

WELL LOGS

K Z

API number:	30-025-38998		
OGRID:		Operator:	COG OPERATING LLC
		Property:	MC FEDERAL # 29

surface	ULSTR:	K	21	T	17S	R	32E
			2410	FSL	1650	FWL	

BH Loc	ULSTR:	K	21	T	17S	R	32E
			2410	FSL	1650	FWL	

Ground Level:	4037	DF:	4048	KB:	4049	
Datum:	KB			TD:	7025	

Land: **FEDERAL**

Completion Date: (1) **12/6/2008**
 Date Logs Received: **1/8/2009**
 Date Logs Due in: (2) **12/26/2008**

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		
TD LD CN/GR	200	7000	Three Detector Litho-Density
HRLA	2175	6960	High Resolution Laterolog

K Z

OCD TOPS

Rustler	790	Strawn		
Tansill		Atoka		
Yates	2117	Morrow		
7 rvs	2472			
	2817	Austin		
	2898	Chester		
Queen	3078	Miss Lime		
Penrose				
Grayburg	3446			
San Andres	3807			
Glorieta	5348			
Paddock	5444			
Blaine				
Tubb				
Drinkard				
Abo				
Wolfcamp				

OPERATOR COG Operating

WELL/LEASE MC Fed 29

COUNTY Lea

K-21-175-32e

2410/5 & 1650/w

STATE OF NEW MEXICO
DEVIATION REPORT

30-025-38998

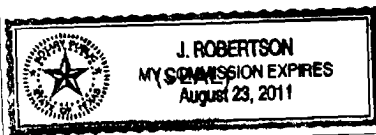
271	0.50
539	1.00
786	1.00
1029	0.75
1283	0.50
1535	0.50
1789	0.75
2043	1.00
2170	1.00
2483	0.50
2672	0.50
2989	0.50
3306	0.50
3623	1.00
3941	1.50
4068	1.50
4330	1.00
4615	1.00
4829	0.50
5123	1.00
5306	1.00
5559	1.25
5842	1.00
6097	1.00
6349	0.50
6637	0.50
6950	0.50

SIGNED BY:

David Sledge
DAVID SLEDGE, VP-DRILLING

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS 30th DAY OF December, 2008, BEFORE ME, J ROBERTSON, A NOTARY PUBLIC, PERSONALLY APPEARED DAVID SLEDGE, WHO ACKNOWLEDGED AND EXECUTED THIS DOCUMENT. WITNESS MY HAND AND OFFICIAL SEAL.



J. Robertson
NOTARY PUBLIC