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API #15-1

# Petroleum Geologist

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY	Murfin Drilling Co., Inc.			ELEVATIONS
LEASE	Schmidt-Vap "A" #2-26			KB 2947'
FIELD	Wildcat			DF
LOCATION	330' FNL & 330' FWL			GL 2942'
SEC	26	TWSP	4S	RGE 31W
COUNTY	Rawlins			Measurements Are All From Kelly Bushing
CONTRACTOR	Murfin Drilling #24			
SPUD	10/13/17	COMP	10/21/17	
RTD	4564'	LTD	4560'	
MUD UP	3412'	TYPE MUD	Chemical	
SAMPLES SAVED FROM	3660'	TO	RTD	
DRILLING TIME KEPT FROM	3660'	TO	RTD	
SAMPLES EXAMINED FROM	3660'	TO	RTD	
GEOLOGICAL SUPERVISION FROM	3360'			
REFERENCE WELL	Schmidt-Vap "A" #1-26			
Formation	Sample Tops	E-log Tops	Struct Pos.	
Anhydrite	2705 (+242)	2703 (+244)	-4	
Base Anhydrite	2740 (+207)	2736 (+211)	-4	
Topeka	3772 (-825)	3767 (-820)	-3	
Heebner	3936 (-989)	3931 (-984)	-3	
Lansing	3982 (-1035)	3980 (-1033)	-3	
Stark	4159 (-1212)	4149 (-1202)	-4	
Mound City	4205 (-1258)	4196 (-1249)	-3	
Ft Scott	4311 (-1364)	4307 (-1360)	-7	
Mississippi	4524 (-1577)	4512 (-1566)	-3	

REMARKS Despite poor shows of oil in multiple potential pay zones and negative DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well and to possibly utilize injection purposes.

Respectfully Submitted,

API #15-153-21203

Saman Sharifaie  
Petroleum Geologist

\*Tops have been adjusted to electric logs

**Curve Track 1**  
ROP (Min/Ft)

**Geological Descriptions**

**Curve Track 1**  
ROP (Min/Ft)  
Gamma (API)  
Caliper (inches)

**Geological Descriptions**

**DAILY PENETRATION @ 7:00 AM**

- 10/13/17 - Spudded at 2:45 PM
- 10/14/17 - WOC at 260'
- 10/15/17 - Drilling at 2550'
- 10/16/17 - Drilling at 3670'
- 10/17/17 - Testing at 3930'
- 10/18/17 - Testing at 4014'
- 10/19/17 - Drilling at 4110'
- 10/20/17 - Drilling at 4285'
- 10/21/17 - Logging at 4564'

Pipe Strap @ 3599': 0.53 Short to Deviation Survey: 1/2°

Conn

Sh., lt gry/bm/dk omg, slty IP, pred gmy to mdy  
Ls., cm/lit gry/varic, fn xln, foss IP, pr intpart por, pt dns to chky, shly, n/s

Conn

3700

Sh., gry/lt gn/omg, slyt/calc IP, fri to brit

Ls., cm/lt gry/bm, fn xln, foss IP, Tr printpart & intgran por, pt dns to sub-chky, sbang, n/s

Sh., dk omg, mdy to gmy

Ls., cm/lt gry/purp, fn-med xln, pr intxln por, n/s

Sh., dk omg/bm, slyt IP, pred gmy to mdy

to

Sh., omg, slty      Topeka 3767 (-820)

Ls., crm/tan, mott IP, fn xln, foss/Oolc IP, pr vis por, sli dolc IP, dns to chky, sbang, shly, n/s

Facies	Depth (mbsl)	Thickness (approx.)
Sh., bm/dk omg, sl	-100 to -80	Thick, solid red
Sh., lt qn/argy, silty/c	-80 to -60	Thin, dotted orange
Sh., lt qn/argy, silty/c	-60 to -40	Thin, solid red
Sh., lt qn/argy, silty/c	-40 to -20	Thin, solid red
Sh., lt qn/argy, silty/c	-20 to 0	Thin, solid red
Sh., lt qn/argy, silty/c	0 to 20	Thin, solid red
Sh., lt qn/argy, silty/c	20 to 40	Thin, solid red
Sh., lt qn/argy, silty/c	40 to 60	Thin, solid red
Sh., lt qn/argy, silty/c	60 to 80	Thin, solid red
Sh., lt qn/argy, silty/c	80 to 100	Thin, solid red

