

WELL LOGS

K Z

API number:	30-025-38830	
OGRID:		Operator: COG OPERATING LLC
		Property: JC FEDERAL # 18

surface	ULSTR: L	22	T	17S	R	32E
		1650	FSL	480	FWL	

BH Loc	ULSTR: L	22	T	17S	R	32E
		1650	FSL	480	FWL	

Ground Level:	4029	DF:	4040	KB:	4041	
Datum:	KB			TD:	7007	

Land: **FEDERAL**

Completion Date: (1) **10/24/2008**
 Date Logs Received: **11/25/2008** ***LATE***
 Date Logs Due in: (2) **11/13/2008**

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	2190	7005	Dual Spaced Neutron Spectral Density
DLL/MLL	200	6962	Dual Laterolog Micro SFL Log

K Z

OCD TOPS

Rustler	830	Strawn			
Tansill		Atoka			
Yates	2156	Morrow			
7 rvrs	2513				
	2862	Austin			
	2935	Chester			
Queen	3110	Miss Lime			
Penrose					
Grayburg	3482				
San Andres	3915				
Glorieta	5384				
Yeso	5502				
Blinbry					
Tubb	6900				
Drinkard					
Abo					
Wolfcamp					

OPERATOR _____ COG _____
WELL/LEASE _____ J C Fed 18 L-22-175-32e
COUNTY _____ Lea 1650/54 480/w

STATE OF NEW MEXICO
DEVIATION REPORT

3D-025-38830

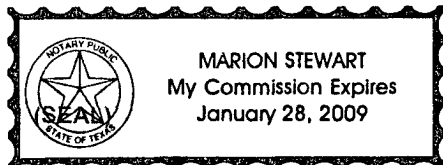
207	0.75
267	0.75
539	0.75
850	1.00
1163	1.00
1480	0.75
1797	1.75
1932	1.50
1987	1.50
2171	1.25
2368	2.00
2450	0.50
2799	0.50
3115	0.50
3433	0.50
3750	0.50
4067	1.00
4384	3.00
4426	3.00
4513	0.50
4543	2.75
4606	1.00
4733	1.00
4764	2.50
4828	2.00
4996	2.50
5091	0.50
5217	2.00
5242	2.75
5368	2.75
5535	2.75
5693	2.75
5852	2.75
6010	2.50
6317	2.50
6476	2.00
6606	1.75
6927	1.25

SIGNED BY:

David Sledge
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.



Marion Stewart
NOTARY PUBLIC
KZ