M-d

ARKLA EXPLORATION COMPANY NMA CORTEZ 5
SE/NE Sec 12-T14N-R23E, Navajo Co 9-4

County NAVAJO CO.

Area

Lease No.

Well Name ARKLA EXPLORATION COMPANY NMA CORTEZ #5

Location SE NE Sec 12 Twp 14N Range 23E Footage 2277 FNL 529 FEL

Elev 5521 Gr ~~[illegible]~~ 5528 KB Spud Date Completed Abandon 1/65 Total Depth 1350

from Arkla records + gnc: 5521.38 GL and 5528 KB

Contractor

Drilled by Rotary
Cable Tool

Casing Size	Depth	Cement

Production Horizon

Initial Production

REMARKS

Elec Logs GRN

Applic. to Plug Plugging Record Completion Report

Sample Log
Sample Descript.
Sample Set
Core Analysis
DSTs

Water well accepted by

Bond Co. & No.

Bond Am't $ Cancelled Date Organization Report

Filing Receipt Dated Well Book Plat Book

API No. 02-017-00254 Loc. Plat Dedication

Permit Number NONE Date Issued

#9-4

LITHOLOGIC DESCRIPTION

DO NOT REMOVE FROM FILE

WELL NAME: ARKLA EXPLORATION COMPANY #5 NMA CORE TEST.

LOCATION: SEC 12-14N-23E

ELEVATION:

00-15'	SURFACE SAND PETRIFIED WOOD.
15-30'	AA, AA, VERY LARGE GRAIN SD PETRIFIED WOOD.
30-40'	SURFACE SAND PETRIFIED WOOD, TRC GRN SHALE.
40-50'	AA, DECREASING, SH, INCREASE.
50-60'	SH RED SOFT.
60-70'	AA, AA, AA, PIECES GREEN SHALE.
70-75'	SAME AS ABOVE, PCS LARGE GRAIN SD. 63.30'-10¾".
CIRC. 75-76'	AA, 70% CONG SD 30%. SET @ 73.30 w/40 SK.
15 MIN. 76-80'	SH RED GREEN PCS. SD.
80-90'	CONG SHALE, MICACEOUS, PYRITIC.
90-00'	AA, 90%, SD LRG GRN & CHERT COLORED 10%.
100-10'	SH RD GREEN 30% AA, AA, 70%.
10-20'	SH, MAROON, RED, 100% PCS CONG SH TRC GRN SLTY SD.
20-30'	CONG 100%, COLORED CH & SHALE LARGE GRAIN SD.
30-40'	CREAM, LT GRY SLT ST 100%.
40-50'	SH RED GREEN VERIGATED 100%.
50-60'	SH RED SLTY, 100% PCS GREEN SH & SD.
60-70'	SAME.
70-80'	SH RED & GREEN SLTY, BEC. CONG.
80-90'	SD GRN M C GRAIN GLAU CONG 50% SH RED CONG 50%.
90-00'	CONG SD GREEN BROWN PYRITIC DARK MINERAL FLECKS MICA GLAU PCS GRN SHALE.
200-10'	SAME W/COLORED CH 50% SLT ST RED 50%. SLT INC M GRN SH.
10-20'	SH SLTY, RED & GREEN (PRED GREEN) 60% CONG SD BRN 40%.
20-30'	SD GREEN CONG, INTSTL CLAY 50% SH RED GRN BEC CONG.
30-40'	AA, AA, 90% SH 10% AS ABOVE.
40-50'	SD BRN YELLOW CONG 90% SH VERIGATED 10%, PCS CH.

