks			DRIVER			
ZIP CODE 66761			TRUCK #			
			DRIVER			

JOB TYPE L/S Q HOLE SIZE \_\_\_\_\_ HOLE DEPTH 1277' CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH 1273 DRILL PIPE \_\_\_\_\_ TUBING 2 3/8 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 7.376 bbls DISPLACEMENT PSI 700+ Bump PSI plus 1200+ RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 2 3/8 Tubing. Breaks circulation w/ Fresh water. Mix 300# Gel flush + 5 bbls water spacer. Mix 160 SKS 60/40 w/ 5# Kal-Seal 4% Gel + 1% CaCl2. Shut down washout pump + lines. Staff 2 plugs. Displace w/ 7.376 bbls Freshwater. Final pumping Pressure 700+ Bump plug 1200+ Good Cement Return to Surface. 7 bbl to D.T. Shut well in 500'.  
 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	-	MILEAGE <u>N/K</u>	-	-
1131	160 SKS	60/40 Pozmix Cement	13.18	2108.80
1110A	800#	Kal-Seal 5# per/sk	.46	368.00
1118B	550#	Gel 4%	.22	121.00
1102	135#	CaCl2 1%	.78	105.30
1118B	300#	Gel flush	.22	66.00
5407A	6.88 ton	Ton mileage Bulk	1.41	388.03
5502c	3 hrs	8000 Vacuum Truck	90.00	270.00
1123	2500 gallons	Circulator	17.29/1000	43.23
41402	2	2 3/8 Rubber <input checked="" type="checkbox"/> completed	29.50	59.00
		Sub Total		4614.38
		SALES TAX	2.15	205.30
		ESTIMATED TOTAL		4819.68

win 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 form.



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

1st well

TICKET NUMBER 57555  
FIELD TICKET REF # 48955  
LOCATION Thayer  
FOREMAN Beth Busby

**TREATMENT REPORT  
FRAC & ACID**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-30-13		Light 6-13	1	24S	14E	WO
CUSTOMER Pigua Petro. Inc			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS			476 Josh 489790 Cody			
CITY STATE ZIP CODE			490 Donnie			
			478 <del>Mark</del> Matt			
			521 Mark			
			618795 <del>Josh</del> Joe			
			6797102 Junior			

**WELL DATA**

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 X 4.5	BACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
1167-1183 (34)	Squiggles
1211-28 (36)	

**TYPE OF TREATMENT**  
Acidspt + Frac w/acid O/F

**CHEMICALS**  
Kelsub-Biocide - Breaker  
Acid-Inhibitor - StimOil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI
PAD	25	20			BREAKDOWN 1325
11-30		20	5-1.0	500#	START PRESSURE
12-20		20	1.0		END PRESSURE
12-20			2.0	4000#	BALL OFF PRESS
12-20 (20) + (5)			.5		ROCK SALT PRESS
12-20			1.0	4,000	ISIP 600
12-20 (5) + (10)			2.0	<del>5000</del> #	5 MIN
12-20 (7) + (10)			1.5	<del>4500</del> #	10 MIN
12-20			1.0		15 MIN
12-20			2.0	4,000#	MIN RATE
FLUSH CASING 20					MAX RATE
Release balls to T.D.			TOTAL	14,000#	DISPLACEMENT <del>17.5</del>
OVERFLUSH 10			SAND		7.2
TOTAL BBL'S	340				

REMARKS:  
Spotted 100 gal - 15% HCL acid on perfs loaded 75 ball  
Blend 250 gal raw HCL acid O/F dropped 62 in. frac

Location 3:15 PM - 4:45 PM 50 miles

AUTHORIZATION customer unavailable TITLE B.B. DATE 12-30-13

Terms and Conditions are printed on reverse side.