



CARDINAL SURVEYS COMPANY

PUMP-IN TRACER

COMPANY <u>SANTA FE ENERGY OPERATING PARTNERS L.P.</u>		File No. <u>10,823</u>		
WELL <u>SHINNERY 14 FEDERAL NO. 5</u>		<i>Survey</i> <i>DATE</i> <i>2001</i>		
FIELD <u>QUERECHO PLAINS</u>				
COUNTY <u>LEA</u>	STATE <u>NM</u>			
LOCATION: <u>2310' FNL & 660' FEL</u>				
SEC <u>14</u>	TWP <u>18-S</u>	RGE <u>32-E</u>		
Permanent Datum <u>G.L.</u>	Elev. <u>3818.9'</u>	KB <u>3833.9'</u>		
Log Measured From <u>K.B. 15'</u>	Ft. Above Perm. Datum	DF <u>3832.9'</u>		
Drilling Measured From <u>K.B.</u>		GL <u>3818.9'</u>		
Date <u>6-12-91</u>				
Depth - Driller <u>8782'</u>				
Depth - Plug Back <u>8515'</u>				
Depth - Logger <u>6900'</u>				
Bottom Logged Interval <u>6900'</u>				
Top Logged Interval <u>4900'</u>				
Recorded By <u>GRAY</u>				
Witnessed By <u>MR. CATHEY & MR. WELKER</u>				
Base Location <u>HOBBS, NFW MEXICO</u>				
Unit No. <u>8724</u>				
Equip. Operator <u>LAND</u>				
Size Casing	Wgt.	From	To	Type of Well <u>INJECTION</u>
<u>13 3/8"</u>	<u>48#</u>	<u>SURFACE</u>	<u>410'</u>	Status <u>SHUT-IN</u>
<u>8 5/8"</u>	<u>24#</u>	<u>SURFACE</u>	<u>274 1/4'</u>	Type of Fluid <u>WATER</u>
<u>5 1/2"</u>	<u>17#</u>	<u>SURFACE</u>	<u>8781'</u>	Fluid Level <u>FULL</u>
Tubing				Injection Rate _____ Surface Pressure <u>1225 PSI</u> Surface Temp. _____ Bottom Hole Temp. _____
Borehole				