~~14~~ 9-4

50-60'	SLT ST REDDY MICA FLECKS 80% SD FG GREEN SLTY ALSO GRY SLTST. TRC WH SD W/BLK FLECKS.
60-70'	SH RED GREEN 30% CONG SD 70%.
70-80'	AA 10% AA, REDDISH BRN YELLOW W/BLK FLECKS TRC GREEN CLY ST.
80-90'	SH SLTY RED 60% AA, 40%.
90-00'	SAME 40% CONG SD RED 60%.
300-10'	SD RED CONG LARGE MICA INCL, TRC PURP, GREEN SHALE.
10-15'	AA, ORG WH LARGE GRAIN.
15-20'	AA WH LARGE GRAIN CLEAN SUB RD INT STL CLY BLK MINERAL FLKS. TRC ANHY SH RED 40%.
20-25'	SLT ST RED SANDY 90% SD GRN VTG SLT 10% TRC GRY LM.
25-30'	SD RED, SLTY.
30-35'	AA, TRC ANHY.
35-40'	SD GRN, FN GRN GREEN, SD& SH AS ABOVE.
40-45'	SH SLTY RED.
CIRC 10 MIN	SH RED.
45-50'	AA.
CIRC 10 MIN	AA.
50-55'	AA.
55-60'	SH & SH, SH RED.
60-65'	SH SLTY RED CONG IN PT. CONG SAND.
65-70'	CONG SD & SH RED & GREEN POSS ANHY MUD BALLING UP.
70-75'	SD RED FN GRN SILTY PCS CONG SAND AA, AA.
CIRC 10 MIN	PCS SD WH INTSTL CLY PCS LMY. DOLO.
75-80'	SAME
80-85'	SD DARK RED ORG F GRN SLTY.
85-90'	SAME
90-95'	DOLO BUFF VT XYLN SLTY 40% SAND AS ABOVE 60% TRC WH SD.
95-00'	SAME W/DOL GRY GRN GRY DNSE SLTY MICA, PYRITIC 80% ORG & RED SD AS ABOVE 20% ANHY.
400-05'	SAME SEVERAL PCS WH SD POSS CoCo.
05-10'	POOR SAMPLE (LOST CIRC @06) PCS COCONINO SD? GRY WH SOFT.

10-15'	SD WH MED GRN WELL SORTED, CLEAR, WH PK PYRITIC, SUB RD.
CIRC 10 MIN	SAME
15-20'	SD AS ABOVE LIGHT INT STL CLAY.
CIRC 10 MIN	SAME 10% GYP SOFT WHITE.
20-25'	SAME
CIRC 10 MIN	AA.
25-30'	SAME.
CIRC 10 MIN	AA.
30-35'	SAME.
CIRC 10 MIN	AA.
35-40'	SAME.
40-50'	SD GRY WH SILICEOUS SUB RD RD. MED COARSE GRAIN.
50-60'	AA.
60-70'	SD WH BLU GRY MED GRN FRIABLE INTSTL CLY.
70-80'	AA.
80-90'	SD. SAME BEC MORE COARSE XYLN.
90-00'	SAND SAME BEC UNCONSOLIDATED.
500-10'	SAME VERY CLEAR PYRITIC IN PART.
10-20'	AA, INCREASE IN PYRITE GYPSI.
20-30'	SAME BEC MORE CONSOLIDATED SHY IN PT.
30-40'	SAND AS ABOVE BLU GRY PYRITIC.
40-50'	SAME.
50-60'	AA, BEC GYP.
60-70'	SAND SAME, UNCONSOLIDATED.
70-80'	AA, PYRITIC.
80-90'	SAND SAME CONSOLIDATED.
90-00'	AA.
600-10'	SD GYP PYRITIC CONSOLIDATED.
10-20'	AA.
20-30'	AA, FREE PYRITE.

30-40'	AA, BEC V COURSE GRAIN INSTLL CLAY.
40-50'	SAME.
50-60'	SD AS ABOVE UNCONSOLIDATED.
60-70'	AA, BEC CONSOLIDATED SLIGHT PINKISH CAST.
70-80'	AA, LESS CONSOLIDATED PYRITIC.
80-90'	AA.
90-00'	SAND, CONSOLIDATED, PINKISH PYRITIC GYP.
700-10'	SD, WHIT, COARSE GRAIN CLEAR TRIABLE WELL CONSOL SUB ROUND, 90% ANHY 10%.
10-20'	SAME BEC MOR SILICEOUS.
20-30'	SD AS ABOVE UN CONSOLIDATED 90% (SHALE RED GRN 5%) ANHY 5%.
30-40'	AA, BEC MORE CONSOLIDATED ORG IN COLOR 90%, SH AS ABOVE 10%.
40-50'	SAME 80% SH SAME (ALSO GRY 20%).
50-60'	SD WH RED, 10% SHY SLTY SANDY RED 80%.
60-70'	SD, RED 50% SLTST RED SDY 50%.
70-80'	SD WH WELL CONSOL SILICEOUS 50% SLTST SDY RED 50%.
80-90'	SD, ORG WH.
90-00'	SD ORG WH MED COARSE GRAIN SUB RD LOOSELY CONSOLIDATED.
800-10'	SD RED COARSE GRAIN SUB ROUND, ROUND WELL CONSOLIDATED 90% PCS GREENISH WH SD SHY SH BLUE GRY RED 10%.
10-20'	AA, SILTY, WELL CEMENTED POORLY SORTED FN COARSE GRAIN.
20-30'	SD ORG WH UNCONSOLIDATED TRC GYP.
30-40'	AA, HIGHLY UNCONSOLIDATED AA.
40-50'	SAME BEC MORE GYPY. TRC BLU GRY SH.
50-60'	SD WH DNSE DOLO F M GRN 40% SLTST RED SDY RED 50%.
60-65'	AA, 20% AA, & SH 80%.
65-70'	SLT ST GRY DOLO 30% AA, AA, 70% ANHY TRC.
70-75'	DOLO LT GRY V DENSE CALCITIC HARD 40% AA, AA, 60% (MUD STARTING TO CLOBBER).
75-80'	AA, 30% SD RED SLTY 70% PCS COLORED SHALE.
80-85'	SD AS ABOVE 5% SOFT WH ANHY.
85-90'	SAND AS ABOVE 20% SPURRY GYP.

