



RCVD DEC 26 '13  
OIL CONS. DIV.  
DIST. 3

# HOLE DEVIATION REPORT

Operator: ELM RIDGE EXPLORATION, CO LLC.

Well Name: Jicarilla Apache F 20

Description of Lease: 1746' FSL x 877' FWL

'L' Sec. 16-T25N-R05W

Rio Arriba County

API: 30-039-31144

FROM	TO	DEVIATION
0'	636'	.50
636'	952'	.40
952'	1269'	.20
1269'	1744'	.40
1744'	2218'	.80
2218'	2694'	.70
2694'	3010'	.40
3010'	3391'	.30
3391'	4024'	.30
4024'	4341'	.30
4341'	4816'	.30
4816'	5292'	.30
5292'	5608'	.60
5608'	5894'	.30
5894'	6243'	.30
6243'	6558'	.90
6558'	6875'	.30
6875'	7097'	.50
7097'	7223'	.80
7223'	7413'	1.0
7413'	7596'	.70

7596' TD

I hearby swear or (affirm) that the statements made are a full and correct report.

Elm Ridge Exploration CO, LLC

*Nicole Alley*  
Nicole Alley

Sworn to and subscribed before me by Janet K. Mackey,

This 18th day of December 2013. To certify which witness my hand and seal of office.

*Janet K Mackey*  
Notary Public in and for San Juan  
County in the State of New Mexico.

My commission expires on: 6/23/2017