

WELL LOGS

K Z

API number:	30-025-38738		
OGRID:		Operator:	COG OPERATING LLC
		Property:	MC FEDERAL # 14

surface	ULSTR:	B	21	T	17S	R	32E
			330	FNL	2010	FEL	

BH Loc	ULSTR:	B	21	T	17S	R	32E
			330	FNL	2010	FEL	

Ground Level:	4026	DF:	4037	KB:	4038	
Datum:	KB			TD:	7015	

Land: **FEDERAL**

Completion Date: (1) **10/8/2008**
 Date Logs Received: **11/17/2008** ***Late***
 Date Logs Due in: (2) **10/28/2008**

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	7009	Dual Spaced Neutron Spectral Density
DLL/MLL	2180	7009	Dual Laterolog Micro SFL Log

K Z

OCD TOPS

Rustler	815	Strawn			
Tansill		Atoka			
Yates	2130	Morrow			
7 rvs	2480				
	2829	Austin			
	2905	Chester			
Queen	3082	Miss Lime			
Penrose	3260				
Grayburg	3455				
San Andres	3826				
Glorieta	5349				
Yeso	5385				
Blaine					
Tubb	6826				
Drinkard					
Abo					
Wolfcamp					

OPERATOR COG
WELL/LEASE MC Fed 14 B-21-17s-32e
COUNTY Lea 330/N & 2010/E

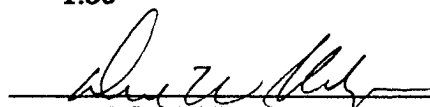
OCT 13 2008

STATE OF NEW MEXICO
DEVIATION REPORT

30 - 025 - 38738

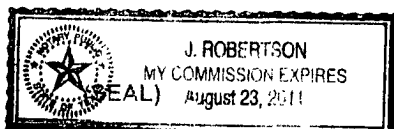
240	1.00
509	0.25
719	0.75
799	1.00
1093	0.50
1346	0.75
1600	0.75
1853	1.25
2165	1.00
2170	1.00
2610	1.00
2928	3.00
2959	1.00
3276	1.75
3383	1.75
3478	1.50
3573	1.75
3656	2.50
3752	2.00
3857	2.00
3952	2.00
4049	2.50
4175	1.25
4300	1.25
4459	0.75
4619	1.50
4756	1.00
4851	1.00
4947	1.00
5042	1.00
5136	1.00
5231	1.50
5327	1.00
5422	0.50
5561	1.00
5719	1.00
5877	1.00
6024	0.50
6290	0.50
6531	1.00
6867	0.50
6965	1.50

SIGNED BY:


DAVID SLEDGE, VP-DRILLING

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS 3rd DAY OF October, 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