

FOUR CORNERS DRILLING CO.

P.O. BOX 1067
657 WILD HORSE DRIVE
FARMINGTON, NEW MEXICO 87401

TELEPHONE: (505) 327-1122

*Jicarilla Tribal Contract 4' #1
I 12-23N-4W*



January 14, 1982

Chace Oil Company
313 Washington, S.E.
Albuquerque, New Mexico 87108

Sirs:

The Four Corners Drilling Company drilled the Jicarilla 1-47 for Chace Oil Company. Deviation surveys were taken using a Shurshot 7° instrument as follows:

275'	-	1/4°	4840'	-	1 1/4°
760'	-	1/4°	5320'	-	1 1/4°
1159'	-	1/4°	5859'	-	1/2°
1604'	-	1/4°	5909'	-	1/2°
2040'	-	1/2°	6430'	-	1/2°
2510'	-	3/4°	6926'	-	3/4°
2890'	-	1 3/4°	7560'	-	3/4°
3355'	-	1 3/4°	7619'	-	3/4°
3825'	-	2°	7760'	-	3/4°
4352'	-	2 1/4°			

Very sincerely yours,

J.W. Andes
J.W. Andes

Drilling Engineer

State of New Mexico

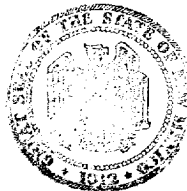
County of San Juan

Subscribed and sworn to me this 14th day of January, 1982

Frances Lipps

Notary Public

JWA:pkp



OFFICIAL SEAL

Signature _____

FRANCES LIPPS

NOTARY PUBLIC - NEW MEXICO

Notary Public files with Secretary of State

My Commission Expires: 3-29-83