

(316) 265-3000 FAX: (316) 265-3455

## OPERATING COMPANY

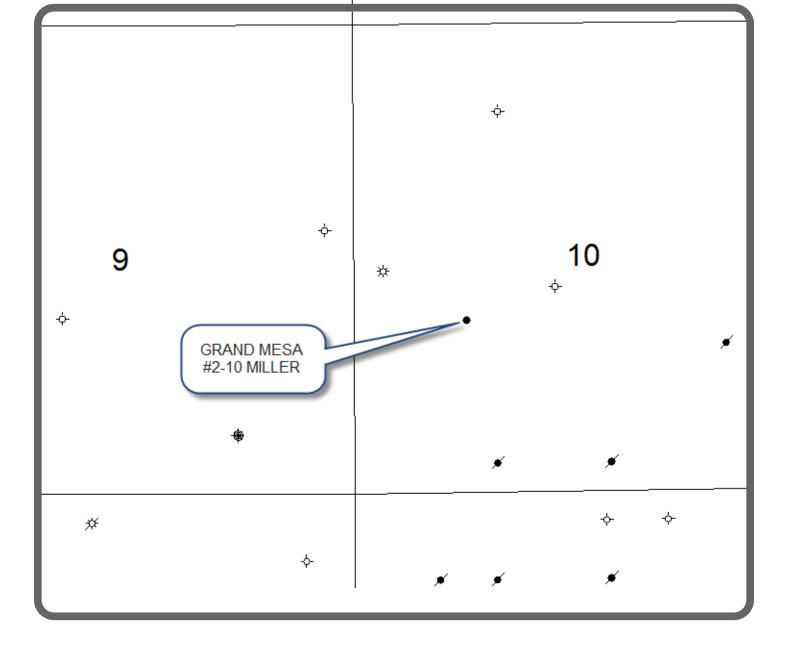
1700 N. WATERFRONT PARKWAY BLDG, 600 WICHITA, KANSAS 67206-5514

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

API:	#2-10 MILLER 15-155-21759 1950 FSL, 1273F	FWL SEC 10-23S-10W RENO COUNTY KANSAS
License Number:		Region:
Spud Date:	09/14/2018	Drilling Completed: 09/21/2018
Surface Coordinates:	Lat: 38.0618	
	Long: -98.4128	
Bottom Hole	Vertical hole	
Coordinates:		
Ground Elevation (ft):	1765	K.B. Elevation (ft): 1770
Logged Interval (ft):		
Formation:	Simpson	
Type of Drilling Fluid:	Chemical	
		Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

