

WELL LOGS

K Z

API number:	30-025-38716		
OGRID:		Operator:	COG OPERATING LLC
		Property:	MC FEDERAL # 23

surface	ULSTR:	A	21	T	17S	R	32E
			990	FNL	480	FEL	

BH Loc	ULSTR:	A	21	T	17S	R	32E
			990	FNL	480	FEL	

Ground Level:	4014	DF:	4025	KB:	4026	
Datum:	KB			TD:	6999	

Land: **FEDERAL**

Completion Date: (1) **11/11/2008**

Date Logs Received: **12/16/2008**

LATE

Date Logs Due in: (2) **12/1/2008**

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	6989	Dual Spaced Neutron Spectral Density
DLL/MLL	2196	6960	Dual Laterolog Micro SFL Log

K Z

OCD TOPS

Rustler	812	Strawn		
Tansill		Atoka		
Yates	2126	Morrow		
7 rvrs	2480			
		Austin		
		Chester		
Queen	3079	Miss Lime		
Penrose				
Grayburg	3458			
San Andres	3668			
Glorieta	5337			
Yeso	5416			
Blaineby				
Tubb	6821			
Drinkard				
Abo				
Wolfcamp				

OPERATOR _____ COG _____
WELL/LEASE _____ MC Fed 23 *A-21-17s-32e*
COUNTY _____ Lea *990/N4 480/E*

STATE OF NEW MEXICO
DEVIATION REPORT

30-025-38716

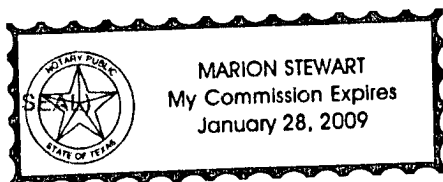
266	1.00
535	1.25
805	1.00
1120	1.00
1373	1.00
1627	1.00
1879	1.00
2132	2.00
2375	0.25
2636	0.50
2952	0.25
3202	0.25
3458	0.75
3711	0.75
3966	0.75
4221	0.75
4471	1.00
4759	0.25
5044	0.75
5298	0.50
5552	0.50
5806	0.75
6060	0.75
6312	1.00
6630	1.00
6926	1.00

SIGNED BY:

[Signature]
DAVID SLEDGE, VP-DRILLING

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS *30* 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.



[Signature]
NOTARY PUBLIC

[Signature]