



CORE LABORATORIES, INC.

COMPANY AMALGAMATED PETROLEUM NO LIABILITY
WELL LAKE NASH NO. 1
FIELD WILDCAT
COUNTY LAKE NASH STATION STATE NORTHERN TERRITORY
LOCATION LAT 20° 54' 18" S. ELEVATION UNDETERMINED
LONG 137° 53' 20" E.

DEPTH LOGGED FROM 870 TO 1315 FT.
DATE LOGGED 17-12-62 8:00 PM TO 27-12-62 5:00 PM
CREW CHIEF HOOPES FILE NO. FT-PD-1-3
DRG. FLUID FRESH WATER GEL SURFACE TO 1315 FT.

PR63/018B LEGEND

RB = RETURN BIT
NB = NEW BIT
NCB = NEW CORE BIT
CO = CIRCULATED OUT
DST = DRILL STEM TEST
LAT = LOGGED AFTER TRIP
TG = TRIP GAS
NR = NO RETURNS
DS = DIRECTIONAL SURVEY
DC = DEPTH CORRECTION
DEPTHS CORRESPOND TO DRILL PIPE MEASUREMENTS
MEASURED FROM KELLY BUSHING (KB).

RESISTIVITY, OHM-METERS
Rm = MUD
Rmc = MUD CAKE
Rmf = MUD FILTRATE
MUD DATA
CK = CAKE THICKNESS 32nds
V = VISCOSITY API SECONDS
F = FILTRATE API CC'S
W = WEIGHT
S = SALINITY, ppm Cl

LITHOLOGY
SAND, SALT, COAL, QUARTZITE, CONG., CLAY, DOLOMITE, ANHYDRITE OR GYPSUM, SHALE, CHERT, LIMESTONE, CHALK, SILTSTONE

DRILLING RATE
MIN/FT
FT/HR

DRILLING ACTIVITY

LITHOLOGY

DEPTH

HYDROCARBON ANALYSIS

Table with columns for DRILLING MUD and DRILL CUTTINGS, showing gas analysis (Methane, Ethane, Propane, Butane, Pentane, Hexane) and Total Gas & Methane percentages.

REMARKS
FORMATION DESCRIPTION, MUD DATA, DRILL STEM TESTS, etc.

VERTICAL SCALE: 2" = 100'

NOTE: DRILLING RATE NOT RECORDED BEFORE LOGGING UNIT ARRIVED 870'

NOTE: GAS NOT RECORDED BEFORE LOGGING UNIT ARRIVED 870'

INDICATES OIL
INDICATES ASPHALT

SECTION TO 870' DESCRIBED FROM UNLAGGED DITCH SAMPLES ALL SAMPLES AFTER 870' LAGGED
10-60: WEATHERED DOLOMITE; WHITE AND YELLOW MOTTLED, SOFT W/ YELLOW AND WHITE RESIDUAL CLAY AND WHITE TO LIGHT YELLOW CHERT
60-200: DOLOMITE; WHITE TO LIGHT YELLOW TO LIGHT BROWN, FINE TO MEDIUM CRYSTALLINE, SLIGHTLY ARGILLACEOUS IN PART W/ GEODE-LIKE VUGS & SCATTERED VUGULAR POROSITY
200-300: DOLOMITE; WHITE TO LIGHT GRAY, FINE TO MEDIUM CRYSTALLINE WITH POSSIBLE INTERCRYSTALLINE POROSITY, SCATTERED VUGULAR POROSITY,

298-308: CORE #1 RECOVERED 10'
300-388: DOLOMITE; WHITE TO TAN TO LIGHT GRAY, FINE TO COARSE CRYSTALLINE, W/ MINOR DARK GRAY SHALY MATERIAL, LOCALLY CALCAREOUS, TR DOLOMITIC OOLITE

586-96: CORE #2 RECOVERED 10'
586-700: LIMESTONE; LIGHT GRAY TO DARK GRAY TO BROWN TO WHITE, FINELY CRYSTALLINE, ARGILLACEOUS IN PART W/ BLACK HARD ARGILLACEOUS MATERIAL

700-790: LIMESTONE; MOSTLY DARK GRAY TO DARK BROWN, FINE CRYSTALLINE W/ SOME WHITE TO LIGHT GRAY TO LIGHT YELLOW, FINE TO MEDIUM CRYSTALLINE LIMESTONE, ARGILLACEOUS IN PART
801-12: CORE #3 RECOVERED 11'

790-870: DOLOMITE; FINE TO MEDIUM CRYSTALLINE, LIGHT TO MEDIUM GRAY W/ TRACES OF GLAUCONITE, VUGULAR POROSITY
MUCH BLACK, NON-FLUORESCENT ASPHALT WHICH GIVES BRIGHT

YELLOW CUT IN CCL4 PRESENT AT 790' WITH TRACES CONTINUING TO 910'
870-950: DOLOMITE; WHITE TO LIGHT GRAY TO LIGHT YELLOW, MEDIUM CRYSTALLINE WITH VUGGY POROSITY. TRACE LIGHT BROWN AND YELLOW, FINE CRYSTALLINE LIMESTONE

+CEMENTED LOST CIRCULATION AT 997' & 1030'
1012-27: CORE #4 15' RECOVERED
BIT 10 HTC W7R 8 1/2"
950-90: DOLOMITE; MEDIUM CRYSTALLINE; LIGHT GRAY TO LIGHT TAN W/ VUGULAR POROSITY LOCALLY AND TRACE SAND
990-1093: QUARTZITE; PINK TO REDDISH GRAY IN DEPTH, HARD MEDIUM TO COARSE GRAINED, TRACE MARCASITE, WHITE KAOLIN-LIKE MATERIAL IN INTERSTICES
BIT 11 HTC W7R 8 1/2"
BIT 12 HTC W7R 8 1/2"
BIT 13 HTC R-1 8 1/2"
1093-1159: DOLOMITE; ASPHER 950-90 WITH ASPHALT PRESENT THROUGHOUT & LOSS OF MUD, CALCAREOUS WBLEX - GUARD AND GAMMA-NEUTRON LOGS 1159-1315: SANDSTONE; RED TO REDDISH GRAY TO GRAY, IRON OXIDE CEMENTED, MEDIUM GRAINED, FIRM TO HARD MEDIUM SORTED WITH TRACE CLEAR TO LIGHT RED QUARTZITE. SOME KAOLIN-LIKE MATERIAL IN INTERSTICES
TOTAL DEPTH 1315'

CORE # 1

CORE # 2

CORE # 3

CORE # 4

KB

GL

CO

RB 9

CO

NCB

CO

NB10

CO

RB10

CO

NE11

LAT

NE12

CO

NE13

CO

E-LO

RB13

CO

TD

EQUIPMENT ARRIVED ON LOCATION AND NORMAL LOGGING PROCEDURES COMMENCED

Vertical scale markings: 1 FOOT = 40 FEET, 1 FOOT = 40 FEET, 1 FOOT = 40 FEET