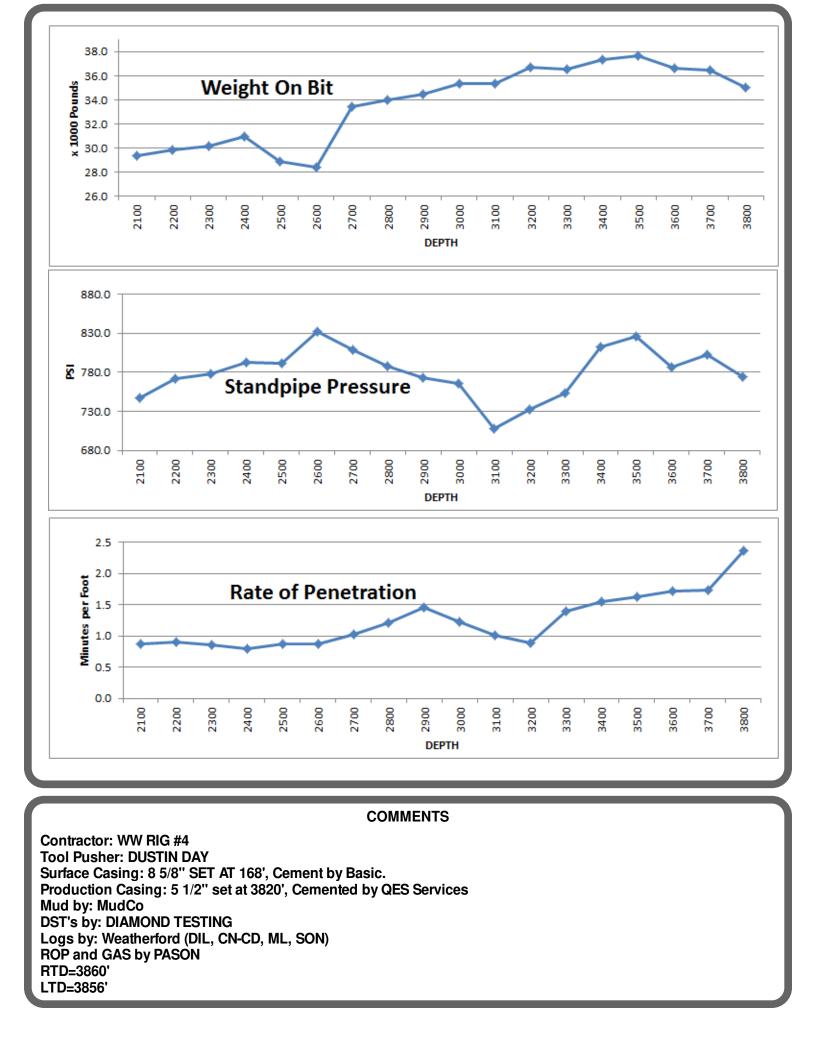
## GEOLOGIST

Name: Steven P. Carl Company: Grand Mesa Operating Company Address: 1700 N. Waterfront Parkway, Bldg 600 Wichita, Kansas 67206 316-256-3000

