

May 20, 2003

5/16/03

30-039-27409

Jicarilla Apache Energy Corporation

JVA # 4A

155'	$\frac{3}{4}$
214'	$\frac{1}{2}$
304'	1
606'	$\frac{3}{4}$
1054'	Miss Run
1170'	$\frac{3}{4}$
1611'	$\frac{3}{4}$
2050'	1
2494'	$\frac{1}{2}$
2924'	$1 \frac{1}{4}$
3360'	$\frac{3}{4}$
3831'	1
4045'	1
4222'	$\frac{3}{4}$
4565'	$1 \frac{1}{4}$
4788'	1
4973'	$1 \frac{1}{2}$
5026'	$1 \frac{1}{2}$
5065'	$1 \frac{1}{2}$
5250'	$1 \frac{3}{4}$
5377'	2
5472'	2
5560'	Miss Run
5600'	2
5754'	2
5963'	$1 \frac{1}{2}$
6191'	$2 \frac{3}{4}$
6360'	$2 \frac{3}{4}$



The above are the surveys taken on the above well drill by Bearcat Drilling, LLC

Gary Halliburton
Signed

5/16/03
Dated

This document was subscribed and sworn to before me by Gary Halliburton on this 16th day of May, 2003.

Randy J. Martinez
Notary Public

My commission expires:

March 18, 2007

