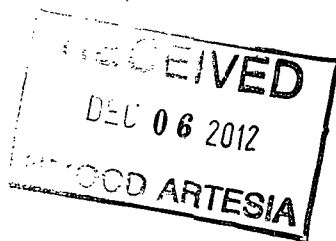


OPERATOR: COG Operating, LLC
 WELL/LEASE: Shoeless Joe 32 State Com # 1 H
 COUNTY: Eddy Co., New Mexico
 Sec. 32, T19S, R30E

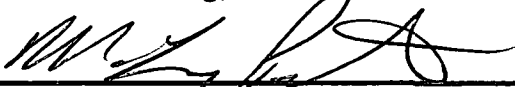
30-015-40586

**STATE OF NEW MEXICO
 DEVIATION REPORT**

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
239	1	4,085	2 1/2
448	1/4	4,369	2 1/4
1,205	4 1/4	4,464	2 1/4
1,300	3 1/4	4,559	2
1,395	3	4,653	1 1/2
1,490	2 1/2	4,718	1 1/4
1,584	2 1/2	4,843	1 1/4
1,679	2	4,902	3/4
1,774	2	5,186	1/2
1,964	3/4	5,692	1/4
2,217	1 1/2	6,167	1/2
2,628	3 1/2	6,640	3/4
2,663	3 1/4	7,083	1
2,722	9 1/2	7,557	3/4
2,727	4 1/4	8,032	1
2,758	3 1/4	8,545	1 1/2
2,795	3 1/4	9,018	2 3/4
2,827	2 3/4	9,112	2 1/2
2,853	3	9,208	3
2,885	3	9,523	1
2,916	3	9,809	1/4
2,945	2 3/4	9,998	1
2,979	2 3/4	10,366	1
3,001	2 1/2	10,541	1 3/4
3,043	2 1/2	10,573	2
3,106	2 1/4	10,604	3 1/2
3,232	1 1/4	10,625	2 3/4
3,327	1 1/4	10,730	3 1/2
3,422	3 1/4	10,777	3 1/2
3,516	4 1/2	10,809	3 1/2
3,611	4 1/4	10,825	3 3/4
3,801	4 1/2	10,857	3 3/4
3,864	5	10,935	4
3,990	4 1/4		

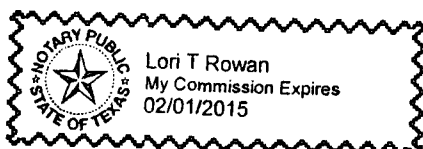


Patriot Drilling, LLC


 M. Leroy Peterson, Executive Vice-President

The foregoing instrument was acknowledged before me on this 18th day of September, 2012 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling,

My Commission Expires: 02/01/2015




 Lori T. Rowan
 Notary Public for Ector Co., Texas