

WELL LOGS

K_z

API number:	30-025-40180		
OGRID:		Operator:	MACK ENERGY CORP
		Property:	RANGER FEDERAL # 1

surface	ULSTR:	D	1	T	18S	R	32E
			990	FNL		990	FWL

BH Loc	ULSTR:	D	1	T	18S	R	32E
			990	FNL		990	FWL

Ground Level:	3919	DF:	3935	KB:	3936	
Datum:	KB			TD:	9365	

Land: **FEDERAL**

Completion Date: (1) **1/18/2013**

Date Logs Received: **2/15/2013**

Date C105 Received: **2/15/2013**

Date Logs/C105 Due in: (2) **2/7/2013**

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	100	9362	Three Detector Litho-Density

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OCD TOPS

Rustler	1310	Bone Spring	6030	
Tansill	2617	1st Sd		
Yates	2764	2nd Carb		
7 rvs	3252	2nd Sd		
	3650	3rd Carb		
	3754	3rd Sd		
Queen	3974	Wolfcamp		
Penrose	4230			
Grayburg	4497	Strawn		
San Andres		Atoka		
Glorieta		Morrow		
Yeso				
Abo				
		Barnett Sh		
Capitan Reef		Miss Lime		
Getaway Bank				
Delaware Sd	4908			

MAR 05 2013