

The Western Company of North America TREATMENT REPORT		Date <u>3-5-81</u> Western District <u>Farmington (31)</u> F. Receipt <u>334789</u> Operator <u>JOHN H. HILL</u> <i>St. Union Co. gels</i> Lease <u>Hodges</u> Well No. <u>8-E</u> Field <u>Basin Dakota</u> Location <u>S21.T26N.R8W</u> County <u>San Juan</u> State <u>New Mexico</u> Stage Number <u>1</u> This Zone ☐ This Well ☒																																																																																													
WELL DATA:		OG ☐ NG ☒ NO ☐ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth <u>707</u> PB <u>unknown</u> Formation <u>Basin Dakota</u> Size Tubing <u>--</u> Tubing Perf. <u>--</u> Type Packer <u>--</u> Set At <u>--</u> Size Casing <u>4 1/2</u> Wt. <u>10.5</u> Set From <u>surface</u> To <u>unknown</u> Size Liner <u>--</u> Wt. <u>--</u> Liner Set From <u>--</u> To <u>--</u> Open Hole: Size <u>--</u> From <u>--</u> To <u>--</u> Casing Perforations: Size <u>3/4</u> Holes Per Foot <u>1</u> Intervals <u>6602, 6612, 6614, 6622, 6624, 6678, 6680, 6682,</u> <u>6696, 6702, 6704, 6706, 6711, 6716, 6718, 6720, 6722, 6728, 6730, 6733, 6736, 6738, 6740, 6742,</u> <u>6744, 6746, 6750</u> (27 holes) Prior Production <u>none</u>																																																																																													
TREATMENT DATA:		FLUID PUMPED AND CAPACITIES IN BBLs.																																																																																													
Pad Used: Yes ☒ No ☐ Pad Type <u>Mini-Max III-40</u> Treating Fluid Type: Oil ☐ Water ☒ Acid ☐ Misc. ☐ Foam ☐ Emulsion ☐ Treating Fluid Volume Gals. <u>103,152</u> Fluid Description <u>Mini-Max III-40</u>		Tubing Cap. <u>--</u> Casing Cap. <u>105</u> Open Hole Cap. <u>--</u> Fluid Load <u>--</u> Pump Volume <u>476</u> Treating Fluid <u>1980</u> Flush <u>105</u> Overflush <u>10</u> Total to Recover <u>2571</u>																																																																																													
Total Prop Quantity <u>200,000</u> Lbs. Prop Type: Sand ☒ Beads ☐ Special ☐ None ☐ Prop Mesh Sizes, Types and Quantities <u>160,000 lbs. 20/40 sand; 40,000 lbs. 10/20 sand</u> Hole Loaded With <u>circulated w/2% KCl</u> Treat Via: Tubing ☐ Casing ☒ Anul ☐ Tubing & Anul ☐ Ball Sealers: <u>--</u> In <u>--</u> Stages of <u>--</u> Types and Number of Pumps Used <u>(2) 1414's; (1) GRB 1000</u> Auxiliary Materials <u>50 gals. X-cide; 100 gals. Aquaflo; 50 gals. Claymaster III;</u> <u>20,300 lbs. KCl; 117 lbs. B-5; 1,800 gals. Diesel</u>																																																																																															
Procedure <u>Treat via casing; pump 476 bbl. pad; pump 476 bbls. @1#/gal 20/40;</u> <u>pump 476 bbls. @2#/gal 20/40; pump 476 bbls. @3#/gal 20/40; pump 268 bbls.</u> <u>@4#/gal 20/40; pump 284 bbls. @4#/gal 10/20; pump 10 bbls. flush; all fluid Mini-Max III-40; pump</u> <u>105 bbls. 2% KCl water flush; shut down</u>																																																																																															
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Treating Pressure: Min. <u>0</u> Max. <u>3400</u> Avg. <u>2800</u> Inj. Rate on Treating Fluid <u>32</u> Rate on Flush <u>32</u> Avg. Inj. Rate <u>32</u> I.S.D.P. <u>1700</u> Flush Dens. lb/gal <u>8.42</u> Final Shut-in Pressure <u>1500</u> in <u>15</u> Minutes. Operator's Maximum Pressure <u>4000</u>		Customer Representative <u>C. D. Moore</u> Western Representative <u>Ken Marshall</u> Distribution (9) <u>JOHN H. HILL*</u> <u>17400 Dallas Pkwy</u> <u>Dallas, Texas 75252</u> Attn: <u>Mr. Steve Connor</u> cc: (2) <u>Farmington District</u>																																																																																													
Job Number <u>602785</u>		5 min. shut in - <u>1600</u> 10 min. shut in - <u>1500</u>																																																																																													

