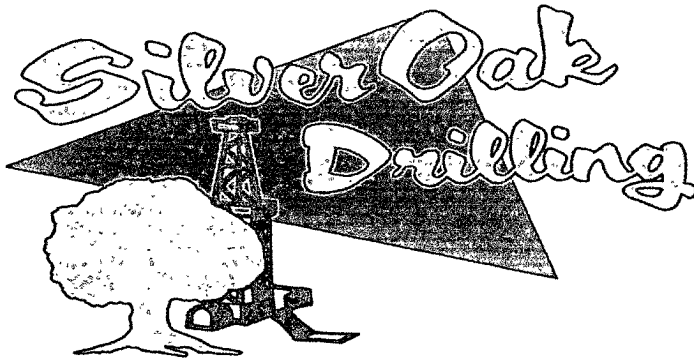




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

July 30, 2009

COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RECEIVED

AUG 31 2009

HOBBSOCD

30-025-39169

RE: JC Federal #31
490' FSL & 510' FWL
Sec. 22, T17S, R32E
Lea County, New Mexico

Unit m

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

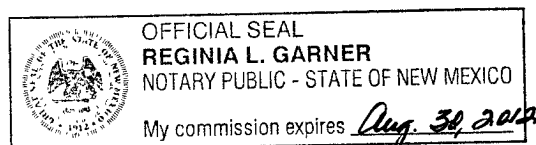
Very truly yours,

A handwritten signature in cursive script, appearing to read "Eddie C. LaRue".

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 30th day of July, 2009.

A handwritten signature in cursive script, appearing to read "Regina L. Garner".
Notary Public

KZ

3D-025-39169

Date	Depth	Deviation	TVD
7/9/2009	262.00	0.25	-
7/9/2009	474.00	1.00	514.00
7/11/2009	795.00	1.00	-
7/11/2009	1,246.00	2.25	1,286.00
7/11/2009	1,499.00	2.00	1,539.00
7/11/2009	1,657.00	2.00	1,697.00
7/13/2009	2,315.00	2.75	-
7/13/2009	2,504.00	2.00	2,574.00
7/13/2009	2,788.00	2.00	2,858.00
7/14/2009	3,038.00	1.50	-
7/14/2009	3,322.00	1.75	-
7/14/2009	3,543.00	1.50	3,613.00
7/15/2009	3,920.00	1.75	-
7/15/2009	4,206.00	1.25	-
7/15/2009	4,647.00	1.25	4,717.00
7/16/2009	5,055.00	1.25	-
7/18/2009	5,485.00	1.25	-
7/19/2009	5,958.00	1.75	-
7/20/2009	6,435.00	2.50	6,505.00
7/21/2009	6,790.00	2.75	-
7/22/2009	7,065.00	1.25	7,135.00
# EOF			