90-95'	INCREASE IN WH SOFT GYP & ANHY MUD CLOBBERING UP.
CIRC 15 MIN	SAME INC IN ANHY.
95-00'	SH ST RED GREEN 90% GYP 10%.
900-05'	SAME.
05-10'	SLT ST 100% RED TRC GYP.
10-15'	ANHY WHITE 80%, SLT ST RED 20%.
15-20'	AA, 90% AA, GREEN 10%.
20-25'	AA, 40% SLTST RED 60% TRACE GREEN SLT ST.
25-30'	AA, 40% AA, AA, 60%.
30-35'	SLT ST RED SOFT 100% TRC ANHY.
35-40'	SHALE & SLT ST RED 100% TRC ANHY.
40-45'	AA, AA, (10% GREEN) AA, AA, AA.
CIRC 15 MIN	SHALE & SLTST RED 90% ANHY 10%.

CORE #1
945-997 RECOVERED 52

945-48½ 3½' SOFT RED SH; 48½-50 ANHY W/SH INCLU; 50-52 RED SH; 52-56 GRY DENSE DOLO W/STR OF RED SH @ 55 & STR OF RED DOLO @ 56. 56-57½ RED CLAY; 57½-59 GRY ANHY W/SH STRS; 59-61 RED SH W/MICA FLCKS; 61-68 DENSE GRY ANHY; 68-70½ SOFT RED CLAY; 70½-86 DENSE GRY ANHY; 86-89 80% ANHY, 20% SH; 89-93 RED CLY ST W/GYP & ANHY INCLU; 93-94½ BANDED GRY ANHY; 94½-95 50%-50% BANDED ANHY & SH; 95-96 RED & GRN CLY ST; 96-97 SAME.

CORE #2
997-1049 RECOVERED 52

997-98½ CLYST RED GREEN SOFT; 98½-101½ ANHY GRY DNSE; 14½-16 CLY STONE RED; 16-17 AA GREEN; 17-18½ PINK XLYN ANHY; 18½-20 CLYST, RED; 20-21 PINK SALT; 21-24 SH 90%, SALT 10%; 24-25 AA, 30% AA 70%; 25-29 AA, 10% AA, 90%; 29-30 SH RED W/GRN FLECKS & SALT INCLU; 30-32 SH 50%, SALT 50%; 32-34 AA, 20% AA, 80%; 34-44½ PINK SALT W/SCAT ANHY IN FRAC TURES; 44½-49 SH 10% SALT 90%.

