

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE** N.M. Oil Cons. Division  
1625 N. French Dr.  
Hobbs, NM 88240

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Matador Operating Company

3. Address and Telephone No.  
310 W. Wall, Suite 906 Midland, TX 79701 915-687-5955

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit B 460' FNL 1980' FEL  
Sec. 29, T19S, R33E

5. Lease Designation and Serial No.

NM14794

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Maduro Fed. Unit #4

9. API Well No.

30-025-30840

10. Field and Pool, or Exploratory Area

Gem Morrow Gas

11. County or Parish, State

Lea County, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☒ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

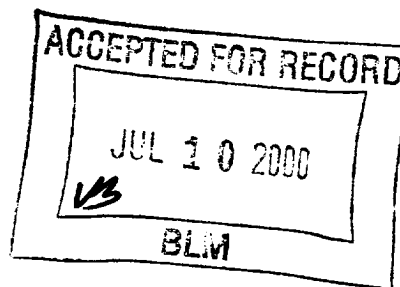
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

To recomple to the Morrow. See attached procedure.

CORRECTION

ENTERED IN  
AFMSS



14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title Production Analyst

Date 7/6/00

(This space for Federal or State office use)

Approved by [Signature]  
Conditions of approval, if any:

Title PETROLEUM ENGINEER

Date 7/10/00

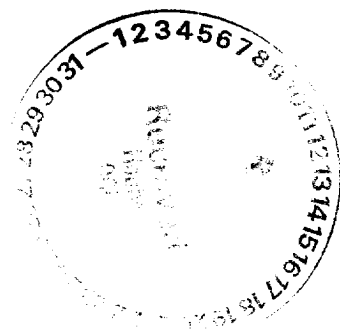
FIG. 300 13 BABY

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**附录二**

107-75772



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division  
1625 N. French Dr.  
Hobbs, NM 88240

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Matador Operating Company

3. Address and Telephone No.  
310 W. Wall, Suite 906 Midland, TX 79701 915-687-5955

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit B 460' FNL 1980' FEL  
Sec. 29, T19S, R33E

5. Lease Designation and Serial No.

NM14794

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Maduro Fed. Unit #4

9. API Well No.

30-025-30840

10. Field and Pool, or Exploratory Area

Gem Morrow Gas

11. County or Parish, State

Lea County, NM

12 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

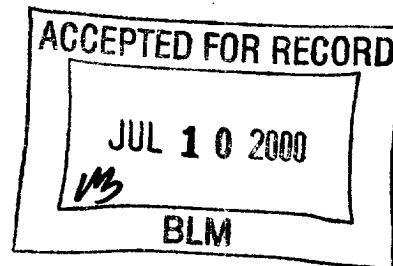
TYPE OF ACTION

- ☐ Abandonment  
☒ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

To recomple to the Morrow. See attached procedure.



14. I hereby certify that the foregoing is true and correct

Signed [Signature]  
(This space for Federal or State office use)

Title Production Analyst

Date 7/6/00

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Office \_\_\_\_\_  
DISTRICT \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

SECRET  
NO FORN DISSEM  
100-1000000000

60-01 V L- 700 000

SECRET



**Maduro #4**  
**Recompletion to Morrow**  
**06/30/00**

**DRAFT**

1. MIRUPU.
2. Pump 75 bbls 6% KCL down tubing. Test annulus to 1500 psi.
3. Remove tree. NU 7-1/16" 5000 hydraulic BOP.
4. Release packer. POH with 2-7/8 tubing, PLS packer and tools.
5. RIH with 4-3/4" bit, casing scraper and 6 3-1/2 DC's on 2-7/8 tubing to PBTD at 12968' KB. Drill 30' of cement and Howco EZ Drill CIBP to 12998 KB. Be prepared for well to go on vacuum when CIBP has been cut.
6. CIH to 13100 to ensure perforations at 13052-62 are clear.
7. POH with tubing and tools.
8. RIH with cement retainer on 2-7/8" tubing to 12950'. Set retainer at 12950'. Test tubing to 3000 psi.
9. Squeeze perforations 13052-13062 with 50 sxs CI H cement with .2% HR12 + .4% Halad 9 (or equivalent) mixed at 16.4 PPG, 1.06 yield, 4.3 gals of water/sk. (No waste additives such as defoamer, latex, etc.) Walking squeeze to be performed at low pump rate when cement reaches perforations.
10. Sting out of retainer. Reverse tubing clean.
11. POH with tubing and stinger.
12. RIH with 4-3/4 bit, scraper and DC's on tubing.
13. Drill out cement retainer and cement across perforations at 13052-62'.
14. CIH to 13230'. Drill out cement to CIBP at 13250'. When CIBP is contacted with bit, POH to PU washover shoe.
15. RIH with washover shoe to burn over CIBP at 13250. Wash over CIBP. When top slips are cut over, the CIBP will probably slide down hole until it reaches the top of TCP gun assembly at 13481. Continue milling over CIBP to sufficiently swallow all of CIBP (approximately 2 ft total).
16. POH with tubing and tools.

