

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

AUG 24 1995

STEP RATE INJECTION TEST

CLIENT: CROSS TIMBERS OPERATING CO.

DATE: AUGUST 24, 1995

WELL NAME: S.M.G.S.A.U. TRACT 6 NO.9
LEA COUNTY, NEW MEXICO

WO#: 95-14-1241

PERFS = 4153-4278

PACKER DEPTH = 4122

BHP GAUGE DEPTH = 4215

SURFACE ONLY

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	9:45	618.4				618.4		
	9:50	706.9	0.9	259.2	2.633	704.3	7.56	
	9:55	748.0	1.7	230.4	2.117	745.9	6.72	
	10:00	768.0	2.6	259.2	2.633	765.4	7.56	
				249.6				
2	10:05	892.5	4.3	489.6	8.539	884.0	14.28	
	10:10	942.4	6.0	489.6	8.539	933.9	14.28	
	10:15	987.2	7.7	489.6	8.539	978.7	14.28	
3				489.6				
	10:20	1073.3	9.9	633.6	13.758	1059.5	18.48	
	10:25	1117.1	12.1	633.6	13.758	1103.3	18.48	
	10:30	1152.1	14.4	662.4	14.938	1137.2	19.32	
				643.2				
4	10:35	1268.2	17.3	835.2	22.936	1245.3	24.36	
	10:40	1319.5	20.3	864.0	24.421	1295.1	25.20	
	10:45	1350.7	23.2	835.2	22.936	1327.8	24.36	
				844.8				
5	10:50	1508.1	27.1	1123.2	39.679	1468.4	32.76	
	10:55	1571.7	31.0	1123.2	39.679	1532.0	32.76	
	11:00	1620.5	34.9	1123.2	39.679	1580.8	32.76	
				1123.2				
6	11:05	1802.8	39.9	1440.0	62.832	1740.0	42.00	
	11:10	1900.2	44.9	1440.0	62.832	1837.4	42.00	
	11:15	1951.3	49.9	1440.0	62.832	1888.5	42.00	
				1440.0				
7	11:20	2136.2	55.9	1728.0	88.037	2048.2	50.40	
	11:25	2204.9	62.0	1756.8	90.771	2114.1	51.24	
	11:30	2241.1	68.1	1756.8	90.771	2150.3	51.24	
				1747.2				