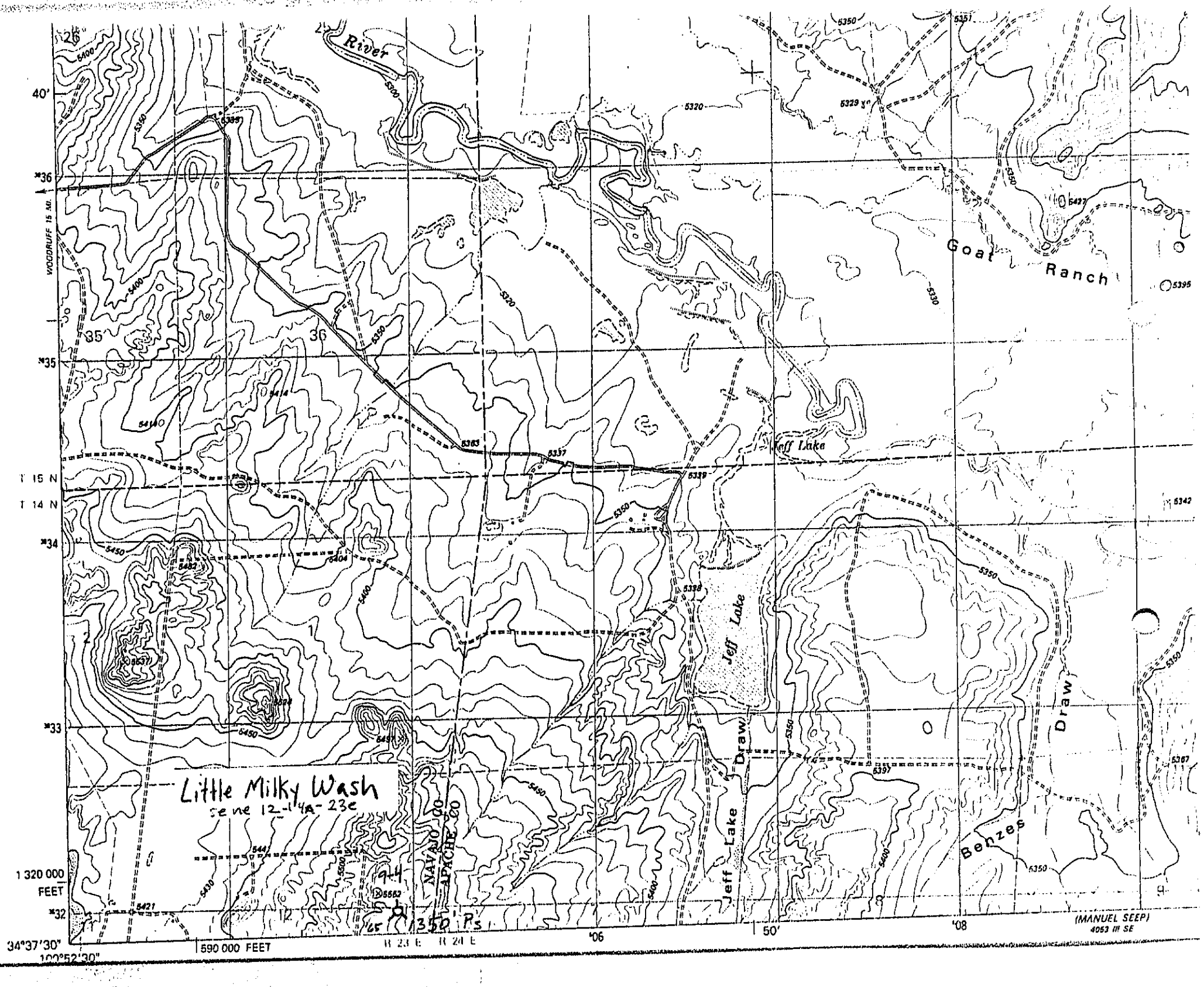
CORE #3
1049-1101 RECOVERED 52

1049-50 SALT WH 80% REDDISH BRN SH IMPURITIES 20%; 50-54 SALT PK 100% FRAC FILLED W/ANHY; 54-57 SLAT 30% SH REDDISH BRN 70% CORE VERY CRUMBLY; 57-61 AA, 10% AA 90%; 61-63 AA 70% AA 30%; 63-79 PINK SALT 100% W/ANHY INCLU FROM 72-79; 79-80 SALT 50% SH 50% W/ANHY BAND IN 80'; 80-82 RED SH & GRN SH W/SALT INCLU; 82-83 SALT 10% SH 90%; 83-89 AA 90% AA, 10%; 89-99 PINK SALT 100%; 99-1100 PINK SALT W/10% ANHY; 1100-1101 SALT 10% RED & GRN SH 90% W/ANHY INCLU.

