



# FRACTURING SERVICE TREATING REPORT

HALLIBURTON COMPANY

Halliburton District *Liberal, Ks*  
Halliburton Division *Wichita, Ks*

Attach To Ticket No *FS, 190057*  
Stage No  
Page No

Field *W Liberal, Ks* Sec. Twp. Rng. County *Seward* State *Ks*

THE FOLLOWING INFORMATION WAS FURNISHED BY THE WELL OWNER OR HIS AGENT:

Date Completed	Formation	Prev. Treat. Date	Type
Casing OD <i>4 1/2</i> Wt <i>10.5</i> Depth		Fluid Gal.	Sand lb
Liner OD	To	Prev. Treat. Interval From	To
Perf. From <i>6498</i> To <i>6544</i> <i>19#</i>		Tubing: Size	Depth
Perf. From	To	Shots/Ft	Packer Type
Perf. From	To	Shots/Ft	Set at
Open Hole Size	From	To	Max. Allowable Pres.: PSI Tubing Casing
			Treat Thru: Tubing <input type="checkbox"/> Annulus <input type="checkbox"/> Casing <input type="checkbox"/> Tubing Annulus <input type="checkbox"/>

MATERIALS USED		TREATMENT SUMMARY	
Type Job <i>V-0-5rac</i>	Fluid <i>Diesel</i>	Trucks (No. and Type) <i>2048-2160-1674-V-12</i>	Hyd. HP Available <i>2400</i> Used <i>2352.9</i>
Fluid source <i>Customer</i>	API Gravity	Pumps On Tubing	Casing
Sand Grade <i>20-40</i> Lb <i>7500</i>	Surfactant Type <i>5Gal 5N-5Gal 13N</i>	AVERAGE RATE, BPM	
Sand Grade	Add. Type <i>V-10</i> Lb <i>600</i>	Treating <i>341</i> Displ <i>32</i> Overall <i>37.6</i>	
Fluid Loss Add. Type <i>Adowite</i> Lb <i>1000</i>	Perfor. Balls Type	PRESSURES, PSI	
Blocking Agent Type <i>17-20 Halls</i> Lb <i>500</i>	Gelling Agent Type <i>Caustic</i> Lb <i>700</i>	Breakdown <i>3200</i> Maximum <i>3200</i>	
Breaker Type <i>YAT</i> Lb <i>450</i>		Minimum <i>2700</i> Displacement <i>2600</i>	
		Instant Shut in <i>100</i> 5 Min <i>75</i>	
		VOLUMES	
		Water Bbl <i>48</i> Breakdown Bbl Gal	
		Treatment Bbl <i>393</i> Displ. Bbl <i>124</i>	
		Total: Bbl, Gal <i>568</i>	

## TREATING LOG

TIME	Operation or Amt. and Type Fluid Pumped	RATE	PUMPS	PRESSURE - PSI		REMARKS
				TUBING	CASING	
7:40	Start Pad	38	8		0	
7:41	Start Frac 1/4 sand/gal	42	8		0	
7:42	Hole Loaded	36	8		3200	
7:44	Drop 5 Balls	38	8		3100	
7:49	Start Halls 13# 19#	34	8		2800	
7:50	Start Flush	31	8		3000	
7:55	Flush in	31	8		2600	
	Instant Shutdown				100	
	Avg Psi 3000					
	Avg BPM <del>37.6</del> 31					

FORM 1387 K2

Halliburton Operator *Lee W. McNeil* Company Representative *J. W. Mallonee*

ORIGINAL MUST ACCOMPANY TICKET

Copies Requested *5*

FRACTURING  
Company *Mallonee Frac Services O/P Operative*  
Well No *1*  
Date *12-2-65*

