

WELL LOGS

K z

API number:	30-025-40076		
OGRID:		Operator:	COG OPERATING LLC
		Property:	RANGER LAKE 1 STATE # 1H

surface	ULSTR:	H	01	T 13S	R 34E
			2015	FNL	430
				FEL	

BH Loc	ULSTR:	E	01	T 13S	R 34E
			2017	FNL	347
				FWL	

Ground Level:	4120	DF:	4137	KB:	4138	
Datum:	KB			MD:	13654	TVD: 9211

	Completion Date: (1)	10/27/2011	
	Date Logs Received:	11/21/2011	***Late***
	Date C105 Received:	11/21/2011	***Late***
	Date Logs/C105 Due in: (2)	11/16/2011	

Land: STATE

Confidential:	NO			Date out:	
---------------	----	--	--	-----------	--

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	
DN/N	100 9697	Density Neutron Log
HRLA	4336 9697	High Resolution Laterolog

K z

OCD TOPS

Rustler	2015	Strawn		
Tansill		Atoka		
Yates	2854	Morrow		
7 rvs	2998			
T. Bowers Sd		Austin		
B. Bowers Sd		Chester		
Queen	3633	Miss Lime		
Penrose		Woodford		
Grayburg	3974	Devonian		
San Andres	4339	Silurian		
Glorieta	5700	Fusselman		
Yeso	5810	Montoya		
Blinbry		Simpson		
Tubb	7100	Mckee		
Lower Yeso	7388	Ellenburger		
Abo	7817	Granite Wash		
Wolfcamp	9340	preCambrian		

DEC 07 2011