CORE #4
1101-1153 RECOVERED 52

1101-02 SH REDDISH BRN CLYEY 80% SOET 20%; 02-14 PINK SALT W/SCAT THIN ANHY BANDS; 14-15½ ANHY W/SALT INCLU; 15½-16 SALT 20% SH 80%; 16-22 AA 90% SH 10%; 22-28 PINK SALT W/SCAT THIN ANHY BANDS; 28-29 SALT 90% SH 10%; 29-33 REDDISH PINK SALT 100%; 33-34 SALT 50% ANHY 50%; 34-36 SALT 100% (PINK); 36-42 SALT 40% SH 60%; 42-44½ AA 20% AA 80%; 44½-49 AA 80% AA 20%; 49-52 AA 50% RED & GRN SH 50%; 52-53 AA, AA, RED SH 100%;

1153-60'	SALT CLEAR CLOUDY 80% SH 20%.
60-70'	AA, 70% AA, 30%.
70-80'	AA, 80% AA, 20%.
80-90'	AA, 80% AA, 20%.
90-00'	AA, 80% AA, 20%.
1200-10'	SALT 90% WHITE, SLTST REDDISH BRN 10%.
10-20'	AA, 10% ANHY WH, 90%.
20-30'	SALT 10% ANHY 40%, SLT ST, 50% (RED & GRN).
30-40'	AA, 100% CLEAR WHITE.
40-50'	SALT SAME CLEAR 80% SH RED W/SALT INCL 20%.
50-60'	AA, 80% W/ANHY INCL SH 20%.
60-70'	AA, 80% ANHY 20%.
70-80'	SALT PK ORG, 30% SLTST RED GREEN 70%.
80-90'	100% SALT.
90-00'	SALT 70% SH REDDISH BRN 30%.
1300-10'	ANHY GRY 90% SLT 10%.
10-20'	DOLO BRN DNSE V F XYLN SILTY BLK SHALE LAMINATIONS 90% SLTST GRN 10%.
20-30'	SLT ST GREEN SDY, 90% SALT 10% TRC ANHY.
30-40'	SALT 100%.
40-50'	AA, 10% SH 80% ANHY 10%.
CIR 15 MIN	SALT 90%, SH 10%.


River
Goat Ranch
Jeff Lake
Jeff Lake
Jeff Lake Draw
Benzes Draw
Little Milky Wash
sene 12-14A-23e
9-4
NAVAJO CO
APACHE CO
VOODRUFF 15 MI.
T 15 N
T 14 N
R 23 E
R 24 E
590 000 FEET
1 320 000 FEET
34°37'30"
109°52'30"
(MANUEL SEEP)
4053 III SE

9-4

Chapman, Inc.

FORMATION ANALYSIS

DAILY LOG

COMPANY ARKANSAS LOUISIANA GAS CO. 8
WELL NMA CORE TEST NO. 5
SEC. 12 T. 14N R. 23 E
COUNTY APACHE STATE ARIZONA
SUPERVISOR W. D. ROBERTSON
UNIT 7 DATE 1-16-65

ABBREVIATIONS

LAT - Logged after trip
CO - Circulated Out
NR - No Returns
NB - New Bit
NCB - New Core Bit
UCB - Used Core Bit
DST - Drill Stem Test