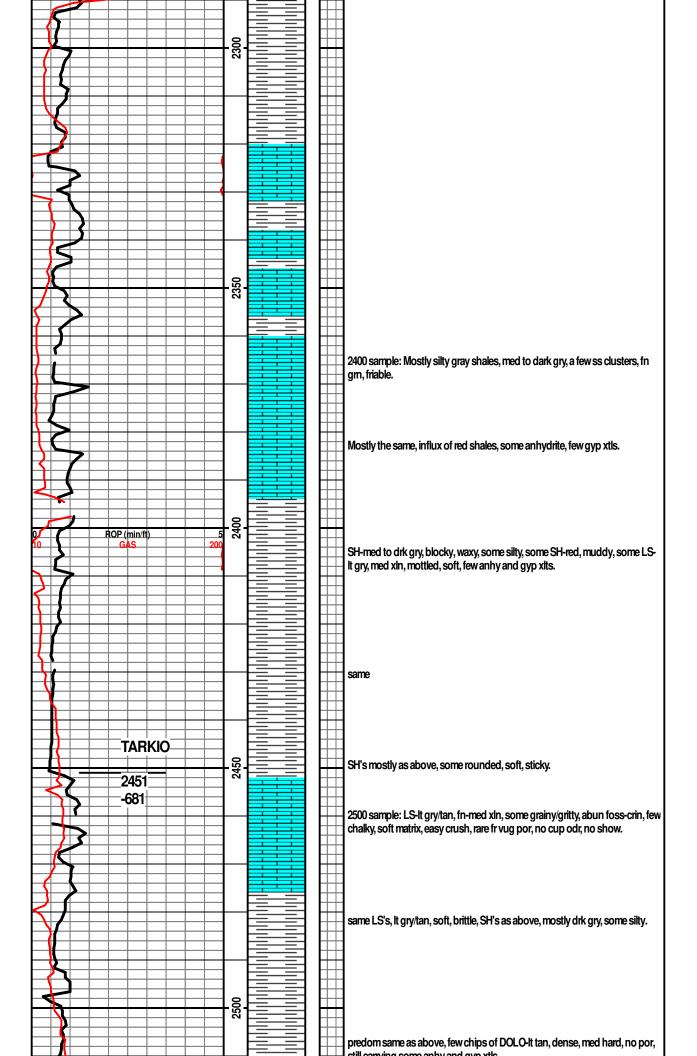


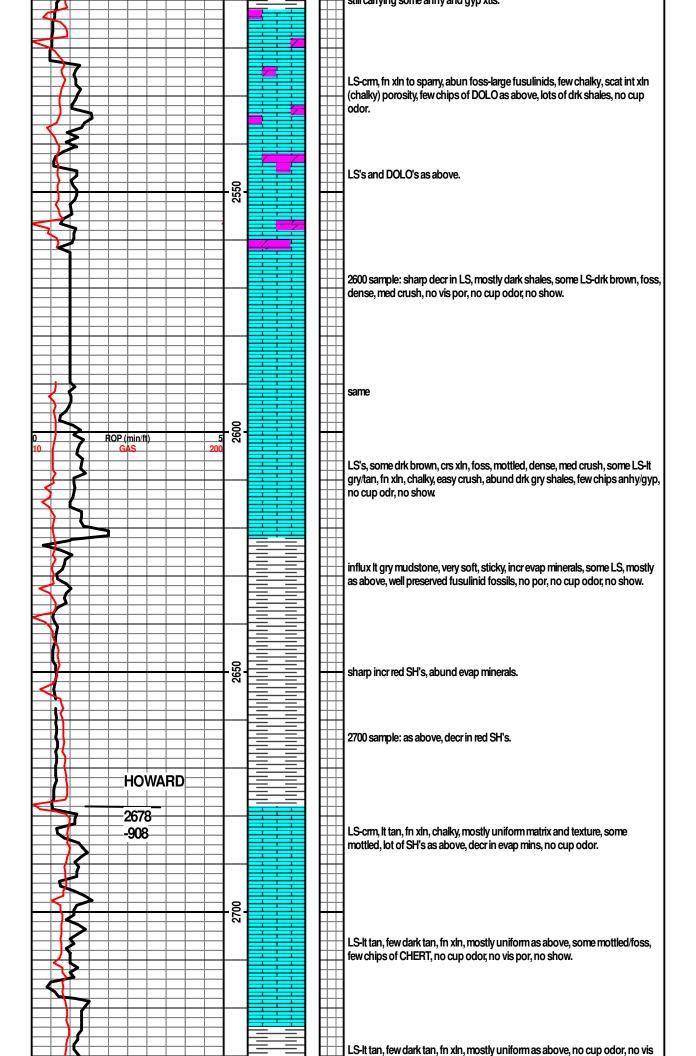
## FORMATION TOPS

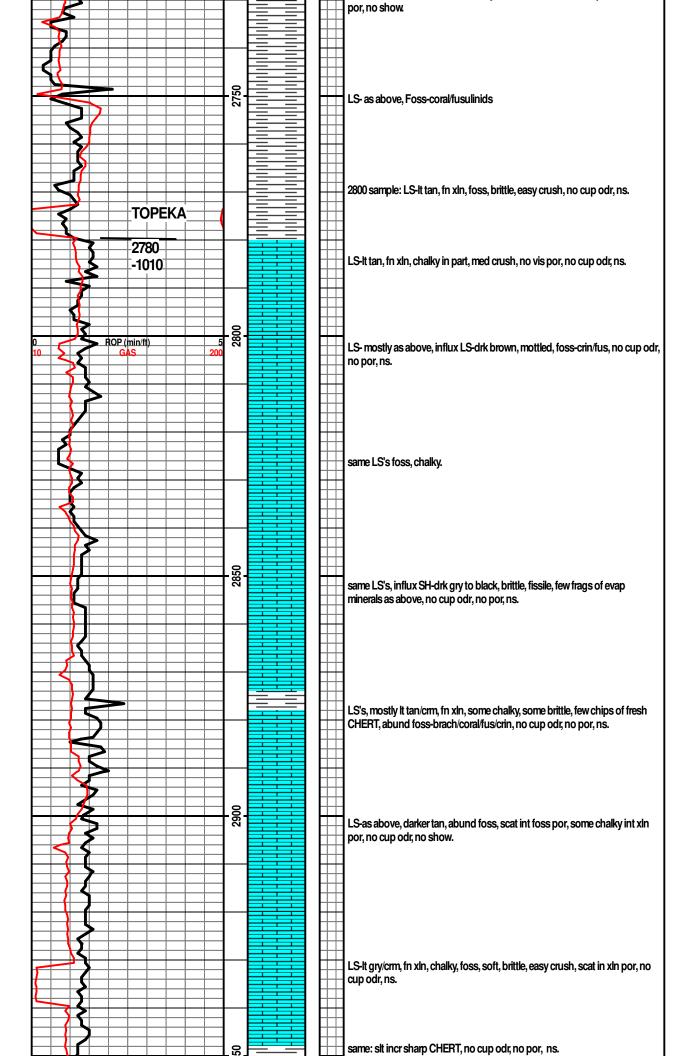
FORMATION	LOG T Depth	•••
B/Stone Corral	443'	+1327
Tarkio	2445'	-675
Howard	2670'	-900
Topeka	2774'	-1004
Heebner Shale	3068'	-1298
Lansing	3254'	-1484
Stark Shale	3476'	-1706
Hushpuckney Shale	3506'	-1736
BKC	3534'	-1764
Kinderhook SH	3626'	-1856
Viola	3700'	-1930
Simpson	3820'	-2050
RTD	3860'	-2090
LTD	3856'	-2086

