

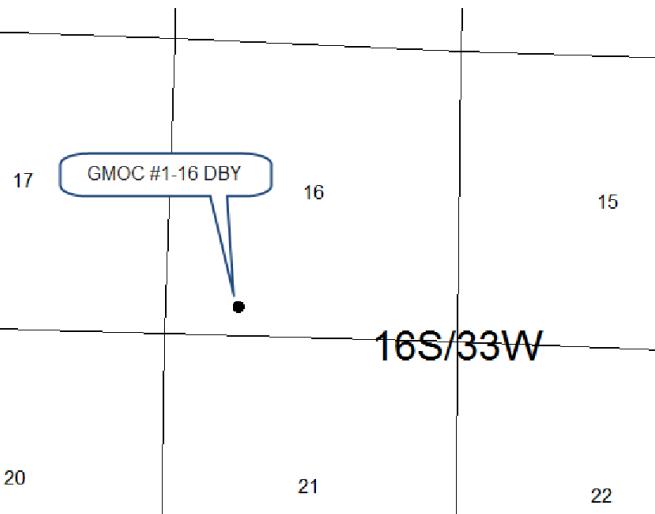
**GRAND
MESA****OPERATING COMPANY**(316) 265-3000
FAX: (316) 265-34551700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: #1-16 DBY
Location: 524'FSL, 1307'FWL, 16-16s-33w, Scott County, Kansas
License Number: API: 15-171-20822 Region: Wildcat
Spud Date: 7-22-2011 Drilling Completed: 8/7/2011
Surface Coordinates: Lat: 38.657562 734346
Long: -100.976284 1292929
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 3075' K.B. Elevation (ft): 3086'
Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4900
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
Company: Grand Mesa Operating Company
Address: 1700 N. Waterfront Parkway, Bldg 600
Wichita, Kansas 67206
316-256-3000