LITHOLOG

Sand
Lime
Shale
Anhydrite
Siltstone
Salt
Dolomite

MUD GAS ANALYSIS
Per Cent Gas By Mud Volume

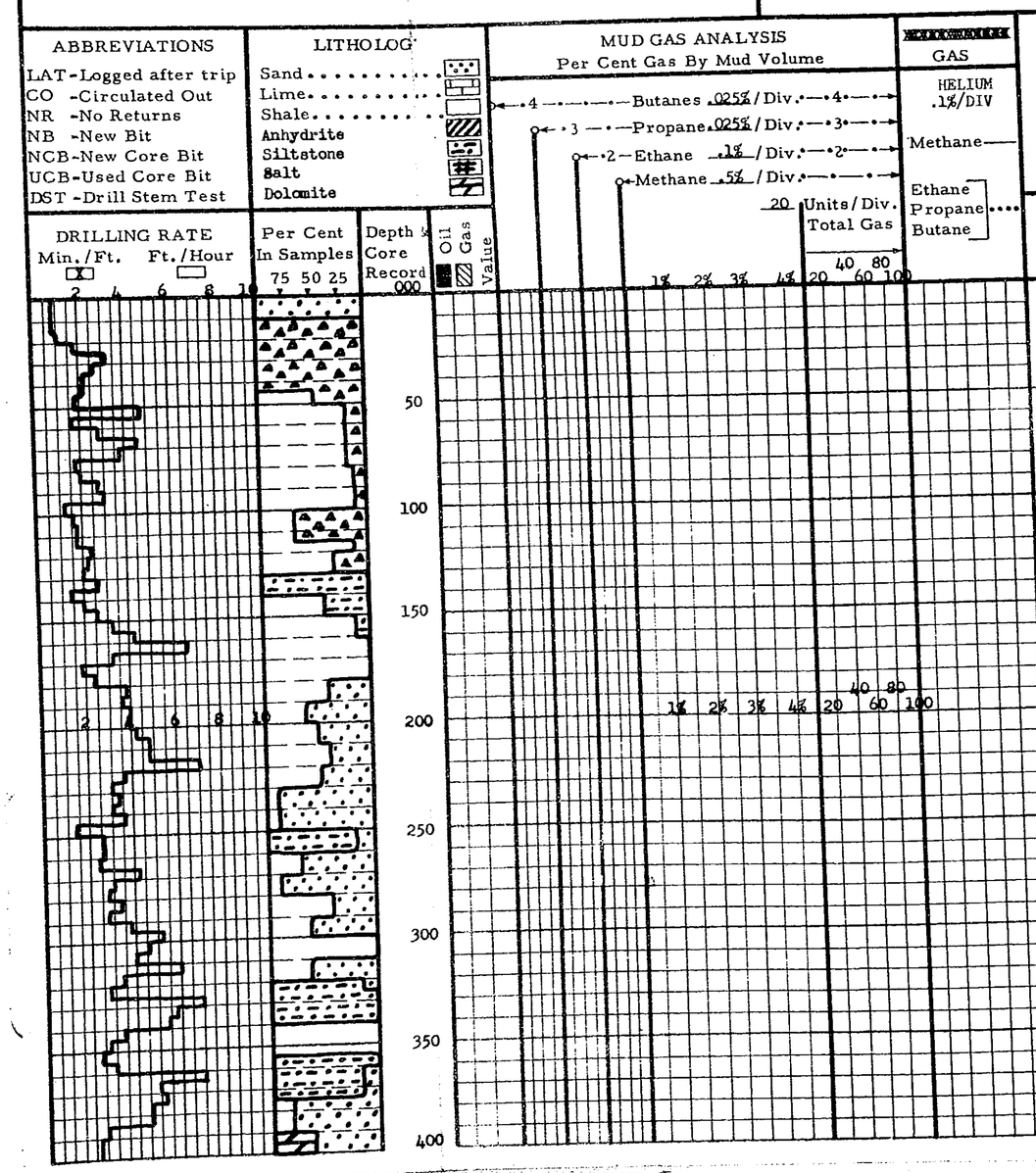
4 — Butanes .025% / Div.
3 — Propane .025% / Div.
2 — Ethane .1% / Div.
Methane .5% / Div.
20 Units / Div. Total Gas

GAS

HELIUM .1%/DIV
Methane
Ethane
Propane
Butane

SHOW VALUE

2 - Very Poor
5 - Poor
10 - Fair
15 - Good
20 - Very Good



REMARKS

SURFACE SAND
UNCONSOL SD, GRAV, & BROKEN PETRIFIED WOOD TR REB & GRY SH

BRN SLTY SH
SH & BRK PET WOOD
BRN LT GRY & GRN SH

DK BRN, LT & MD GRY SH
LT GRY SLTST

CHOC BRN SH
GRY-GRN M.G. ANG SD w/BLK MICA FLKS

BRN & RED SLTY SH
BRN CONGLOM SD
RED & GRN SLTY SH
GRN CONG SD w/INST CLAY

RED SDY SLTST
CONG SD
RED & GRN SH
REDDISH-BRN & YEL SD w/BLK MICA

RED CONG SH
WHT L.G. CLEAN SUB RND SD w/CLY & MICA
RED SDY SLTST
RED SLTY SH

RED SH
RED SLTST
RED-ORNG SLTY SD
NB#2 RERUN
SLTY GRY DOLO

COMPANY NMA CORTEZ 5
SEC. 12 T-14N-R23E, Navajo Co.

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DRILLING RATE
Min./Ft. Ft./Hour
2 4 6 8

9-4

Chapman, Inc.

