API #15-153-21049

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GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR	Morgan Oil & Gas, LLC
LEASE	McGinness Unit Tr 2-32-19 Mc
LOCATION	SE - SW - NW - NW
	1320' FNL & 1000' FWL
	Sec. 32 - T 19 S - R 19 W
	Ness County, Kansas
GROUND ELEV.	KB: 2247'
ELEVATIONS	DF: 2245'
	GL: 2237'
SPUD	09/26/14 - 08:00 PM
RTD	4700'
LTD	4700'
DRILLING CONTR.	Murfin Drilling Co. Inc. Rig 15
MUD CO.	CHEMTEX - TYPE MUD
MUD AT - TD	Chris Kennedy - Dodge City
DRILLING TIME KEPT FROM	3370' - TO - RTD
SAMPLES SAVED FROM	3370' - TO - RTD
GEOLOGICAL SUPERVISION FROM	3370' - TO - RTD
ELECTRICAL SURVEYS	Trilobite Testing - Dual Induction
	Superior Well Services - Compensated Neutron Density
CASING RECORD	Surface: 8 5/8" - 23# - New - 350' - Cmt'd w/ 225 sks
	Production: 5 1/2" - 15.5# - New - 4700' - Cmt'd w/ 175 sks
DRILL STEM TESTS	None
CORES	None
DEVIATIONS	1/4 - 350'
	1 - 4700'
DAILY DRILLING RATE	5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 - 59 - 60 - 61 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 69 - 70 - 71 - 72 - 73 - 74 - 75 - 76 - 77 - 78 - 79 - 80 - 81 - 82 - 83 - 84 - 85 - 86 - 87 - 88 - 89 - 90 - 91 - 92 - 93 - 94 - 95 - 96 - 97 - 98 - 99 - 100 - 101 - 102 - 103 - 104 - 105 - 106 - 107 - 108 - 109 - 110 - 111 - 112 - 113 - 114 - 115 - 116 - 117 - 118 - 119 - 120

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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*Trips have been adjusted to electric logs.

Curve Track 1
IDF (Bit/ft)
Gamma (API)
Caliper (Inches)

Curve Track 2
IDF (Bit/ft)
Gamma (API)
Caliper (Inches)

Depth | Formation | Geological Descriptions | Engineering Data

Anhydrite 3134 (+111)

Base 3170 (-75)

DAILY PENETRATION
@ 7:00 AM
09/29/14 - Scheduled at 6:00 PM
09/30/14 - Drilling @ 2087'
10/01/14 - Drilling @ 2580'
10/01/14 - Drilling @ 3530'
10/02/14 - Drilling @ 4000'
10/03/14 - Drilling @ 4500'
10/04/14 - Drilling @ 4660'
10/05/14 - Drilling @ 4610'

Morgan Mud @ 3507'
Wt: 9.1
Vis: 57
Wl: 9.6
Chl: 800
LCM: 1DB

Per Rice @ 3507: 2.77' Bed to Bed
Medium Survey ?

Ness 3634 (-379)

Morgan Mud @ 3869'
Wt: 9.1
Vis: 57
Wl: 9.2
Chl: 800
LCM: 1DB

Fowler 3738 (-483)

Stalnaker 3840 (-585)

Toronto 3956 (-714)

LeCompton 4030 (-775)

Lansing 4110 (-851)

DST #1
4.00 A.M.
2197-4200'

30-60-60-60
IF: BOB in 7 mins
FF: BOB in 10 mins
FO: 0.00 in 15 mins
FC: 0.00 in 15 mins
Rec: 120' MW (30%M, 10%W)
IHP: 1040 IFP: 42-42 FFP: 42-42 FHP: 1040
ISIP: 1147 FSIP: 1147

DST #2
4.00 A.M.
4200-4700'

30-60-30-60
IF: Weak
FF: No blow
Rec: 5' M (100%M)

IFP: 21 - 21
FFP: 21 - 21
IHP: 2095
FHP: 2095
ISIP: 1147
FSIP: 1147

Morgan Mud @ 4337'
Wt: 9.2
Vis: 57
Wl: 9.6
Chl: 800
LCM: 1DB

Medium Survey @ 4200 ?

Kansas City 4400 (-1153)

Stark 4581 (-1348)

BKC 4662 (-1429)

Marmaton 4680 (-1233)

Morgan Mud @ 4500'
Wt: 9.1
Vis: 57
Wl: 9.2
Chl: 800
LCM: 1DB

Pawnee 4766 (-1521)

Fort Scott 4835 (-1590)

Cherokee 4847 (-1602)

Mississippian 4844 (-1599)

Morgan Mud @ 4660'
Wt: 9.2
Vis: 58
Wl: 9.6
Chl: 800
LCM: 1DB

Medium Survey @ 4660 ?

RTD 4700 (-1700)

Medium Survey @ 4660 ?

Geological Descriptions | Engineering Data

Gamma (API) | Caliper (Inches) | Depth | Formation

Curve Track 1 | Curve Track 2

Geological Descriptions | Engineering Data