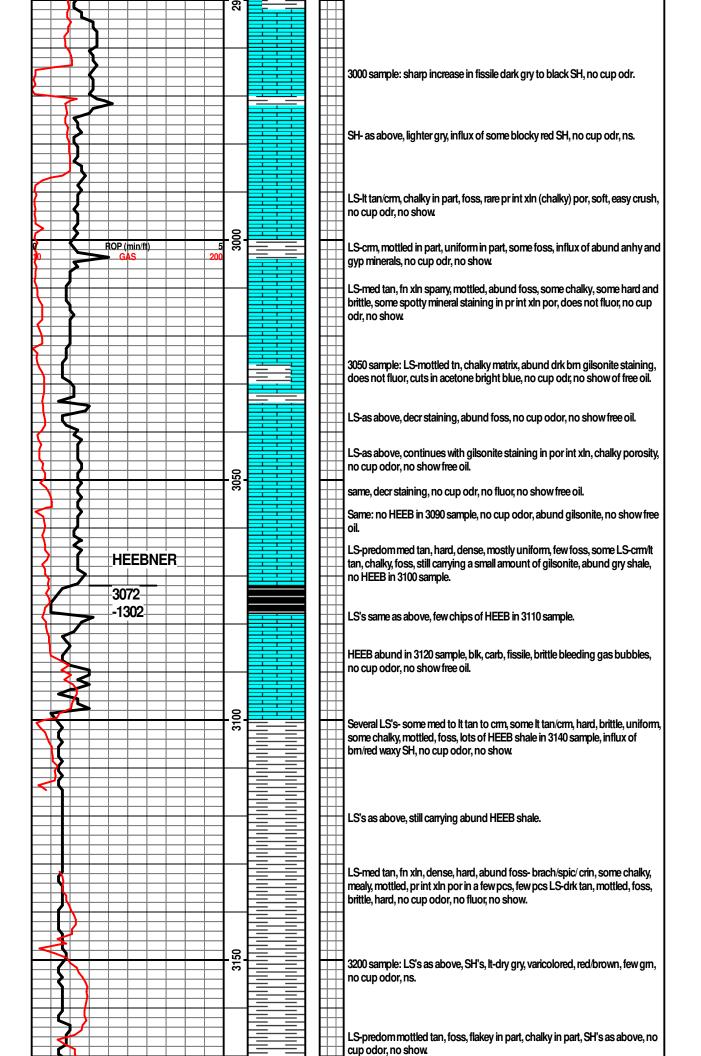


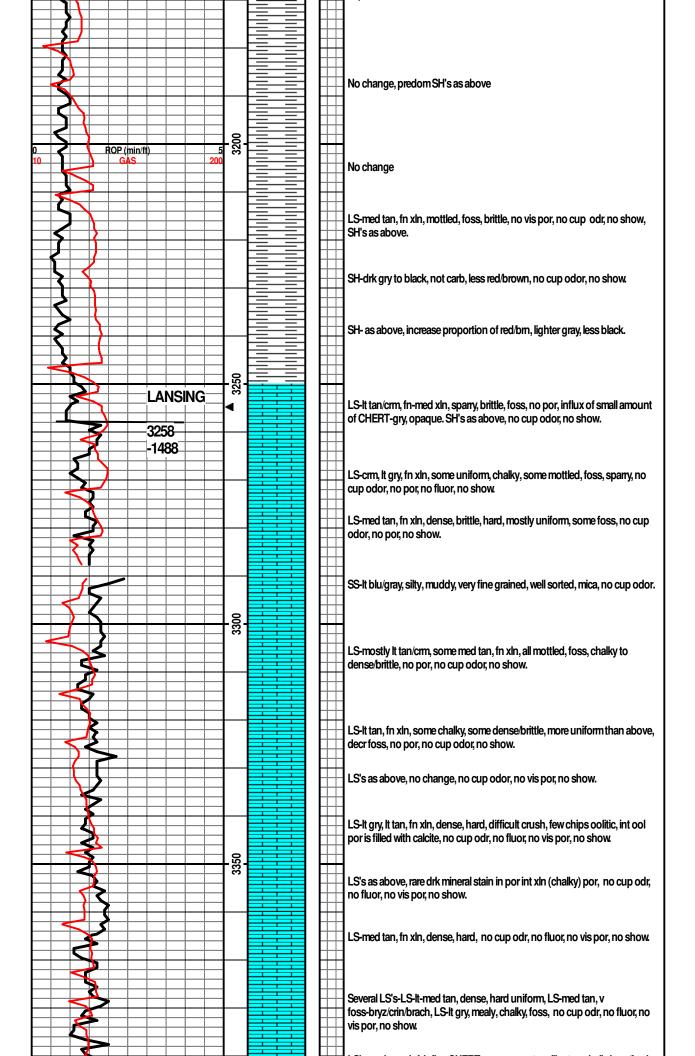
	Curve Track 1 ROP (min/ft) GAS	MD	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
0 10	ROP (min/ft) 5 GAS 200	21				Base Stone Corral = 442, datum 1327	
	5					Chase Group = 1501, datum 269	
						9/15/2018, MIRT 9/16/2018, Drilled out, at 11am, 168'	
						9/17/2018, Drilling at 1598'	
						9/18/2018, Drilling at 2715' 9/19/2018, Drilling at 3485' 9/20/2018, DST #1 at 3780'	
						9/21/2018, Logging at 3860' 9/22/2018, Running 5 1/2'' casing	
E							
		2150					
E							
0	ROP (min/ft) 5 GAS 200	2200					
E	5						
		2250					
F	$\mathbf{z}$						
F							

