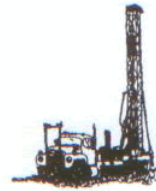




LEIS OIL SERVICES

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



Operator License #: 30345	API #: 15-001-30924-00-00
Operator: Piqua Petro, Inc.	Lease: Shannon
Address: 1331 Xylan Rd Piqua, KS 66761	Well #: 3-14
Phone: (620) 433-0099	Spud Date: 3-4-14 Completed: 3-5-14
Contractor License: 34036	Location: NW-NE-NW-NW of 14-25-17E
T.D. : 885 T.D. of Pipe: 880 Size: 2.875"	180 Feet From North
Surface Pipe Size: 7" Depth: 22'	800 Feet From West
Kind of Well: Oil	County: Allen

LOG

Thickness	Strata	From	To	Thickness	Strata	From	To
4	Soil/Clay	0	4	22	Shale	740	762
16	Broken Lime	4	20	4	Lime	762	766
128	Shale	20	148	5	Shale	766	771
15	Lime	148	163	7	Lime	771	778
7	Shale	163	170	4	Shale	778	782
66	Lime	170	236	3	Black Shale	782	785
49	Shale	236	285	4	Shale	785	789
10	Lime	285	295	4	Lime	789	793
9	Shale	295	304	26	Shale	793	819
7	Lime	304	311	1	Lime	819	820
6	Shale	311	317	9	Oil Sand	820	829
36	Lime	317	353	56	Shale	829	885
9	Shale	353	362				
19	Lime	362	381				
5	Black Shale	381	386				
27	Lime	386	413				
3	Shale	413	416				
30	Lime	416	446				
180	Shale	446	626				
8	Lime	626	634				
64	Shale	634	698				
4	Lime	698	702				
3	Shale	702	705				
4	Lime	705	709				
15	Shale	709	724				
4	Lime	724	728				
5	Shale	728	733		T.D.		885
5	Lime	733	738		T.D. of Pipe		880
2	Black Shale	738	740				

Leis Oil Services, LLC

1410 150th Rd
Yates Center, KS 66783

Invoice

Date	Invoice #
3/22/2014	1020

Bill To
Piqua Petro, Inc. 1331 Xylan Rd Piqua, KS 66761

P.O. No.	Terms	Project
	Due on receipt	

Quantity	Description	Rate	Amount
	Drilling- Hammond E 66-14	6.25	6,950.00
1	Drill Pits	100.00	100.00
10	Cement for Surface	11.60	116.00
	Drilling- Hammond E 67-14	6.25	6,931.20
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
	Drilling- Hammond E 68-14	6.25	6,937.50
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
	Drilling- Hammond E 69-14	6.25	6,893.75
1	Drill Pit	100.00	100.00
10	Cement for Surface	11.60	116.00
	Drilling- Collins Bennett 15-14	6.25	5,550.00
1	Drill Pit	100.00	100.00
8	Cement for Surface	11.60	92.80
	Drilling- Collins Bennett 16-14	6.25	7,562.50
1	Mississippi Drill Charge	600.00	600.00
1	Drill Pit	100.00	100.00
8	Cement for Surface	11.60	92.80
	Drilling- Collins Bennett 17-14	6.25	5,518.75
1	Drill Pit	100.00	100.00
8	Cement for Surface	11.60	92.80
	Drilling- Collins Bennett 18-14	6.25	5,556.25
1	Drill Pit	100.00	100.00
8	Cement for Surface	11.60	92.80
	Drilling- Shannon 3-14	6.25	5,531.25
1	Drill Pit	100.00	100.00
8	Cement for Surface	11.60	92.80
	Drilling- Shannon 4-14	6.25	7,543.75
1	Mississippi Drill Charge	600.00	600.00
1	Drill Pit	100.00	100.00
8	Cement for Surface	11.60	92.80
	Drilling- Shannon 5-14	6.25	5,481.25
1	Drill Pit	100.00	100.00
Total			



CONSOLIDATED
Oil Well Services, LLC

266316

TICKET NUMBER 45857

LOCATION Fureka

FOREMAN Steve Mead

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
3-2-14	4950	3-14 Shannon				Allen
CUSTOMER <u>Pigna Petroleum</u>			TRUCK #			
MAILING ADDRESS <u>1331 xylan Rd</u>			DRIVER			
CITY <u>Pigna</u>			TRUCK #			
STATE <u>Ks</u>			DRIVER			
ZIP CODE <u>66761</u>			TRUCK #			
			DRIVER			

