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Saman Sharifaie

Petroleum Geologist

API #15-153-21001

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY Murfin Drilling Co., Inc.
LEASE Most #1-23
FIELD Wildcat

LOCATION 900' FNL & 1000' FWL
SEC 23 TWSP 4S RGE 31W

COUNTY Rawlins STATE Kansas
CONTRACTOR Murfin Drilling #2

SPUD 04/02/14 COMP 04/09/14
RTD 4530' LTD 4530'

MUD UP 3408' TYPE MUD Chemical
SAMPLES SAVED FROM 3630' TO RTD

DRILLING TIME KEPT FROM 3630' TO RTD
SAMPLES EXAMINED FROM 3630' TO RTD

GEOLOGICAL SUPERVISION FROM 3320'
REFERENCE WELL Holle Trust #1-22

ELEVATIONS
KB 2879'
DF

GL 2868'
Measurements Are All
From Kelly Bushing

CASING
CONDUCTOR
SURFACE 8-5/8" at 225'
PRODUCTION N/A

ELECTRICAL
SURVEYS
CND; DLL; MEL; Sonic
Pioneer Wireline

Formation	Sample Tops	E-log Tops	Struct Pos.
Anhydrite	2636 (+243)	2638 (+241)	+7
Base Anhydrite	2672 (+207)	2772 (+207)	+6
Topeka	3718 (-839)	3712 (-833)	+4
Heebner	3878 (-999)	3877 (-998)	+3
Lansing	3926 (-1047)	3925 (-1046)	+4
Stark	4090 (-1211)	4091 (-1212)	+5
Pawnee	4250 (-1371)	4256 (-1377)	-1
Cherokee	4338 (-1459)	4341 (-1462)	-1
Mississippian	4458 (-1579)	4477 (-1598)	-18

REMARKS Due to poor shows of oil in all potential pay zones and negative DST results, it is recommended and agreed upon by all parties that this well be plugged and abandoned.

Respectfully Submitted,

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*Tops have been adjusted to electric logs

The figure consists of two geological logs side-by-side. The left log is a standard columnar log showing formations, sample tops, and engineering data (ROP, Gamma, Caliper) against depth. The right log is a detailed description of the formations, daily penetration, and completion information.

Geological Descriptions:

- Curve Track 1:** ROP (Min/Ft)
- Geological Descriptions:**
 - Anhydrite 2638 (+241)
 - Base 2772 (+207)
- Curve Track 1:** ROP (Min/Ft), Gamma (API), Caliper (inches)
- Geological Descriptions:**
 - DAILY PENETRATION @ 7:00 AM
 - 04/02/14 - Spudded at 3:00 PM
 - 04/03/14 - Drilling at 420'
 - 04/04/14 - Drilling at 2839'
 - 04/05/14 - Drilling at 3823'
 - 04/06/14 - Testing at 3956'
 - 04/07/14 - Testing at 4090'
 - 04/08/14 - Drilling at 4270'
 - 04/09/14 - Logging at 4530'

Deviation Survey @ 3628': 3/4°

LS., crm/fn gry/purp, fn-med xln, foss IP, Tr pr inxln por, dns,
rr fri pcs, chky IP, glauc, n/s

Sh., rd;brn/gn, gmy, rndd

LS., crm, fn xln, foss IP, Tr micr Oolc por, pt dns, dolc IP, chky,
Tr pyr, n/s

Conn

3700

1

885)
olc IP, calc,

Conn
3800
Ls., crm, sing, vf-
sub-chky, n/s