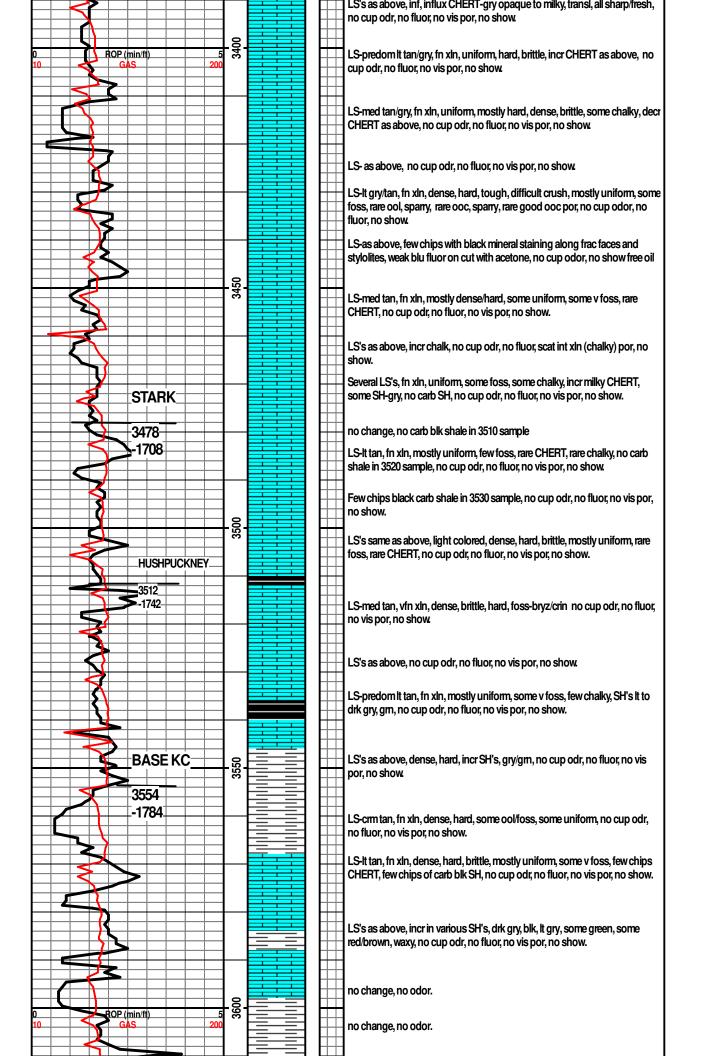


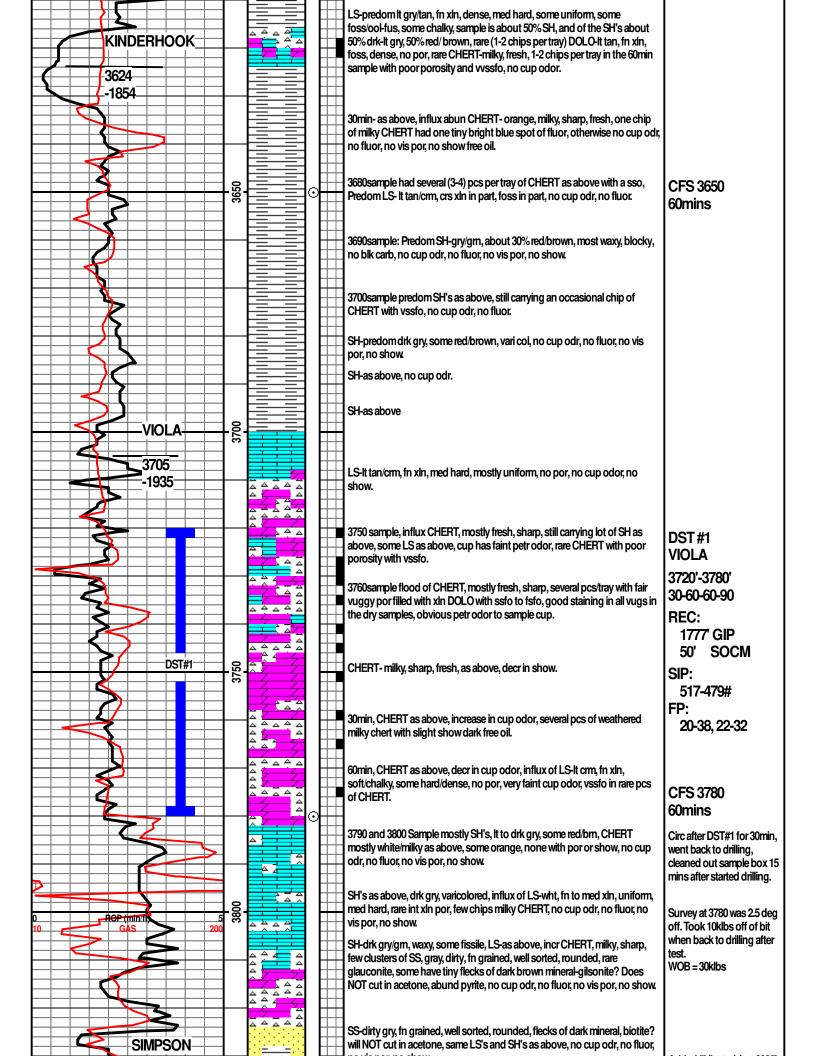












	No Vis por, no Show 3850 sample: 90% drk SH's, decr SS clusters, decrease LS's, no cup odr, no fluor, no vis por, no show. Stop Sample 3860 same, decr in SS. 30 min: same 60min: same, incr in SS-dirty gry as above.	Added 5klbs to bit at 3835 WOB 35klbs	
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