



UNLOCK YOUR POTENTIAL

Christy
NM
File

Key Energy Services, Inc. 7-6-04

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962



June 4, 2003

2004

Rig #44

Black Hills
PO Box 249
Bloomfield, NM 87413

This is to certify that Key Energy Services, did run deviation surveys at the listed depths on your Jicarilla 458-5 #5 well in S5-T30N-R3W in Rio Arriba County, New Mexico.

30-039-25947

Depth	Deviation	Direction	Depth	Deviation	Direction
3996'	37.1°	310.7°	5326'	88.6°	282.9°
4028'	50.8°	299.9°	5356'	90.1°	282.7°
4059'	63.5°	290.5°	5428'	90.1°	282.7°
4193'	101.8°	279.3°	5523'	88.8°	284.7°
4256'	102.3°	285.5°	5533'	89.0°	284.9°
4351'	100.7°	282.4°	5659'	90.1°	284.9°
4497'	90.4°	283.2°	5722'	90.8°	284.6°
4560'	91.2°	283.4°	5826'	91.5°	284.2°
4624'	90.1°	282.7°	5952'	91.7°	284.6°
4728'	89.2°	283.6°	6025'	90.3°	286.0°
4822'	90.1°	282.8°	6226'	85.7°	286.0°
5065'	88.6°	283.9°	6352'	87.8°	286.2°
5128'	87.6°	283.1°	6447'	88.7°	287.0°
5191'	86.9°	282.6°	6519'	88.0°	286.3°
5247'	87.9°	282.6°	6614'	86.7°	286.3°

To the best of my knowledge, I swear this information to be true.

Sincerely,

Gary Miller
District Drilling Manager



Christina Allen
Notary Public

My commission expires:

Dec 22, 2007