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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY American Warrior Inc.
 LEASE White 7-8
 FIELD Stoltenberg
 LOCATION NE. 7NW-5E. 1NW (1425' FNL 1800' EWL)
 SEC 8 TWPSP 16S RGE 10W
 COUNTY Ellsworth STATE Kansas
 CONTRACTOR Duke Drilling Co (rig #8)
 SPUD 6/17/24 COMP 6/24/2014
 RTD 3446 LTD 3449
 MUD UP 2500 f TYPE MUD Chemical displaced
 SAMPLES SAVED FROM 2700
 DRILLING TIME KEPT FROM 2700
 SAMPLES EXAMINED FROM 2800
 GEOLOGICAL SUPERVISION FROM 2900
 GEOLOGIST ON WELL Jim Musgrove

FORMATION TOPS	LOG	SAMPLES
<u>anhydrite</u>	<u>688</u>	<u>+985</u>
<u>base anhydrite</u>	<u>705</u>	<u>+968</u>
<u>Hebner</u>	<u>2896</u>	<u>-1023</u>
<u>Toronto</u>	<u>2916</u>	<u>-1043</u>
<u>Douglas</u>	<u>2926</u>	<u>-1053</u>
<u>Brown lime</u>	<u>2998</u>	<u>-1125</u>
<u>unsing</u>	<u>3013</u>	<u>-1140</u>
<u>Base Kansas City</u>	<u>3308</u>	<u>-1435</u>
<u>Arbuckle</u>	<u>3328</u>	<u>-1455</u>
<u>RTD</u>	<u>3446</u>	<u>-1578</u>
<u>LTD</u>	<u>3449</u>	<u>-1578</u>

ELEVATIONS

KB 1873

DF _____

GL 1865

Measurements Are All From -KB,

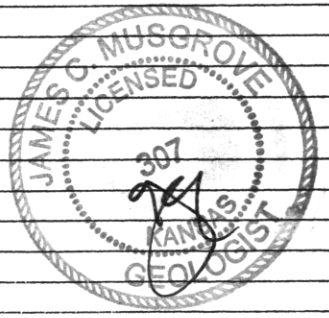
CASING 363
 SURFACE 878116
 PRODUCTION 5/2116.3445
 ELECTRICAL SURVEYS
Pioneer
 Dual induction, Dual Compensated
 Porosity & micro



REMARKS

5 1/2' production casing was set & cemented in the white 7-8.

Respectfully submitted,
James C. Musgrove
Petroleum Geologist



LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool. Lime
- Chert
- Dolomite

DRILLING TIME

5051

2077 907

2997(-1124)

Leaning
3012(-1129)

LS, brown/gry, slightly
dry (dsc)
gry/gryish green silty sh
LS, wh/crm, ool, sub oom,
chuky, scatt o; fr. blk/gry
stn, nsgo, no odor

LS, wh/gry, ool, oom, good
oom (barren)

LS, crm/gry, oom, chuky
fr. brown stn, nsgo,
no odor
+ wh, ool, Δ

LS, wh/gry, ool/foss,
chuky, scatt o, n/s

?

LS, crm/wh-gry, oom, fr. oom o
fr. pool gry/brown stn, nsgo
no odor.

aa.