FORMATION ANALYSIS

DAILY LOG

COMPANY ARKANSAS LOUISIANA GAS CO. 8
WELL NMA CORE TEST NO. 5
SEC. 12 T. 14N R. 23 E
COUNTY APACHE STATE ARIZONA
SUPERVISOR W. D. ROBERTSON
UNIT 7 DATE 1-16-65

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20 Units / Div. Total Gas

GAS

HELIUM .1%/DIV
Methane
Ethane
Propane
Butane

SHOW VALUE

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15 - Good
20 - Very Good

DRILLING RATE
Min./Ft. Ft./Hour
2 4 6 8 10

Per Cent In Samples 75 50 25

Depth Core Record 000

Oil Gas Value

1% 2% 3% 4% 20 40 60 80 100

REMARKS

SURFACE SAND
UNCONSOL SD, GRAV, & BROKEN PETRIFIED WOOD TR REB & GRY SH

BRN SLTY SH
SH & BRK PET WOOD
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REDDISH-BRN & YEL SD w/BLK MICA

RED CONG SH
WHT L.G. CLEAN SUB RND SD w/CLY & MICA
RED SDY SLTST
RED SLTY SH

RED SH
RED SLTST
RED-ORNG SLTY SD
NB#2 RERUN
SLTY GRY DOLO

50 100 150 200 250 300 350 400

Chapman, Inc.

FORMATION ANALYSIS

DAILY LOG

COMPANY ARKANSAS LOUISIANA GAS CO.
WELL NMA CORE TEST NO. 5
SEC. _____ T. _____ R. _____
COUNTY APACHE STATE ARIZONA
SUPERVISOR W. D. ROBERTSON
UNIT 7 DATE 1-19-65

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20 Units / Div. Total Gas

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HELIUM .1%/DIV
Methane
Ethane
Propane
Butane

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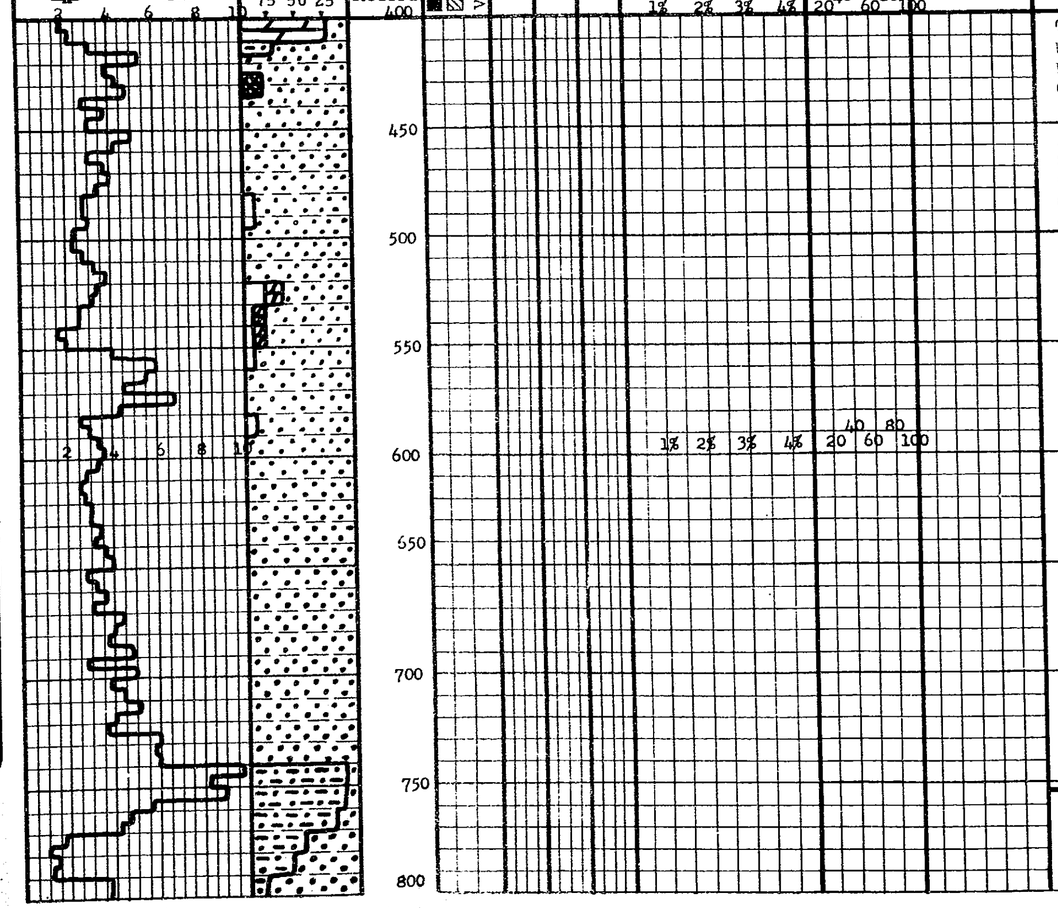
DRILLING RATE
Min./Ft. Ft./Hour
2 4 6 8 10

