THE ANALYSTS

Schlumberger

PHYSICAL FORMATION LOG

LAFAYETTE — NEW ORLEANS — HOUSTON

COMPANY Shell Western E. & P., Inc.

WELL Nueces Mineral Company # 1 Sidetrack

AREA Piedra Creek

COUNTY La Salle STATE Texas

SUPERVISOR Johnny McNair UNIT OLU-D-017 JOB # 40-39739

STARTED LOGGING AT 9158 (Sidetrack) FEET CEASED LOGGING AT 10,000 FEET 3/1/85

MUD TYPES Lignosulfonate TO 10,000 FT.; TO FT.

HOLE SIZE	CASING RECORD
6 3/4" TO 10,000	10 3/4" TO 1550
TO	7 5/8" TO 8700
TO	TO
TO	TO

"The Analysts, Inc., does not warrant the accuracy or correctness of any interpretation, recommendation or measurement contained herein. The interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule."

ABBREVIATIONS
LAT - LOGGED AFTER TRIP
LAST - LOGGED AFTER SHORT TRIP
NR - NO RETURNS
NB - NEW BIT
NDB - NEW DIAMOND BIT
E.LOG - ELECTRIC LOG
CO - CIRCULATE OUT
CIRC - CONDITION HOLE

LITHOLOGY: SAND, LIME, SHALE, LIGNITE, SALT

DRILLING FLUID ANALYSIS
PERCENT GAS BY VOLUME
BUTANES % PER DIV.
PROPANE % PER DIV.
ETHANE % PER DIV.
METHANE % PER DIV.
TRIP GAS Above Background
CONN GAS Above Background

SHOW VALUES
5 - PROB NON PROD.
10 - POSS PROD.
15 - PROB PROD.

☒ MIN/FT. ☐ FT/HR

PERCENT IN SAMPLES — LITHOLOGY — DEPTH — OIL / GAS / GOV

SH DEN ... FL TEMP .....

0.3 0.6 1.2 2.4 4.8 — .30 .60 1.2 2.4 4.8

UNITS 80 160 320 640

MUD DATA — FORMATION DESCRIPTION

Note ROP Shale Change From original well log

Flowline temp° 110° 120° 130°

Shale dens g/cc 2.14 2.15 2.16

Total Gas (Units)
100 Units = 1% C_1 in air

Commenced rotary drilling on sidetrack @ 9158

RHB RR # 10 Christ. PDC
WOB 15K
RPM 125
PP 3200

9100

9200 10 1/4° S11°W TVD 9189

9300 10 1/4° S11°W TVD 9282

9400 9 1/2° S15°W TVD 9405

9500

9600 9 1/2° S15°W TVD 9594

9700

9800

9900

10000

MW 13.0
SH dk gry-brn
med gry-brn
med gry dk gry
mod hd hd
blky med calc
occ slty tr
SD tr sltst

SG 1100 SH dk gry dk gry-brn hd blky occ slty calc

MW 13.2

SG 9880

SH dk gry dk gry-brn hd blky occ flk occ slty v calc

SD tn wh clr vfgr sbang cons occ arg

15 See Show Report #1ST

SH med gry-brn mod hd blky slty sdy

SD tn clr vfgr sbang cons

SG

5700

SH med gry-brn mod hd blky splty v calc sdy slty glauc

SD wh tn clr vfgr fgr sbang sbrndd cons foss glauc

NB #13 Core Bit 12/27/85
Coring Av. ROP 13.3
12/28/85
Coring Av. ROP 13.3
3/1/85

NB #14RDT
WOB 20-25K
RPM 150
PP 3300

Form 04 U.S. Scale