JOB TYPE <u>L/S</u>	HOLE SIZE	HOLE DEPTH <u>885'</u>	CASING SIZE & WEIGHT
CASING DEPTH <u>879'</u>	DRILL PIPE	TUBING <u>2 7/8</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING
DISPLACEMENT <u>566ls</u>	DISPLACEMENT PSI <u>400*</u>	^{3 in H₂O} MIX PSI <u>plug 1000*</u>	RATE

REMARKS: Safety Meeting. Rig up to 2 7/8 tubing. Break circulation w/ 566ls Fresh water. Pump 200* Gel Flush + 566l water spacer. Mix 120 sks 60/40 100% cement w/ 5% Kal-Seal 4% Gel + 1% Cacl₂. Shut down wash out pump lines. STUFF 2 plugs. Displace by 566ls Freshwater. Final pumping pressure 400*. Pump plug 1000*. Shut well in 500*. Good cement return to surface 566l 709IT. Job Complete Rig down.

Thank you

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54101	1	PUMP CHARGE	1	1085.00 ✓
54206	45	MILEAGE	4.20	189.00 ✓
1131	120sk	60/40/100% mix Cement	13.18	1581.60 ✓
1110A	600*	Kal Seal 5% per/sk	.46	276.00 ✓
111813	400*	Gel 4%	.22	88.00 ✓
1102	100*	Cacl ₂ 1%	.78	78.00 ✓
1118B	200*	Gel flush	.22	44.00 ✓
5407	5.16 Ton	Ton Mileage Bulk Truck	m/c	368.00 ✓
5502C	3 hrs	80 bbl vacuum Truck	90.00	270.00 ✓
1123	2500 gallon	City water	17.30/1000	43.25 ✓
4402	2	2 7/8 Rubber plug	29.50	59.00 ✓
		Total 4842.42		4081.85
		30% 630.06		620.28
		Total 3622.36		3461.57
		(3622.36 cement + chem.) 7.40%		114.67
		ESTIMATED TOTAL		3576.24

completed

Ravin 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.



CONSOLIDATED
Oil Well Services, LLC

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

TICKET NUMBER 58047
FIELD TICKET REF # 49049
LOCATION Thayer
FOREMAN Brett Busby

**TREATMENT REPORT
FRAC & ACID**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-18-14		Shannon 3-14				AL
CUSTOMER						
Pigua Petro Inc.						
MAILING ADDRESS						
CITY STATE ZIP CODE						

TRUCK #	DRIVER	TRUCK #	DRIVER
476	Larry R	619T91	George
490	Cody		
482	Mark		
582	Matt		
493	Wes		
679T102	Junior		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE <u>2 7/8 8EUE</u>	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
<u>820-30 (2)</u>	<u>Squirrel</u>

TYPE OF TREATMENT
Acid spot + frac

CHEMICALS

<u>Kesub-Biocide - Breaker</u>
<u>Acid-Inhibitor - StimOil</u>

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	20			1350	BREAKDOWN 1600
16-30 sand		20	1.5-1.0	100#		START PRESSURE
12-20 sand		20	1.5			END PRESSURE
12-20 <u>Binoballs</u>		↓	2.0	3400#	1250	BALL OFF PRESS
12-20 <u>(6)+(4)</u>		↓	1.5		1650	ROCK SALT PRESS
12-20		20	1.0		1700	ISIP 650
12-20		20	2.0	2,000#		5 MIN
12-20 <u>(3)+(2)</u>		19-16	1.5		2350	10 MIN
12-20 <u>(15)</u>		16	1.0			15 MIN
12-20		17	2.0	2,000#		MIN RATE
FLUSH CASING	5	18			2000	MAX RATE
Release balls to T.D.			TOTAL	7500#		DISPLACEMENT 4.8
OVERFLUSH	10	20	SAND		1500	
TOTAL BBL'S	190					

REMARKS: * hold safety - procedure meeting before frac
 Spotted 75 gal -15% HCL acid on perfs
 Blend 150 gal RAW HCL acid OTF for treating psi + ball drops

Location 2:00AM - 10:00AM 35 miles

AUTHORIZATION [Signature] TITLE _____ DATE 3-18-14

Terms and Conditions are printed on reverse side.