

# GRAND MESA OPERATING COMPANY

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1700 N. WATERFRONT PARKWAY  
BLOC 800  
WICHITA, KANSAS 67205-5514

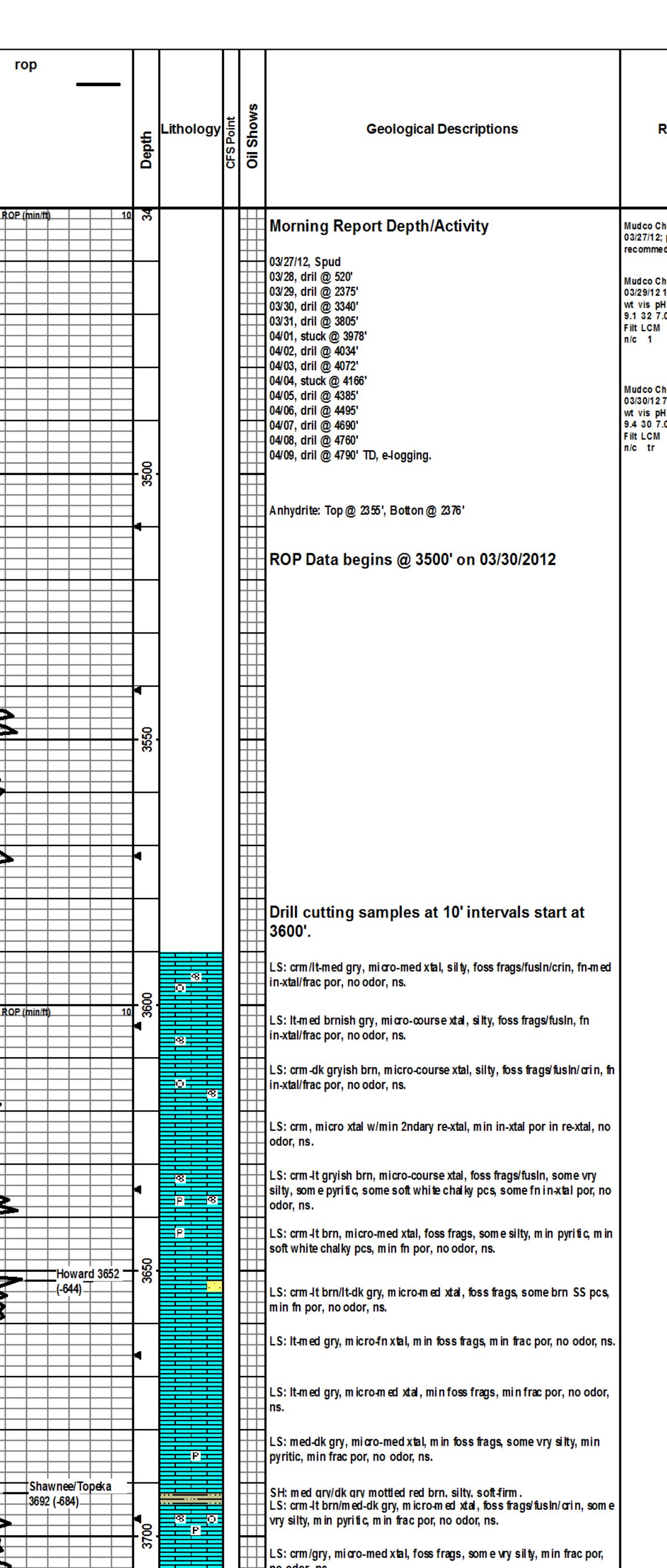
Scale 1:240 (5' = 100') Imperial  
Measured Depth Log

Well Name: Griffith #1-23  
Location: 1268' FSL, 2129' FEL, 23-16S-33W, Scott County, Kansas  
License Number: API: 15-171-20870 Region: Scott County  
Spud Date: 03/27/2012 Drilling Completed: 04/08/2012  
Surface Coordinates: Lat: 38.649792 Long: -100.9330389  
Bottom Hole Vertical hole  
Ground Coordinates: Elevation (ft): 3003' To: RTD K.B. Elevation (ft): 3008'  
Logged Interval (ft): 3600' RTD Total Depth (ft): 4790'  
Formation: Mississippian at RTD  
Type of Drilling Fluid: Chemical

Printed by MUD LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## GEOLOGIST

Name: Kent R. Matson  
Company: Matson Geological Services, LLC  
Address: 33300 W. 15th Street S.  
Garden Plain, Kansas 67050  
316-644-1975



## COMMENTS

Contractor: Murfin Drilling Company Rig #24  
Pusher: Tony Martin  
Surface Casing: 8 5/8" set at 229' (KB) w/165sx  
Production Casing: Production casing was not installed and the hole was plugged and abandoned based on field observations of drill cuttings, DST results and electric log review.  
Mud by: MudCo  
DST by: Tritobite Testing  
Logs by: Weatherford (DL, CN-CD, ML, Sonic)  
RTD= 4790'  
LTD= 4790'

## FORMATION TOPS

FORMATION	SAMPLE TOPS	LOG TOPS
	Depth Datum	Depth Datum
Queen Hill	3865' -857	3864' -856
Heebner Shale	3928' -920	3926' -918
Toronto	3948' -940	3948' -940
Lansing	3970' -962	3969' -961
Muncie Creek Shale	4148' -1140	4147' -1139
Stark Shale	4239' -1231	4237' -1229
Hushpuckney Shale	4287' -1279	4286' -1278
Marmaton	4359' -1351	4357' -1349
Upper Fort Scott	4466' -1458	4464' -1456
Little Osage Shale	4488' -1481	4488' -1480
Excello Shale	4505' -1497	4504' -1496
Johnson Zone	4579' -1571	4578' -1570
Morrow	4633' -1625	4632' -1624
Mississippian	4691' -1683	4691' -1683
RTD	4790' -1782	4790' -1782
LTD		

