GRAND MESA OPERATING COMPANY

1700 N. WATERFRONT
PARKWAY, BUILDING 600
WICHITA, KANSAS 67206-6353

TRIGG "A" #1 (SWD)

SE/SW - SEC. 36-T15S-R17W
Ellis County, Kansas

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

Well Name: #1-32 Shell
Location: SE/SW - 660' FSL, 33-16s-33w, Scott County, Kansas
Elevation: KB: 2187 GL: 2180'
Spud Date: 9-30-2011
Surface Coordinates: 1980' FSL & 1980' FEL
Latitude: N 38.4811000
Longitude: -100.0811000
Bottom Hole Coordinates: Vertical hole

Ground Elevation (ft): 3037
Logged Interval (ft): 3600' To: 4750
Total Depth (ft): 4800'
Type of Drilling Fluid: Chemical

Formation: Mississippian
Depth Reached: 4750'
Total Depth (ft): 4800'
Drilling Completed: 11-11-14

Rig: Wildcat
Drilling Completed: 11-11-14

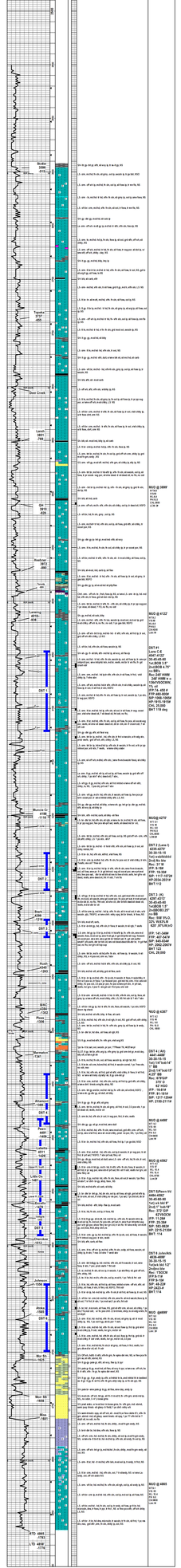
Prepared by WellLOG from WellSight Systems 1-800-447-1534 www.WellSight.com

GEOLOGIST

Name: Bob Schreiber
Company: Grand Mesa Operating
Address: 100 NE 230 Rd
Pratsburg,KS 67344
620-653-7451

COMMENTS

Contractor:Duke Drilling Co Rig #4
Pusher: Rich Wheeler
Surface Casing: 8 5/8" set at 237' w/165sx
Production Casing: Dry hole - 3 1/2" set at 4640'
Mud by: MudCo
DST's by: Diamond Testing
Logs by: Nabors Log Dfw, CN-CD, ML, SONIC
8 TOH-0400
1 TOH-0600

FORMATION TOPS

FORMATION	SAMPLE TOPS Depth	Datum	LOG TOPS Depth	Datum
Stone Corral	2412'	+970	2408'	+974
B/Stone Corral	2452'	+930	2428'	+970
Topeka	3596'	-214	3592'	-208
Heebner Shale	3812'	-430	3807'	-423
Toronto	3835'	-453	3831'	-423
Muncie Creek Shale	4108'	-726	4106'	-711
Stark Shale	4206'	-824	4206'	-809
Base KC	4310'	-928	4310'	-913
Marmaton	4414'	-1032	4414'	-1017
Upper Fort Scott	4525'	-1143	4514'	-1122
Little Osage Shale	4547'	-1165	4546'	-1154
Excello Shale	4591'	-1479	4593'	-1470
Johnson Zone	4638'	-1526	4637'	-1549
Mississippian	4700'	-1588	4700'	-1612
Warsaw	4740'	-1628	4734'	-1646
Mississippian	4763'	-1651	4757'	-1675
LTD	4800'	-1688		
RTD			4808	-1776