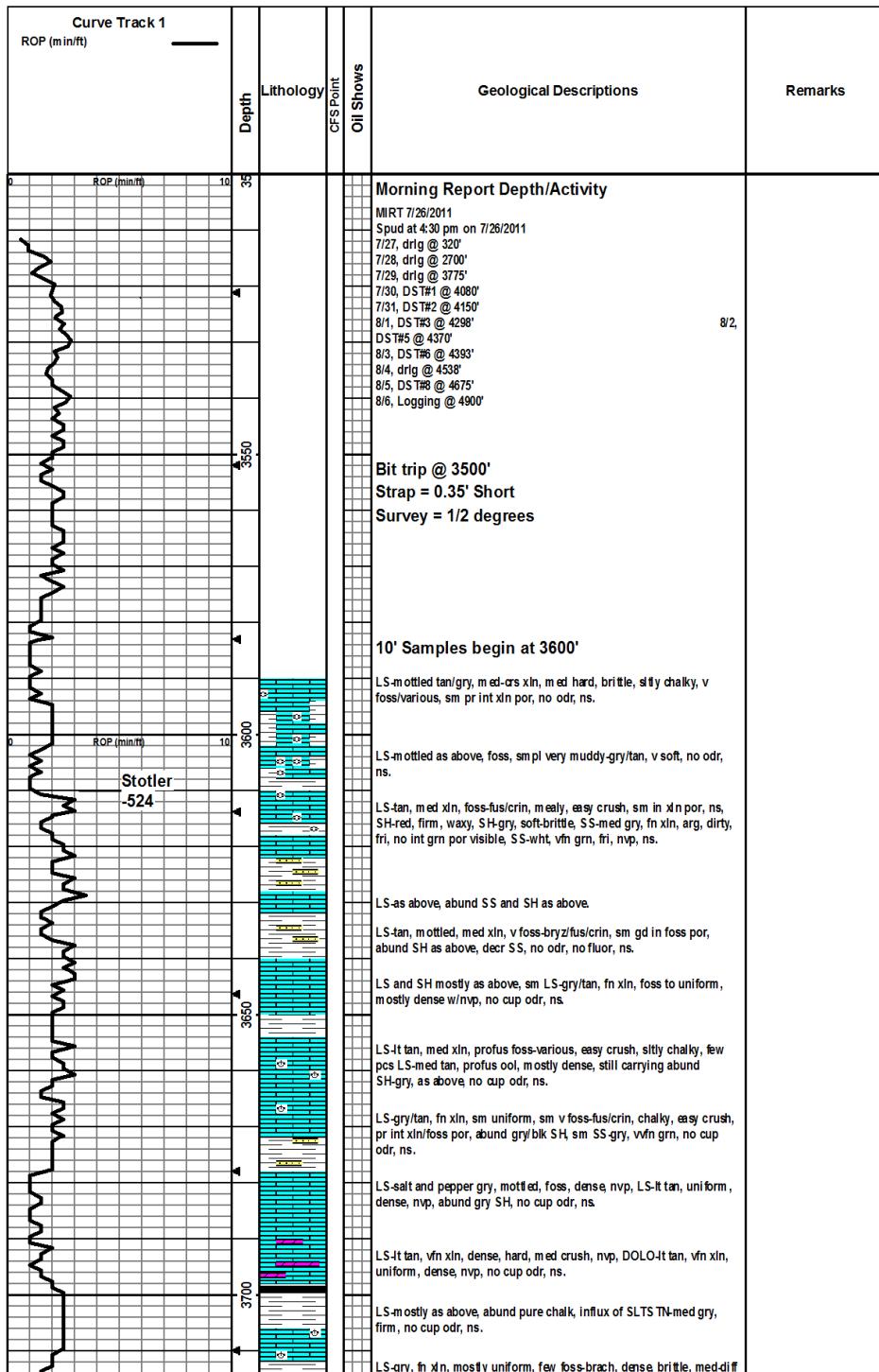
**COMMENTS**

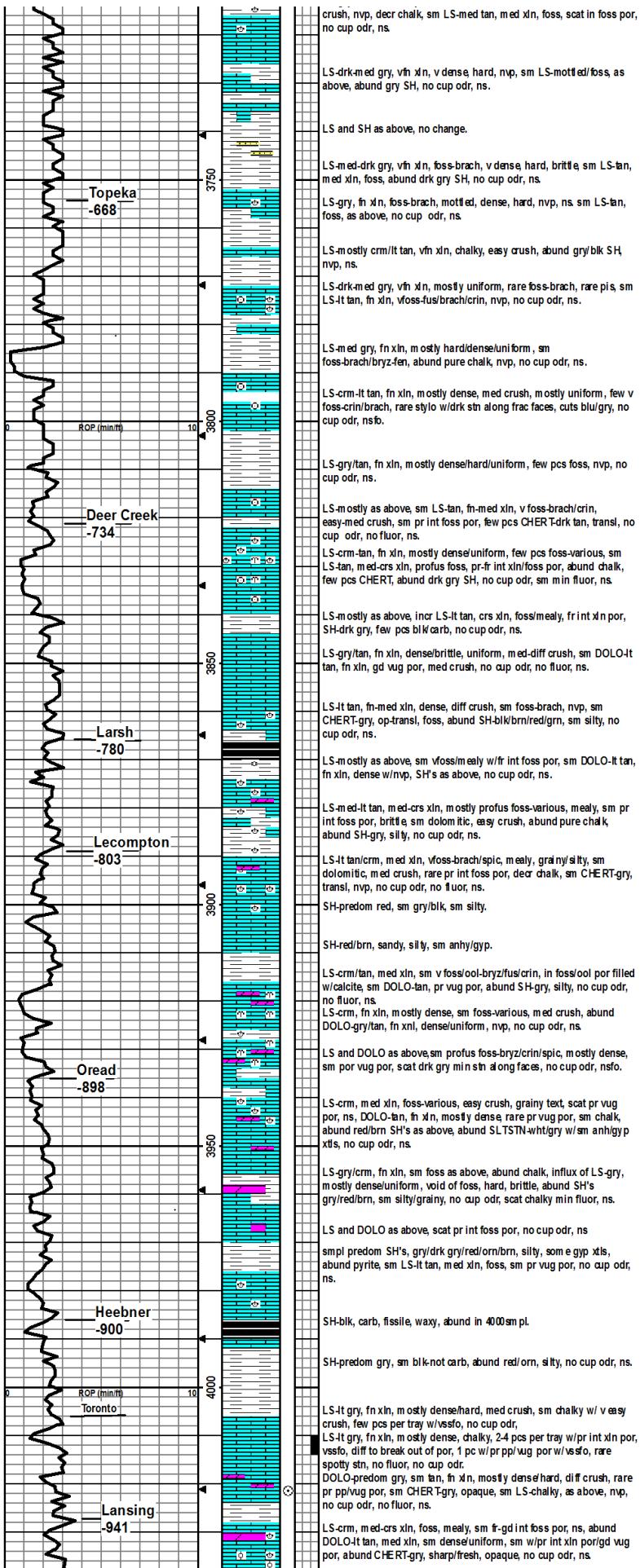
Contractor: Murfin Drilling Company Rig #22
Pusher: Kelly Wilson
Surface Casing: 8 5/8" set at 226'
Production Casing: 5 1/2" set at 4896', to further test the Swope, Hertha, Johnson, Atoka.
Mud by: MudCo
DST's by: Trilobite Testing
Logs by: Weatherford (DIL, CN-CD, ML, SON, IMAGE)
RTD=4900'
LTD=4902'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stone Corral	2439'	+647	2439'	+647
B/Stone Corral	2457'	+629	2458'	+628
Heebner Shale	3986'	-900	3988'	-902
Lansing	4027'	-941	4030'	-944
Muncie Creek Shale	4200'	-1114	4198'	-1112

