



LEIS OIL SERVICES



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

Operator License #: 30345	API #: 15-207-28843-00-00
Operator: Piqua Petro, Inc.	Lease: Hammond E
Address: 1331 Xylan Rd Piqua, KS 66761	Well #: 66-14 66-14
Phone: (620) 433-0099	Spud Date: 2-19-14 Completed: 2-21-14
Contractor License: 34036	Location: NW-NW-SW-NE of 8-24-16E
T.D. : 1112 T.D. of Pipe: 1107 Size: 2.875"	500 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
16	Soil/Clay	0	16	2	Black Shale	990	992
13	Broken Lime	16	29	11	Shale	992	1003
164	Shale	29	193	10	Shale/Some Sand	1003	1013
53	Lime	193	246	5	Broken Sand/Odor	1013	1018
13	Shale	246	259	5	Oil Sand	1018	1023
207	Lime	259	466	5	Broken Sand/Odor	1023	1028
14	Shale	466	480	32	Oil Sand	1028	1060
4	Lime	480	484	1	Lime	1060	1061
43	Shale	484	527	51	Shale	1061	1112
79	Lime	527	606				
9	Shale/Black Shale	606	615				
20	Lime	615	635				
5	Shale/Black Shale	635	640				
19	Lime	640	659				
166	Shale	659	825				
2	Lime	825	827				
25	Shale	827	852				
7	Lime	852	859				
52	Shale	859	912				
2	Lime	912	914				
2	Shale	914	916				
16	Broken Lime	916	932				
14	Shale	932	946				
4	Lime	946	950				
14	Shale	950	964				
7	Lime	964	971				
11	Shale	971	982		T.D.		1112
4	Lime	982	986		T.D. of Pipe		1107
4	Shale	986	990				

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
1	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
1	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
1	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
1	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
1	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
1	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
1	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
1	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
1	Drilling- Shannon 3-14	6.25	5,531.25
1	Drill Pit	100.00	100.00
8	Cement for Surface	11.60	92.80
1	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
1	Drilling- Shannon 5-14	6.25	5,481.25
1	Drill Pit	100.00	100.00
		Total	



CONSOLIDATED
Oil Well Services, LLC

Adolla

TICKET NUMBER 45854

LOCATION Eureka

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
2-21-14	4950	Hammond #65-14				Woodson
CUSTOMER <u>Pigua Petroleum</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>1331 Xylan Rd</u>			<u>485</u>	<u>Chris M</u>		
CITY <u>Pigua</u>			<u>479</u>	<u>seth</u>		
STATE <u>Ks</u>			<u>637</u>	<u>Merle</u>		
ZIP CODE <u>66761</u>						

JOB TYPE 45 HOLE SIZE _____ HOLE DEPTH 1113 CASING SIZE & WEIGHT _____
 CASING DEPTH 1107 DRILL PIPE _____ TUBING 2 3/8 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 640 bbls DISPLACEMENT PSI 500* Bump plug 1000* RATE _____

REMARKS: Safety Meeting. Rig up to 2 3/8 tubing. Break circulation w/ 5 bbls Fresh Water. Pump 300* Gel Flush + 5 bbl Water spacer. Mix 145 sks 60/40 Poz mix Cement w/ 5# Kol-seal, 4% Gel + 1% Cacl2. Shut down washout pump & lines. Staff 2 plugs. Displace w/ 6.4 bbls Fresh water. Final pumping Pressure 500*. Bump Plug 1000*. Shut well in w/ 500*. Good Cement Return 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
1131	145 sks	60/40 Poz mix Cement	13.18	1911.10
1110A	725*	Kol-seal 5# per/sk	.46	332.50
1118B	500*	Gel 4%	.22	110.00
1102	125*	Cacl2 1%	.78	97.50
1118B	300*	Gel/Flush	.22	66.00
5407	6.24700	Tan Mileage	N/C	368.00
55025	3 1/2	80 bbl Vacuum Truck	90.00	315.00
1123	2000 gallons	CITY water	12.79/1000	51.90
4402	2	2 3/8 Rubber Plug	29.50	59.00
			Subtotal	4565.00
			SALES TAX	187.98
			ESTIMATED TOTAL	4752.98

completed

715%

Ravin 3737

AUTHORIZATION [Signature] 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
320-431-9210 or 800-467-8676

1st well

TICKET NUMBER 57954
FIELD TICKET REF # 49030
LOCATION Thayer
FOREMAN Robb Buehly

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																												
2-27-14		Hammond "E" 66-14	8	24S	16E	WO																												
<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>476</td> <td>Josh</td> <td>6797102</td> <td>Junior</td> </tr> <tr> <td>490</td> <td>Larry R</td> <td>6807221</td> <td>Stan</td> </tr> <tr> <td>478</td> <td>Mark</td> <td></td> <td></td> </tr> <tr> <td>521</td> <td>Eric</td> <td></td> <td></td> </tr> <tr> <td>443</td> <td>Merle</td> <td></td> <td></td> </tr> <tr> <td>618T95</td> <td>Joe</td> <td></td> <td></td> </tr> </tbody> </table>							TRUCK #	DRIVER	TRUCK #	DRIVER	476	Josh	6797102	Junior	490	Larry R	6807221	Stan	478	Mark			521	Eric			443	Merle			618T95	Joe		
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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>1046-1060 (30) Squirrel</u>	

TYPE OF TREATMENT

Acid spot + Frac + Acid OIF

CHEMICALS

Biocide - Breaker
Acid - Inhibitor - Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI
PAD	20	20			BREAKDOWN 1100
16-30		20		500#	START PRESSURE
12-20		20		3,500#	END PRESSURE
12-20		20		3,500#	BALL OFF PRESS
12-20 (8)+(5)					ROCK SALT PRESS
12-20 + (2)				3,000#	ISIP 600
12-20					5 MIN
12-20 (6)+(2) = (23)				3,000#	10 MIN
12-20					15 MIN
FLUSH CASING 10					MIN RATE
Release balls to T.D.			TOTAL 10,000#		MAX RATE
OVERFLUSH 10		20	SAND		DISPLACEMENT 6.0
TOTAL BBL'S 240					

REMARKS: * held safety-procedure meeting before fracs
Spotted 75 gal - 15% HCL acid on perfs
Blended 100 gal raw HCL acid OIF
Location 11:00A - 11:40A 50 miles

AUTHORIZATION customer left site TITLE _____ DATE 2-27-14

Terms and Conditions are printed on reverse side.