

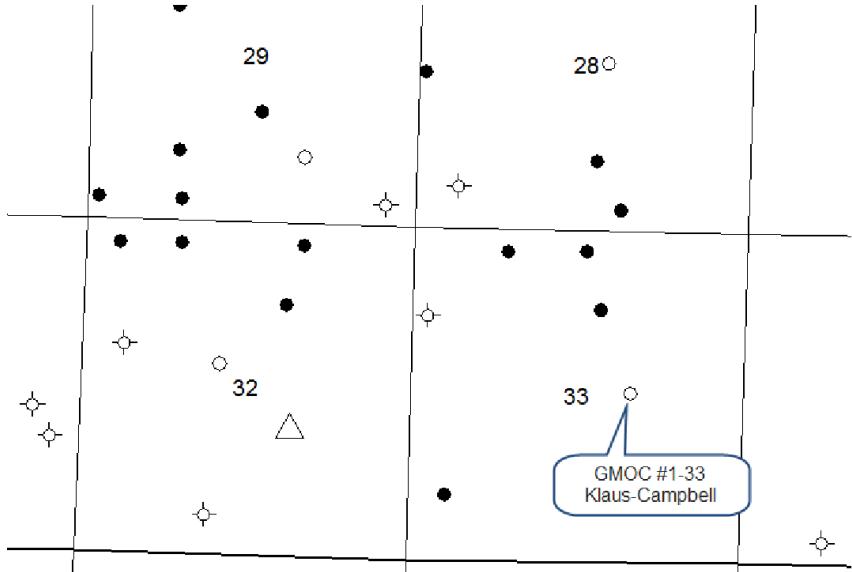
**GRAND
MESA****OPERATING COMPANY**(316) 265-3000
FAX: (316) 265-34551700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: #1-33 Klaus-Campbell
Location: 2581' FNL 1797' FEL 33-13s-31w, Gove County, Kansas
License Number: API: 15-063-21938 Region: Antelope Ridge
Spud Date: 8/16/2011 Drilling Completed: 8/23/2011
Surface Coordinates: LAT: 38.880957
LONG: -100.766931
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 2893 K.B. Elevation (ft): 2898
Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4700
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: Steven P. Carl and John Goldsmith
Company: Grand Mesa Operating Company
Address: 1700 N. Waterfront Parkway, Bldg 600
Wichita, Kansas 67206
316-256-3000

**COMMENTS**

Contractor: Murfin Drilling Company Rig #24
Pusher: Tony Martin
Surface Casing: 8 5/8" set at 220'
Production Casing: 5 1/2" set at 4700' to further evaluate the Johnson zone.
Mud by: MudCo
DST's by: Superior Testing
Logs by: Weatherford (DIL, CN-CD, ML)
RTD=4700'
LTD=4694'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stone Corral	2386'	+512	2381'	+517
B/Stone Corral	2408'	+490	2533'	+494

Heebner Shale	3921'	-1023	3915'	-1017
Lansing	3959'	-1061	3954'	-1056
Muncie Creek Shale	4115'	-1217	4109'	-1211
Stark Shale	4203'	-1305	4197'	-1299
Hushpuckney Shale	4240'	-1342	4233'	-1335
Marmaton	4312'	-1414	4309'	-1411
Upper Fort Scott	4408'	-1510	4406'	-1508
Little Osage Shale	4432'	-1534	4428'	-1530
Excelfo Shale	4459'	-1561	4454'	-1556
Johnson Zone	4534'	-1636	4528'	-1630
Morrow	4563'	-1665	4558'	-1660
Mississippian	4594'	-1696	4588'	-1690
RTD	4700'	-1802		
LTD			4735'	-1697

