



LEIS OIL SERVICES

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



Operator License #: 30345	API #: 15-207-28842-00-00
Operator: Piqua Petro, Inc.	Lease: Hammond E
Address: 1331 Xylan Rd Piqua, KS 66761	Well #: 69-14
Phone: (620) 433-0099	Spud Date: 2-17-14 Completed: 2-18-14
Contractor License: 34036	Location: NW-NW-SW-NE of 8-24-16E
T.D. : 1103 T.D. of Pipe: 1099 Size: 2.875"	1510 Feet From North
Surface Pipe Size: 7" Depth: 42'	2470 Feet From East
Kind of Well: Oil	County: Woodson

LOG

Thickness	Strata	From	To	Thickness	Strata	From	To
13	Soil/Clay	0	13	11	Shale	982	993
8	Lime	13	21	7	Broken Oil Sand	993	1000
170	Shale	21	191	18	Shale/Some Sand	1000	1018
38	Lime	191	229	41	Oil Sand	1018	1059
23	Shale	229	252	44	Shale	1059	1103
214	Lime	252	466				
13	Shale	466	479				
6	Lime	479	485				
36	Shale	485	521				
76	Lime	521	597				
8	Shale/Black Shale	597	605				
20	Lime	605	625				
5	Shale/Black Shale	625	630				
24	Lime	630	654				
161	Shale	654	815				
3	Lime	815	818				
23	Shale	818	841				
10	Lime	841	851				
52	Shale	851	903				
2	Lime	903	905				
4	Shale	905	909				
15	Lime	909	924				
12	Shale	924	936				
4	Lime	936	940				
3	Black Shale	940	943				
40	Shale	943	973				
5	Lime	973	978		T.D.		1103
2	Shale	978	980		T.D. of Pipe		1099
2	Black Shale	980	982				



PO Box 884, Chanute, KS 66720
320-431-9210 or 800-467-8676

266052

TICKET NUMBER 45853
LOCATION Eureka
FOREMAN Steve Mead

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-19-14	4950	Hammond 69-14				Woodson

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Pigua Petroleum	485	Jason Cooper	Chris AA	
	479	Seth		
	637	Jim		

MAILING ADDRESS	CITY	STATE	ZIP CODE
1331 Xylan Rd	Pigua	KS	66761

JOB TYPE LLS 0 HOLE SIZE _____ HOLE DEPTH 1105' CASING SIZE & WEIGHT _____
 CASING DEPTH 1099' DRILL PIPE _____ TUBING 2 3/4 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 6.40 bbls DISPLACEMENT PSI 300* ^{Bump} MIX PSI plug 1000* RATE _____

REMARKS: Safety Meeting. Rig up to 2 3/4 Break Circulation w/ 4 bbls Fresh water
via 300* Gel Flush + 5 bbls water spacer. Mix 145 sks 60/40 Poz mix Cement
Cement w/ 5* Kal-seal, 4% Gel, 1% CaCl2. Shut down wash out pump
lines. Staff 2 plugs. Displace w/ 6.40 bbls Fresh water. Final pumping
Pressure 300* Bump plug 1000*. Shut well in 500'. Circulate Cement
Returns to surface 6 bbl 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	145 sks	60/40 Poz mix Cement	13.18	1911.10 ✓
1110A	700*	Kal-seal 5* per sk	.46	322.00 ✓
111813	470*	Gel 4%	.22	103.40 ✓
1102	120*	CaCl2 1%	.78	93.60 ✓
111813	300*	Gel Flush	.22	66.00 ✓
5407	6.2375h	Ton Mileage Bulk Trucks	MIC	368.00 ✓
5502C	5 hrs	80 bbl Vacuum Trucks	90.00	450.00 ✓
1123	3000 gallon	CITY WATER	17.30/1000	51.90 ✓
4402	2	2 3/4 Rubber plug	29.50	59.00 ✓
		<input checked="" type="checkbox"/> completed		
			Subtotal	4678.00
		7.15%	SALES TAX	186.39 ✓
			ESTIMATED TOTAL	4864.39 ✓

vin 3737

AUTHORIZATION [Signature] TITLE Drilllog 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

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	6,931.25
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

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

1st well

TICKET NUMBER 58056
FIELD TICKET REF # 49034
LOCATION Thayer
FOREMAN Brett Busby

**TREATMENT REPORT
FRAC & ACID**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-5-14	4950	Hammond "E" 69-14	8	245	16E	WO
CUSTOMER Piqua Petroleum Inc		* Safety meeting attendees				
MAILING ADDRESS						
CITY	STATE					

TRUCK #	DRIVER	TRUCK #	DRIVER
476	Josh	489T90	Cody
490	Larry R	679T102	Jamor
482	Mark		
521	Eric		
424	Wes		
619T91	George		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE <u>2 7/8 SEUE</u>	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
<u>1037-58 (42)</u>	<u>Squirrel</u>

TYPE OF TREATMENT
Acid spot + frac w/acid OTF

CHEMICALS
KELSUB - Biocide + Breaker
Acid - Inhibitor - StimOil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	20				BREAKDOWN 2100
16-30 sand		20	1.5-1.0	3000#		START PRESSURE
12-20 sand		20	1.0			END PRESSURE
12-20		20	2.0	3700#		BALL OFF PRESS
12-20 (10) + (5)		1	1.5-1.0			ROCK SALT PRESS
12-20		1	1.0			ISIP 575
12-20		20	2.0	3,000#		5 MIN
12-20 (6) + (5)		18	1.5			10 MIN
12-20 + (3)		18-17	1.0			15 MIN
12-20 + (1) (30)		17	2.0	3,000#		MIN RATE
FLUSH CASTING	10	18				MAX RATE
Release balls to T.D.			TOTAL	10,000#		DISPLACEMENT 6.2
OVERFLUSH	10	20	SAND			
TOTAL	225					

REMARKS: * hold safety - procedure meeting before frac
 Spotted 75 gal - 15% HCL acid on perfs
 Blend 100 gal raw HCL acid OTF
 location 9:30 AM - 10:30 AM 50 miles

AUTHORIZATION [Signature] TITLE _____ DATE 3-5-14

Terms and Conditions are printed on reverse side.