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* and *Agaricus bisporus* spores. The concentration of the spores was 10<sup>6</sup> spores/ml (a), 10<sup>7</sup> spores/ml (b), 10<sup>8</sup> spores/ml (c), 10<sup>9</sup> spores/ml (d), 10<sup>10</sup> spores/ml (e), 10<sup>11</sup> spores/ml (f), 10<sup>12</sup> spores/ml (g), 10<sup>13</sup> spores/ml (h), 10<sup>14</sup> spores/ml (i), 10<sup>15</sup> spores/ml (j), 10<sup>16</sup> spores/ml (k), 10<sup>17</sup> spores/ml (l), 10<sup>18</sup> spores/ml (m), 10<sup>19</sup> spores/ml (n), 10<sup>20</sup> spores/ml (o), 10<sup>21</sup> spores/ml (p), 10<sup>22</sup> spores/ml (q), 10<sup>23</sup> spores/ml (r), 10<sup>24</sup> spores/ml (s), 10<sup>25</sup> spores/ml (t), 10<sup>26</sup> spores/ml (u), 10<sup>27</sup> spores/ml (v), 10<sup>28</sup> spores/ml (w), 10<sup>29</sup> spores/ml (x), 10<sup>30</sup> spores/ml (y), 10<sup>31</sup> spores/ml (z), 10<sup>32</sup> spores/ml (aa), 10<sup>33</sup> spores/ml (ab), 10<sup>34</sup> spores/ml (ac), 10<sup>35</sup> spores/ml (ad), 10<sup>36</sup> spores/ml (ae), 10<sup>37</sup> spores/ml (af), 10<sup>38</sup> spores/ml (ag), 10<sup>39</sup> spores/ml (ah), 10<sup>40</sup> spores/ml (ai), 10<sup>41</sup> spores/ml (aj), 10<sup>42</sup> spores/ml (ak), 10<sup>43</sup> spores/ml (al), 10<sup>44</sup> spores/ml (am), 10<sup>45</sup> spores/ml (an), 10<sup>46</sup> spores/ml (ao), 10<sup>47</sup> spores/ml (ap), 10<sup>48</sup> spores/ml (aq), 10<sup>49</sup> spores/ml (ar), 10<sup>50</sup> spores/ml (as), 10<sup>51</sup> spores/ml (at), 10<sup>52</sup> spores/ml (au), 10<sup>53</sup> spores/ml (av), 10<sup>54</sup> spores/ml (aw), 10<sup>55</sup> spores/ml (ax), 10<sup>56</sup> spores/ml (ay), 10<sup>57</sup> spores/ml (az), 10<sup>58</sup> spores/ml (ba), 10<sup>59</sup> spores/ml (bb), 10<sup>60</sup> spores/ml (bc), 10<sup>61</sup> spores/ml (bd), 10<sup>62</sup> spores/ml (be), 10<sup>63</sup> spores/ml (bf), 10<sup>64</sup> spores/ml (bg), 10<sup>65</sup> spores/ml (bh), 10<sup>66</sup> spores/ml (bi), 10<sup>67</sup> spores/ml (bj), 10<sup>68</sup> spores/ml (bk), 10<sup>69</sup> spores/ml (bl), 10<sup>70</sup> spores/ml (bm), 10<sup>71</sup> spores/ml (bn), 10<sup>72</sup> spores/ml (bo), 10<sup>73</sup> spores/ml (bp), 10<sup>74</sup> spores/ml (bq), 10<sup>75</sup> spores/ml (br), 10<sup>76</sup> spores/ml (bs), 10<sup>77</sup> spores/ml (bt), 10<sup>78</sup> spores/ml (bu), 10<sup>79</sup> spores/ml (bv), 10<sup>80</sup> spores/ml (bw), 10<sup>81</sup> spores/ml (bx), 10<sup>82</sup> spores/ml (by), 10<sup>83</sup> spores/ml (bz), 10<sup>84</sup> spores/ml (ca), 10<sup>85</sup> spores/ml (cb), 10<sup>86</sup> spores/ml (cc), 10<sup>87</sup> spores/ml (cd), 10<sup>88</sup> spores/ml (ce), 10<sup>89</sup> spores/ml (cf), 10<sup>90</sup> spores/ml (cg), 10<sup>91</sup> spores/ml (ch), 10<sup>92</sup> spores/ml (ci), 10<sup>93</sup> spores/ml (cj), 10<sup>94</sup> spores/ml (ck), 10<sup>95</sup> spores/ml (cl), 10<sup>96</sup> spores/ml (cm), 10<sup>97</sup> spores/ml (cn), 10<sup>98</sup> spores/ml (co), 10<sup>99</sup> spores/ml (cp), 10<sup>100</sup> spores/ml (cq), 10<sup>101</sup> spores/ml (cr), 10<sup>102</sup> spores/ml (cs), 10<sup>103</sup> spores/ml (ct), 10<sup>104</sup> spores/ml (cu), 10<sup>105</sup> spores/ml (cv), 10<sup>106</sup> spores/ml (cw), 10<sup>107</sup> spores/ml (cx), 10<sup>108</sup> spores/ml (cy), 10<sup>109</sup> spores/ml (cz), 10<sup>110</sup> spores/ml (da), 10<sup>111</sup> spores/ml (db), 10<sup>112</sup> spores/ml (dc), 10<sup>113</sup> spores/ml (dd), 10<sup>114</sup> spores/ml (de), 10<sup>115</sup> spores/ml (df), 10<sup>116</sup> spores/ml (dg), 10<sup>117</sup> spores/ml (dh), 10<sup>118</sup> spores/ml (di), 10<sup>119</sup> spores/ml (dj), 10<sup>120</sup> spores/ml (dk), 10<sup>121</sup> spores/ml (dl), 10<sup>122</sup> spores/ml (dm), 10<sup>123</sup> spores/ml (dn), 10<sup>124</sup> spores/ml (do), 10<sup>125</sup> spores/ml (dp), 10<sup>126</sup> spores/ml (dq), 10<sup>127</sup> spores/ml (dr), 10<sup>128</sup> spores/ml (ds), 10<sup>129</sup> spores/ml (dt), 10<sup>130</sup> spores/ml (du), 10<sup>131</sup> spores/ml (dv), 10<sup>132</sup> spores/ml (dw), 10<sup>133</sup> spores/ml (dx), 10<sup>134</sup> spores/ml (dy), 10<sup>135</sup> spores/ml (dz), 10<sup>136</sup> spores/ml (ea), 10<sup>137</sup> spores/ml (eb), 10<sup>138</sup> spores/ml (ec), 10<sup>139</sup> spores/ml (ed), 10<sup>140</sup> spores/ml (ee), 10<sup>141</sup> spores/ml (ef), 10<sup>142</sup> spores/ml (eg), 10<sup>143</sup> spores/ml (eh), 10<sup>144</sup> spores/ml (ei), 10<sup>145</sup> spores/ml (ej), 10<sup>146</sup> spores/ml (ek), 10<sup>147</sup> spores/ml (el), 10<sup>148</sup> spores/ml (em), 10<sup>149</sup> spores/ml (en), 10<sup>150</sup> spores/ml (eo), 10<sup>151</sup> spores/ml (ep), 10<sup>152</sup> spores/ml (eq), 10<sup>153</sup> spores/ml (er), 10<sup>154</sup> spores/ml (es), 10<sup>155</sup> spores/ml (et), 10<sup>156</sup> spores/ml (eu), 10<sup>157</sup> spores/ml (ev), 10<sup>158</sup> spores/ml (ew), 10<sup>159</sup> spores/ml (ex), 10<sup>160</sup> spores/ml (ey), 10<sup>161</sup> spores/ml (ez), 10<sup>162</sup> spores/ml (fa), 10<sup>163</sup> spores/ml (fb), 10<sup>164</sup> spores/ml (fc), 10<sup>165</sup> spores/ml (fd), 10<sup>166</sup> spores/ml (fe), 10<sup>167</sup> spores/ml (ff), 10<sup>168</sup> spores/ml (fg), 10<sup>169</sup> spores/ml (fh), 10<sup>170</sup> spores/ml (fi), 10<sup>171</sup> spores/ml (fj), 10<sup>172</sup> spores/ml (fk), 10<sup>173</sup> spores/ml (fl), 10<sup>174</sup> spores/ml (fm), 10<sup>175</sup> spores/ml (fn), 10<sup>176</sup> spores/ml (fo), 10<sup>177</sup> spores/ml (fp), 10<sup>178</sup> spores/ml (fq), 10<sup>179</sup> spores/ml (fr), 10<sup>180</sup> spores/ml (fs), 10<sup>181</sup> spores/ml (ft), 10<sup>182</sup> spores/ml (fu), 10<sup>183</sup> spores/ml (fv), 10<sup>184</sup> spores/ml (fw), 10<sup>185</sup> spores/ml (fx), 10<sup>186</sup> spores/ml (fy), 10<sup>187</sup> spores/ml (fz), 10<sup>188</sup> spores/ml (ga), 10<sup>189</sup> spores/ml (gb), 10<sup>190</sup> spores/ml (gc), 10<sup>191</sup> spores/ml (gd), 10<sup>192</sup> spores/ml (ge), 10<sup>193</sup> spores/ml (gf), 10<sup>194</sup> spores/ml (gg), 10<sup>195</sup> spores/ml (gh), 10<sup>196</sup> spores/ml (gi), 10<sup>197</sup> spores/ml (gj), 10<sup>198</sup> spores/ml (gk), 10<sup>199</sup> spores/ml (gl), 10<sup>200</sup> spores/ml (gm), 10<sup>201</sup> spores/ml (gn), 10<sup>202</sup> spores/ml (go), 10<sup>203</sup> spores/ml (gp), 10<sup>204</sup> spores/ml (gq), 10<sup>205</sup> spores/ml (gr), 10<sup>206</sup> spores/ml (gs), 10<sup>207</sup> spores/ml (gt), 10<sup>208</sup> spores/ml (gu), 10<sup>209</sup> spores/ml (gv), 10<sup>210</sup> spores/ml (gw), 10<sup>211</sup> spores/ml (gx), 10<sup>212</sup> spores/ml (gy), 10<sup>213</sup> spores/ml (gz), 10<sup>214</sup> spores/ml (ha), 10<sup>215</sup> spores/ml (hb), 10<sup>216</sup> spores/ml (hc), 10<sup>217</sup> spores/ml (hd), 10<sup>218</sup> spores/ml (he), 10<sup>219</sup> spores/ml (hf), 10<sup>220</sup> spores/ml (hg), 10<sup>221</sup> spores/ml (hh), 10<sup>222</sup> spores/ml (hi), 10<sup>223</sup> spores/ml (hj), 10<sup>224</sup> spores/ml (hk), 10<sup>225</sup> spores/ml (hl), 10<sup>226</sup> spores/ml (hm), 10<sup>227</sup> spores/ml (hn), 10<sup>228</sup> spores/ml (ho), 10<sup>229</sup> spores/ml (hp), 10<sup>230</sup> spores/ml (hq), 10<sup>231</sup> spores/ml (hr), 10<sup>232</sup> spores/ml (hs), 10<sup>233</sup> spores/ml (ht), 10<sup>234</sup> spores/ml (hu),