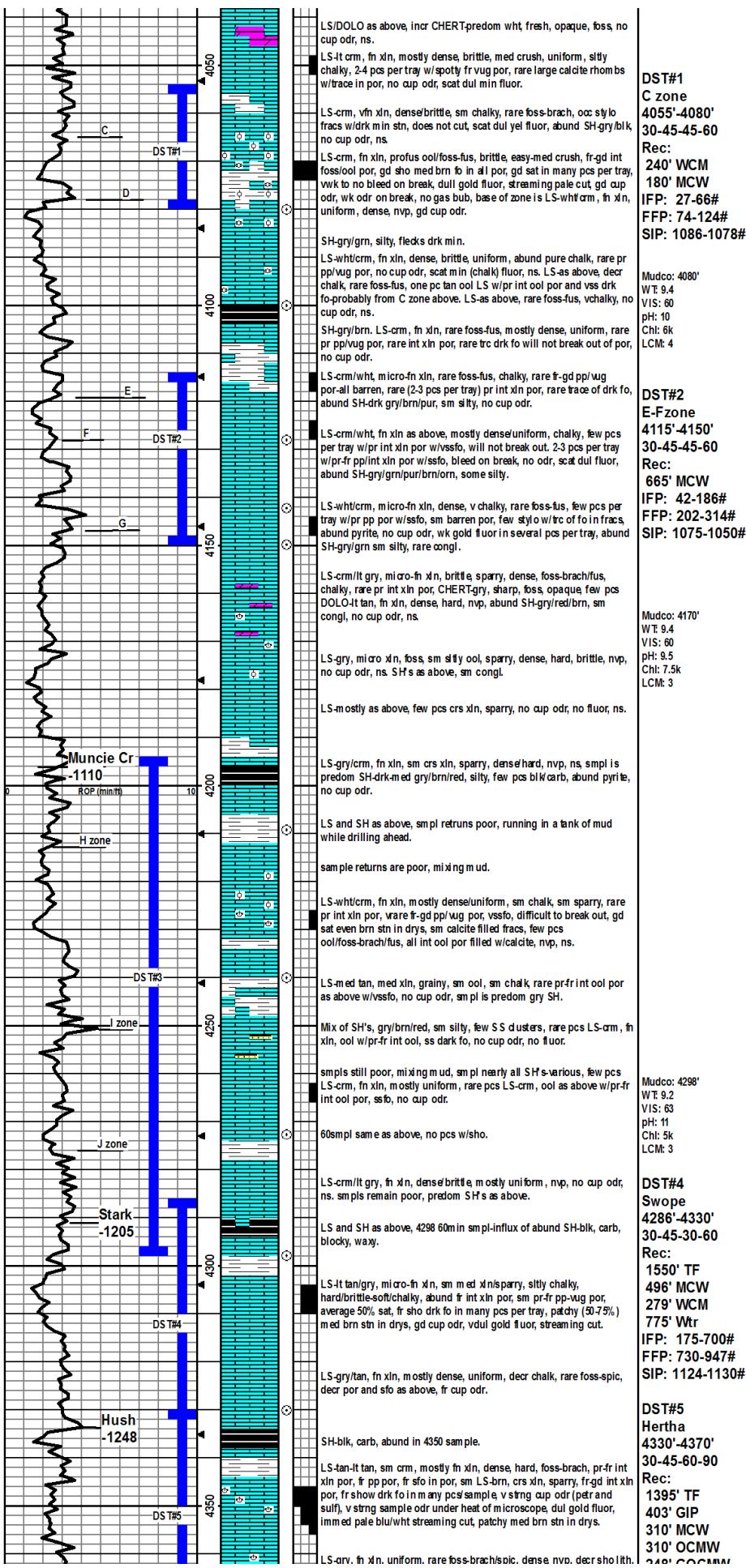
Stark Shale	4291'	-1205	4292'	-1206
Hushpuckney Shale	4334'	-1248	4334'	-1248
Marmaton	4404'	-1318	4409'	-1323
Little Osage Shale	4540'	-1454	4541'	-1445
Morrow	4696'	-1610	4698'	-1612
Mississippian	4743'	-1657	4743'	-1657
RTD	4900'	-1814		
LTD			4902'	-1816





Mudco: 3870'
WT: 9.2
VIS: 55
pH: 9.0
Chi: 5k
LCM: 3#

Samples poor, a lot of SH sluff, red/gry.



DST#1

C zone

4055'-4080'

30-45-45-60

Rec:

240' WCM

180' MCW

IFP: 27-66#

FFP: 74-124#

SIP: 1086-1078#

Mudco: 4080'

WT 9.4

VIS: 60

pH: 10

Chi: 6k

LCM: 4

DST#2

E-F zone

4115'-4150'

30-45-45-60

Rec:

665' MCW

IFP: 42-186#

FFP: 202-314#

SIP: 1075-1050#

Mudco: 4170'

WT 9.4

VIS: 60

pH: 9.5

Chi: 7.5k

LCM: 3

Mudco: 4298'

WT 9.2

VIS: 63

pH: 11

Chi: 5k

LCM: 3

DST#4

Swope

4286'-4330'

30-45-30-60

Rec:

1550' TF

496' MCW

279' WCM

775' Wtr

IFP: 175-700#

FFP: 730-947#

SIP: 1124-1130#

DST#5

Hertha

4330'-4370'

30-45-60-90

Rec:

1395' TF

403' GIP

310' MCW

310' OCMW

