

OIL CONSERVATION DIVISION

Directional Survey Log

MESA GRANDE RESOURCES, INC.

1200 Philtower Building

Tulsa, Oklahoma 74103

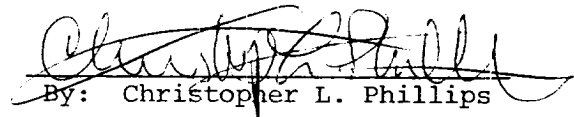
~~FEDERAL~~ HELLCAT #1 22 25N 2W

Operator Well Name No. Sec. Twp. Range

Rio Arriba County, New Mexico

<u>Date</u>	<u>Depth</u>	<u>Deviation</u>
9/27/84	500'	1/2 degree
9/28/84	851'	3/4 degree
9/28/84	1,050'	3/4 degree
9/29/84	1,365'	3/4 degree
9/29/84	1,721'	3/4 degree
9/29/84	2,121'	3/4 degree
9/30/84	2,750'	1 degree
9/30/84	3,063'	1 degree
10/01/84	3,614'	1/4 degree
10/03/84	4,115'	1 degree
10/04/84	4,738'	1 degree
10/05/84	5,141'	1/2 degree
10/06/84	5,754'	3 degrees
10/09/84	6,204'	3/4 degree
10/10/84	6,890'	3/4 degree
10/13/84	7,468'	1 1/2 degrees
10/16/84	8,024'	2 degrees T.D.


RECEIVED
NOV 04 1985
OIL CON. DIV.
DIST. 3


By: Christopher L. Phillips

STATE OF OKLAHOMA)
) SS.
COUNTY OF TULSA)

On this 30 day of October, 1985, before me personally appeared Christopher L. Phillips, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have set my hand and seal of office the 30 day of October, 1985.


Notary Public

My Commission Expires:
March 25, 1989