

# Pro-Stim Chemicals LLC

## Acidizing Report

Date **10-3-18**

Customer: **GRAND MASON** Pro-Stim Chemical Yard **(LAWRENCE, MISSOURI)** Pro-Stim Number **A-17**

Well Name & Number: **MILLER #2-10** Formation: \_\_\_\_\_

County: **RENO** State: **KS** Interval: **3730-3740**

Well Type: \_\_\_\_\_ Completion  Recompletion  Workover  Oil  Gas  Water  Disposal  Perf  OH

Job Pumped Via: \_\_\_\_\_ Tubing  Casing  Annulus  CTU  Combination  Plug Depth: \_\_\_\_\_ Packer Depth: **3700**

Casing Size: **5 1/2** GRD: \_\_\_\_\_ WT: \_\_\_\_\_ Depth: \_\_\_\_\_ Tubing Size: **2 7/8** Spot: **3770 - 1881**

Casing Vol: **.75** Tbg Vol: **21.4** Ann Vol: \_\_\_\_\_ OH Vol: \_\_\_\_\_ Total Displacement: **22.4**

Customer Representative Signature: *[Signature]*  
 500 GAL 20% M.I.A  
 5gals RAS-10, 24bbls 2% KCL Biocide

### Treatment Record

Time	Type Fluid	Rate BPM	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
-	ACID						SPOT 1 BBL, WAIT 5 MIN
							PULLED 2 SCENTS, SET PACKER
1	ACID	3.4		4.5	0	0	
6	FLUSH	3.4		21.7	0	0	
7	"	0		22.5	0	0	WELL LOADED
7	"	0		22.5	500	0	
11	"	6		22.5	800	0	
22	"	0		22.5	800	0	
28	"	0		22.5	800	0	
35	"	0		22.5	1000	0	
42	"	.50		22.9	900	0	WELL TREATED @ 1,000 PSI
43	"	1.1		23.5	300	0	
44	"	1.5		24.9	200	0	
46	"	2.0		28.0	300	0	
48	"	2.0		32.0	300	0	
49	"	0		34.4	200	0	

### Treatment Synopsis

Avg Inj Rate	Fluid BPM			Total Injected	H2O 22.4	Acid 12	Oil
	Max 1,000	Final 200	Avg.		ISIP 200	5 SI 110	10 SI 80
Treating Pts					20 50	25 40	30 30

# Pro-Stim Chemicals LLC

## Acidizing Report

Date 10-4-18

Customer <u>MESA</u> <u>CRAND</u>		Pro-Stim Chemical Yard <u>LUNNENHAIN</u>		Pro-Stim Number <u>A-17</u>	
Well Name & Number <u>MILLER #2-10</u>			Formation		
County <u>RENO</u>		State <u>NV</u>		Interval <u>3730 - 3740</u>	
Well Type:	Completion <input type="checkbox"/>	Recompletion <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>
	Water <input type="checkbox"/>	Disposal <input type="checkbox"/>	Perf <input type="checkbox"/>	OH <input type="checkbox"/>	
Job Pumped Via Tubing <input checked="" type="checkbox"/>		Casing <input type="checkbox"/>	Annulus <input type="checkbox"/>	CTU <input type="checkbox"/>	Combination <input type="checkbox"/>
Casing Size <u>5 1/2</u>		GRD	WT	Depth	Tubing Size <u>2 7/8</u>
Casing Vol <u>95</u>		Tbg Vol <u>21.4</u>	Ann Vol	OH Vol	Spot <u>3770</u>
					Plug Depth
					Packer Depth <u>3700</u>
					Total Displacement <u>22.4</u>

Customer Representative Signature Nak Ap... 1,000 GAL 10% NE/FE  
10gals RAS-10, 24bbls 2% KCL Biocide

### Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
-	ACID						SPUT 1 BBL, WAIT 5 MIN PULL 2 SWEPTS, SET BACK
1	ACID	3.6		4.6	0	0	
5	"	3.6		18.4	0	0	
7	"	1.5		23.5	50	0	WELL LOADED
8	FLUSH	2.6		26.3	160	0	
9	"	2.7		29.1	250	0	
12	"	3.0		36.9	400	0	
13	"	3.5		40.9	420	0	
14	"	3.5		44.5	430	0	
15	"	0		47.4	250	0	

### Treatment Synopsis

Avg Inj Rate	Fluid BPM <u>3.05</u>		Total Injected	H2O <u>27.4</u>	Acid <u>17</u>	Oil
	Max <u>4.80</u>	Final <u>2.50</u>		Avg	ISIP <u>250</u>	5 SI <u>130</u>
Treating Pts						15 SI <u>80</u>
				20	25	30

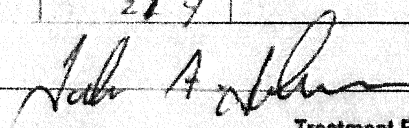
# Pro-Stim Chemicals LLC

## Acidizing Report

Date 10-5-18

Customer <u>GRAND MESA</u>		Pro-Stim Chemical Yard <u>CUMMINGS</u>		Pro-Stim Number <u>A-17</u>	
Well Name & Number <u>MULLER #2-10</u>			Formation		
County <u>RENO</u>		State <u>KS</u>		Interval <u>3730-3740</u>	
Well Type	Completion <input type="checkbox"/>	Recompletion <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>
		Water <input type="checkbox"/>	Disposal <input type="checkbox"/>	Perf <input type="checkbox"/>	OH <input type="checkbox"/>
Job Pumped Via: <input checked="" type="checkbox"/> Tubing			<input type="checkbox"/> Casing	<input type="checkbox"/> Annulus	<input type="checkbox"/> CTU
		<input type="checkbox"/> Combination	Plug Depth		Packer Depth
Casing Size: <u>5 1/2</u>	GRD	WT	Depth	Tubing Size: <u>2 7/8</u>	Spot <u>3790</u>
Casing Vol. <u>.95</u>	Tbg Vol <u>22.4</u>	Ann Vol	OH Vol	Total Displacement <u>22.4</u>	

2,000gals 10% NE/FE Acid; 20gals RAS-10;  
24bbbls 2% KCL Biocide

Customer Representative Signature 

### Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbbls	Cum Vol Bbbls	Pressure		Observations
					Tubing	Casing	
-	ACID						SPOT 1 BBL, WAIT 5 MIN PULL 2 JOINTS, SET PACK
1	ACID	4.1		5.0	0	0	
3	"	4.1		13.1	0	0	
5	"	4.1		21.4	0	0	
6	"	2.0		25.9	20	0	WELL LOADED
7	"	4.1		28.5	400	0	
9	"	4.1		36.3	490	0	
11	"	4.1		44.5	530	0	
12	FLUSH	4.1		48.5	560	0	
14	"	4.1		52.8	580	0	
16	"	4.1		65.0	590	0	
17	"	4.1		69.0	630	0	
18	"	0		72.0	300	0	

### Treatment Synopsis

Avg Inj Rate	Fluid BPM <u>4.0</u>	Total Injected			H2O <u>24</u>	Acid <u>48</u>	Oil
Treating Prs	Max <u>630</u>	Final <u>300</u>	Avg	ISIP <u>300</u>	5'SI <u>220</u>	10'SI <u>180</u>	15'SI <u>160</u>
					20	25	30