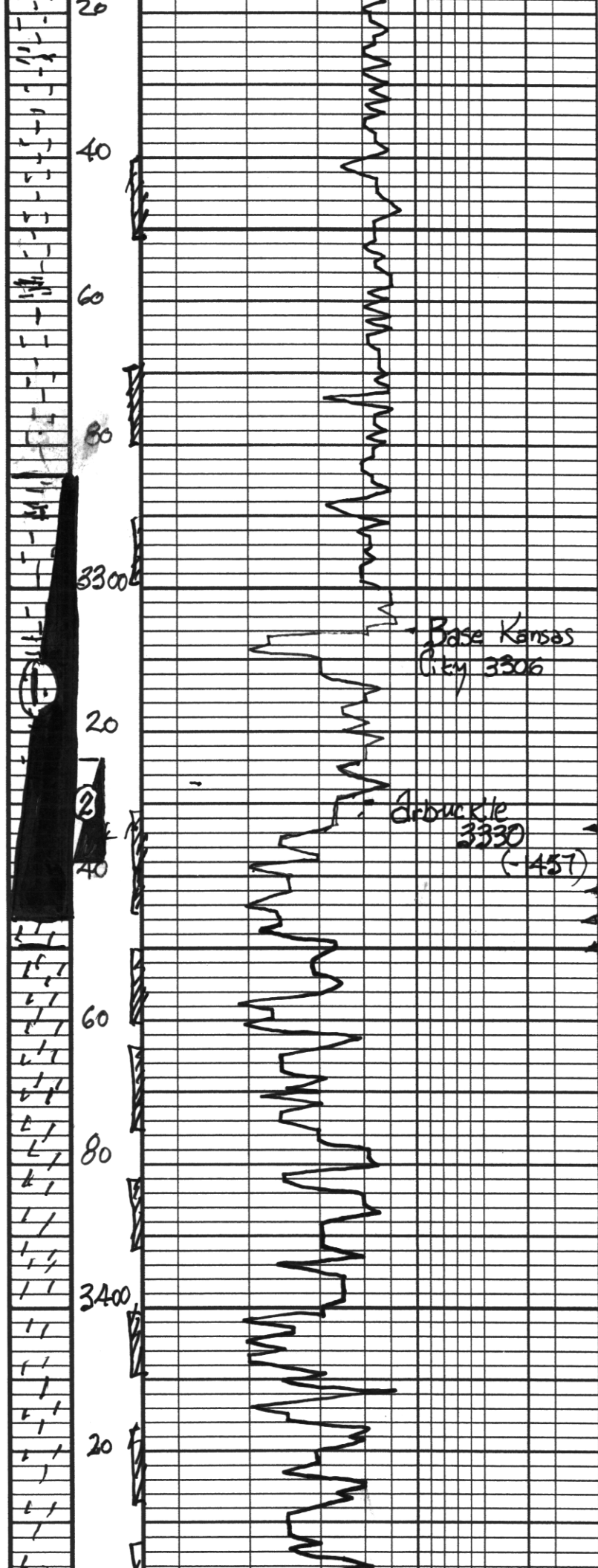
???

blk calc st

LS, tan, brown,
slightly dry (dsc)

LS, wh/gry, ool, chuky
few ??? stn, nsgo
no odor

LS, wh/crm, oom, fr. oom o
n/s



blk. carb sh	
ls tan. gm, few foss cherty sil	
} ?	
aa + wh/gm/amber Δ	
} 2	
ls, wh/crm, frt, few foss, cherty sil	
- blk sh	
ls wh/gm; cherty - dense	
gm/pr/ blk sh	
} 2	
ls, gm/tan, Δy (dsc)	Drill stem test #1 3284-3346 30-30-30-30 Blow; Strmg (COBB 30 Secs)
} 2	
dd; wh/crm, (xL) few succ. slightly Δy; brown stn, sfo, ft. odor (30' at 10')	2nd opening; Strmg (COBB 2 mins)
dd; crm, wh, medly sst brown stn, sfo, odor (good)	Rec; 5' clean oil 340' slightly oil cut mud (5% oil) 95% mud
dd; wh/crm, med/coarse xt; good IX-L; brown stn/sst sfo, good odor	1575' muddy water pressures; Isip 832 ps fsip 847
} 2	
aa; sst/ to good IX-L/yaggy; brown golden brown silty stn, fr. sil, ft. odor	Isip 338-767 fsip 781-835 HSH 1629-1594 ps
} 1	
dd; ady (few silty) blk/gm (stn) nsfo, sst odor	DS#2 3324-3338 (straddle test) 30-30-30-30 Blow; Strmg (COB 1 mins)
} 2	
dd; crm/wh (xL) few med xt fr IX-L v n/s wh A	2nd

40



RTD 3346

32

and opening string
(Bob 3 mins)

Recovery; 20' clean oil

465' oil & Gas cut
muddy water

(10% gas; 15% mud;
25% oil; 50% water)

945' muddy water
scum of oil

pressures; ISIP 851 psi
SSIP 850
IFP 54
SFP -426
HSH 432-634

1675
- 1620 psi