

WELL NAME & NUMBER Kachina 5 Federal #3LOCATION Section 5, Township 18S, Range 33E
(Give Unit, Section, Township and Range)1980/8 + WOPERATOR Santa Fe Energy Operating Partners L.P.DRILLING CONTRACTOR J.S.M. Drilling Company

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results;

<u>Degrees @ Depth</u>	<u>Degrees & Depth</u>	<u>Degrees @ Depth</u>
<u>.50 142</u>	<u>1.50 4120</u>	<u>3.75 6994</u>
<u>.50 320</u>	<u>1.75 4366</u>	<u>3.75 7033</u>
<u>.50 478</u>	<u>1.50 4520</u>	<u>3.75 7063</u>
<u>.25 973</u>	<u>1.75 4764</u>	<u>3.50 7094</u>
<u>.50 1457</u>	<u>2.00 5007</u>	<u>3.50 7156</u>
<u>.50 1733</u>	<u>1.50 5244</u>	<u>3.75 7217</u>
<u>.50 2041</u>	<u>1.50 5498</u>	<u>3.75 7279</u>
<u>1.00 2324</u>	<u>1.75 5763</u>	<u>3.75 7340</u>
<u>.50 2628</u>	<u>1.75 6049</u>	<u>3.75 7401</u>
<u>1.25 2947</u>	<u>2.75 6436</u>	<u>3.25 7463</u>
<u>.75 3100</u>	<u>2.75 6505</u>	<u>3.00 7553</u>
<u>1.00 3464</u>	<u>2.75 6658</u>	<u>3.00 7647</u>
<u>1.50 3895</u>	<u>3.00 6810</u>	<u>3.00 7847</u>
<u>1.50 3997</u>	<u>3.50 6933</u>	<u>3.25 7946</u>

DRILLING CONTRACTOR J.S.M. Drilling CompanyBY: Jim A. James Jim A. JamesSubscribed and sworn to before me this 5th day of MARCH, 1992Notary PublicMy Commission Expires: 1-2-93Ector County Texas

Degrees @ Depth

<u>3.00</u>	<u>8038</u>
<u>3.00</u>	<u>8222</u>
<u>3.75</u>	<u>8438</u>
<u>3.00</u>	<u>8530</u>
<u>2.75</u>	<u>8621</u>
<u>3.25</u>	<u>8714</u>
<u>2.75</u>	<u>8792</u>
<u>2.25</u>	<u>8854</u>
<u>2.50</u>	<u>8945</u>
<u>2.25</u>	<u>9098</u>
<u>2.25</u>	<u>9251</u>
<u>2.25</u>	<u>9502</u>
<u>2.50</u>	<u>9623</u>
<u>2.25</u>	<u>9874</u>
<u>1.50</u>	<u>10367</u>
<u>1.50</u>	<u>10900</u>
<u>1.50</u>	<u>11500</u>

20-025 215 1 1

Kachina 5 Feb #3-K
5-18-33