

**TREATMENT REPORT**

Customer: **DEUTSCH OIL COMPANY** Lease No: \_\_\_\_\_ Date: **3-23-17**  
 Lease: **JONES** Well #: **2-4**  
 Field Order #: **13013** Station: **PRATT** Casing: **5 1/2" 4160'** Depth: \_\_\_\_\_ County: **PRATT** State: **KS**  
 Type Job: **Z 42 5 1/2" long string** Formation: \_\_\_\_\_ Legal Description: **4-265-11W**

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: <b>5 1/2"</b>	Tubing Size: _____	Shots/Ft: _____		Acid Conc: <b>150 SWS</b>	AA-2 RATE	PRESS	ISIP	
Depth: <b>4155.91</b>	Depth: _____	From: _____	To: _____	Pre Pad: <b>30 SWS</b>	Max <b>60/40</b>	<b>POZ</b>		5 Min.
Volume: <b>98.9</b>	Volume: _____	From: _____	To: _____	Pad: _____	Min			10 Min.
Max Press: <b>1,500</b>	Max Press: _____	From: _____	To: _____	Frac: _____	Avg			15 Min.
Well Connection: _____	Annulus Vol.: _____	From: _____	To: _____		HHP Used			Annulus Pressure
Plug Depth: <b>4137.1</b>	Packer Depth: _____	From: _____	To: _____	Flush: <b>98.4</b>	Gas Volume			Total Load

Customer Representative: **KEAT Deutch** Station Manager: **DAVE SCOTT** Treater: **MIKE MATTAL**

Service Units	<b>37586</b>	<b>27463</b>	<b>70959</b>	<b>19862</b>				
Driver James	<b>MATTAL</b>	<b>ERNST</b>	<b>CLYMER</b>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:00					ON location / SARMY meeting
11:15					Run 15.5# 5 1/2" csng 18.8' shoe
					tubing on 1,3,5,7,9,11 BASIN on 5
12:55					CASING ON BOTTOM
1:06					Hook to csng / break circ w. Rig
2:06	100		3	5	PUMP 3 bbl water
2:07	100		12	5	PUMP 12 bbl mud flush
2:10	100		5	5	PUMP 5 bbl water
2:11	100		36	5	Mix 150 SWS AA-2 conc
2:21			4	3	WASH PUMP + LINE / DROP PLUG
2:24	100			6	START displacement
2:37	200		80	5.5	LIFT pressure
2:41	600		90	3	slow rate
2:43	1500		98.4		plug down, Releases + hold
2:55			7		plug Rat Hole
					Circulation thru JOB
					JOB COMPLETE
					Thank YOU!
					Mike Mattal
					Shawn + Michael



