

WELL LOGS

K Z

API number:	30-025-39086		
OGRID:		Operator:	COG OPERATING LLC
		Property:	GC FEDERAL # 12

surface	ULSTR:	M	30	T	17S	R	32E
	LOT 4		990	FSL		330	FWL

BH Loc	ULSTR:	M	30	T	17S	R	32E
	LOT 4		990	FSL		330	FWL

Ground Level:	3912	DF:	3923	KB:	3924	
Datum:	KB			TD:	6928	

Land: **FEDERAL**

Completion Date: (1) 12/1/2008
 Date Logs Received: 2/11/2009 ***LATE***
 Date Logs Due in: (2) 12/21/2008

Confidential:	NO			Date out:		
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Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
ZDL/CN	100	6922	Dual Spaced Neutron Spectral Density
DLL/MLL	2160	6922	Dual Laterolog Micro SFL Log

K Z

OCD TOPS

Rustler	610	Strawn		
Tansill		Atoka		
Yates	1937	Morrow		
7 rvs	2300			
	2660	Austin		
	2730	Chester		
Queen	2904	Miss Lime		
Penrose				
Grayburg	3262			
San Andres	3613			
Glorieta	5192			
Yeso	5257			
Blinebry				
Tubb				
Drinkard				
Abo				
Wolfcamp				

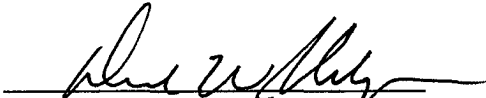
30-025-39086

OPERATOR	COG
WELL/LEASE	GC Fed 12 N-19-17s-32e
COUNTY	Lea 990/s & 330/w

STATE OF NEW MEXICO
DEVIATION REPORT

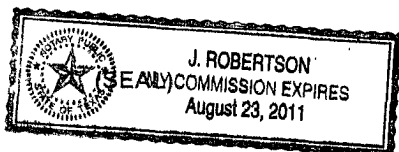
267	0.50
536	0.75
586	1.00
867	0.50
1217	0.75
1534	0.75
1882	1.00
2136	1.00
2412	0.50
2730	0.50
3057	0.50
3343	0.50
3680	0.50
3978	0.50
4295	0.50
4632	0.50
4950	0.50
5298	0.50
5583	0.50
5901	1.00
6218	0.50
6535	1.00
6878	1.50

SIGNED BY:


DAVID SLEDGE, VP-DRILLING

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS 14 DAY OF November, 2008, BEFORE ME, J ROBERTSON, A NOTARY
PUBLIC, PERSONALLY APPEARED DAVID SLEDGE, WHO ACKNOWLEDGED AND EXECUTED
THIS DOCUMENT. WITNESS MY HAND AND OFFICIAL SEAL.




NOTARY PUBLIC

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