60 :01 A L- 707 0037

**THE UNIVERSITY OF CHICAGO PRESS**

Residence

**Maduro #4**  
**Recompletion to Morrow**  
**06/30/00**

17. RIH with Globe junk basket to retrieve the CIBP.
18. POH with tubing and tools.
19. RIH with spear to fish 2-7/8" tubing in TCP. (Include jars on this trip.)
20. Tag TCP guns at 13481. Work spear into tubing.
21. POH with guns. Lay down same.
22. RIH with bit, scraper and DC's on tubing to 13595.
23. Drill 20' of cement to 13615'. Drill CIBP at 13615'.
24. CIH with tubing to 13700+/- . Circulate hole clean with 6% KCL.
25. POH. LD tools.
26. RIH with WL re-entry, 2.31" X nipple, 2 - 10' pup joints, PLS packer with 0/0 tool with 2.31" X nipple in 0/0 tool.
27. RIH with tubing, testing above slips to 8000 psi.
28. Set packer at 13380' KB in 15 pts compression.
29. ND BOP. Install tree.
30. Swab well to 4000'.
31. RU electric line. Perforate Morrow from 13626-13634, 13546-13564, 13490-13500, 13460-13480, 13442-13448. Perforate all depths at 1 SPF using 2-1/8" strip gun loaded at 1 SPF at 0 degree phasing.
32. Flow test well.
33. If necessary, acidize well with 3200 gals 10% HCL with methanol in place of the water phase and 3200 gals CO2 with 150 Bio balls.
34. Flow test and evaluate.
35. If necessary, treat zones individually with straddle pack assembly.

70-01 A L-786 8827

AFSC

