

Saman Sharifaie

Petroleum Geologist

GEOLOGISTS REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Murfin Drilling Co., Inc.**
LEASE: **Murfin #3-5**

FIELD: **Wildcat**
LOCATION: **330' FSL & 475' FWL**
SEC: **35** TWP: **10S** RGE: **24W**

COUNTRY: **Greenham** STATE: **Kansas**
CONTRACTOR: **Murfin Drilling #8**
SPUD: **09/16/19** COMP: **09/25/19**

RTD: **4000'** LTD: **4000'**
WUD UP: **3340'** TYPE WUD: **Chemical**

SAMPLES KEPT FROM: **3340'** TO RTD
DRILLING TIME KEPT FROM: **3340'** TO RTD
SAMPLES EXAMINED FROM: **3340'** TO **3350'**

CONDUCTOR: **8-5/8" at 260'**
SURFACE: **5-1/2" at 4000'**
CASING: **ELECTRICAL**
SURVEYS: **ELECTRICAL**

GEOLOGICAL SUPERVISION FROM: **3040'**
CND: **DIL. MEL. Some**
REFERENCE WELL: **MDCI - Ceycer #4-35**
Pioneer Hydraulic

Formation	Sample Tops	E-log Tops	Struct
Amblydrite	1969 (-387)	1970 (-386)	+2
Base Amblydrite	2015 (-341)	2015 (-341)	-1
Topeka	3445 (-1089)	3446 (-1090)	-1
Lcd Completion	3570 (-1214)	3571 (-1215)	-4
Oreoid	3614 (-1288)	3615 (-1289)	-4
Heobner	3667 (-1310)	3667 (-1311)	-4
Toronto	3687 (-1331)	3689 (-1333)	-5
Lansing	3704 (-1348)	3705 (-1349)	-5
Stark	3894 (-1538)	3896 (-1540)	-5

REMARKS: Due to fair shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,
API #15-065-24172
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*Tops have been adjusted to electric logs

