

WELL LOGS

K Z

38836

API number:	30-025-36328		
OGRID:		Operator:	COG OPERATING LLC
		Property:	JC FEDERAL # 16

surface	ULSTR:	C	22	T	17S	R	32E
			1060	FNL	1575	FWL	

BH Loc	ULSTR:	C	22	T	17S	R	32E
			1060	FNL	1575	FWL	

Ground Level:	4007	DF:	4018	KB:	4019	
Datum:	KB			TD:	6961	

Land: **FEDERAL**

Completion Date: (1) **12/9/2008**
 Date Logs Received: **2/11/2009** ***LATE***
 Date Logs Due in: (2) **12/29/2008**

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	6957	Three Detector Litho-Density
HRLA	2192	6928	High Resolution Laterolog

K Z

OCD TOPS

Rustler	827	Strawn		
Tansill		Atoka		
Yates	2135	Morrow		
7 rvs	2486			
	2837	Austin		
	2914	Chester		
Queen	3090	Miss Lime		
Penrose				
Grayburg	3473			
San Andres	3874			
Glorieta	5365			
Yeso	5447			
Blinbry				
Tubb				
Drinkard				
Abo				
Wolfcamp				

OPERATOR COG Operating

WELL/LEASE JC Fed 16

COUNTY Lea

C-22-17s-32e

1060 N 4 1575(W)

STATE OF NEW MEXICO
DEVIATION REPORT

30-025-38836

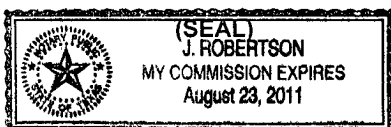
298	0.75
537	0.25
804	0.75
1154	0.25
1436	1.00
1688	0.50
1973	1.25
2258	1.25
2514	0.50
2766	1.00
3021	0.50
3275	0.50
3561	0.75
3815	0.75
4068	1.00
4323	1.50
4672	1.50
4577	2.00
4766	1.00
4892	0.75
5146	1.00
5399	1.00
5685	1.00
5936	1.00
6221	1.00
6293	1.00
6475	1.00
6729	1.00
6888	0.75

SIGNED BY:

DAVID SLEDGE, VP-DRILLING

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS 15th 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.



KS

NOTARY PUBLIC