Per Cent In Samples
75 50 25

Depth & Core Record
Oil Gas Value

REMARKS



GRY SLTY MICA DOLO
WHT, CLEAR M.G.
WELL SORTED SD
GYP

CLEAN WHT MG WELL
SORTED SD
TR PYR TR GYP
GRY SH & RED SLTY
SH

SD-WHT CLEAN W/SOR
MG FAIR PORO
RED SLTST & WHT
DOLO

SD-FRIABLE
SD-UNCON SOLIDATED

RED SLTST SD-FRI
TO WELL CEM

SD-FRI PORO FAIR

SD-WHT CLEAN MG
W/SORTED
TRS PYR

SD-SLI GRN TINT
UNCON TO FRI

SD WHT F TO MG
CLEAN WELL SORTED
FRI TO UNCON

RED SDY SHLY SLTST

NE#3 SEC H7
RED SDY SHLY SLTST
WHT & REDDISH-BRN
SD

COMPANY
WELL
SEC. T. R.
COUNTY STATE
SUPERVISOR
UNIT DATE

ANALYSIS
Mud Volume

Div.
Div.
Div.
Div.

Units / Div.
Total Gas

CHARTINGS
GAS

Methane

Ethane
Propane
Butane

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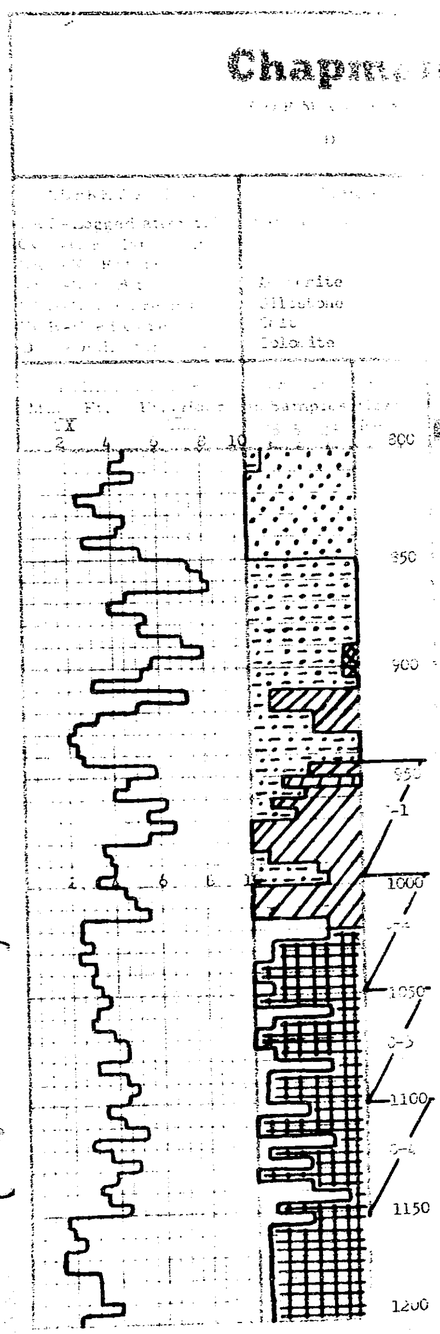
REMARKS



Chapman, Inc.

FORMATION ANALYSIS

DAILY LOG

COMPANY ARKANSAS LOUISIANA GAS CO.
WELL NMA CORE TEST NO. 5
SEC. _____ T. _____ R. _____
COUNTY Apache STATE ARIZONA
SUPERVISOR W. D. ROBERTSON
UNIT 7 DATE 1-23-65

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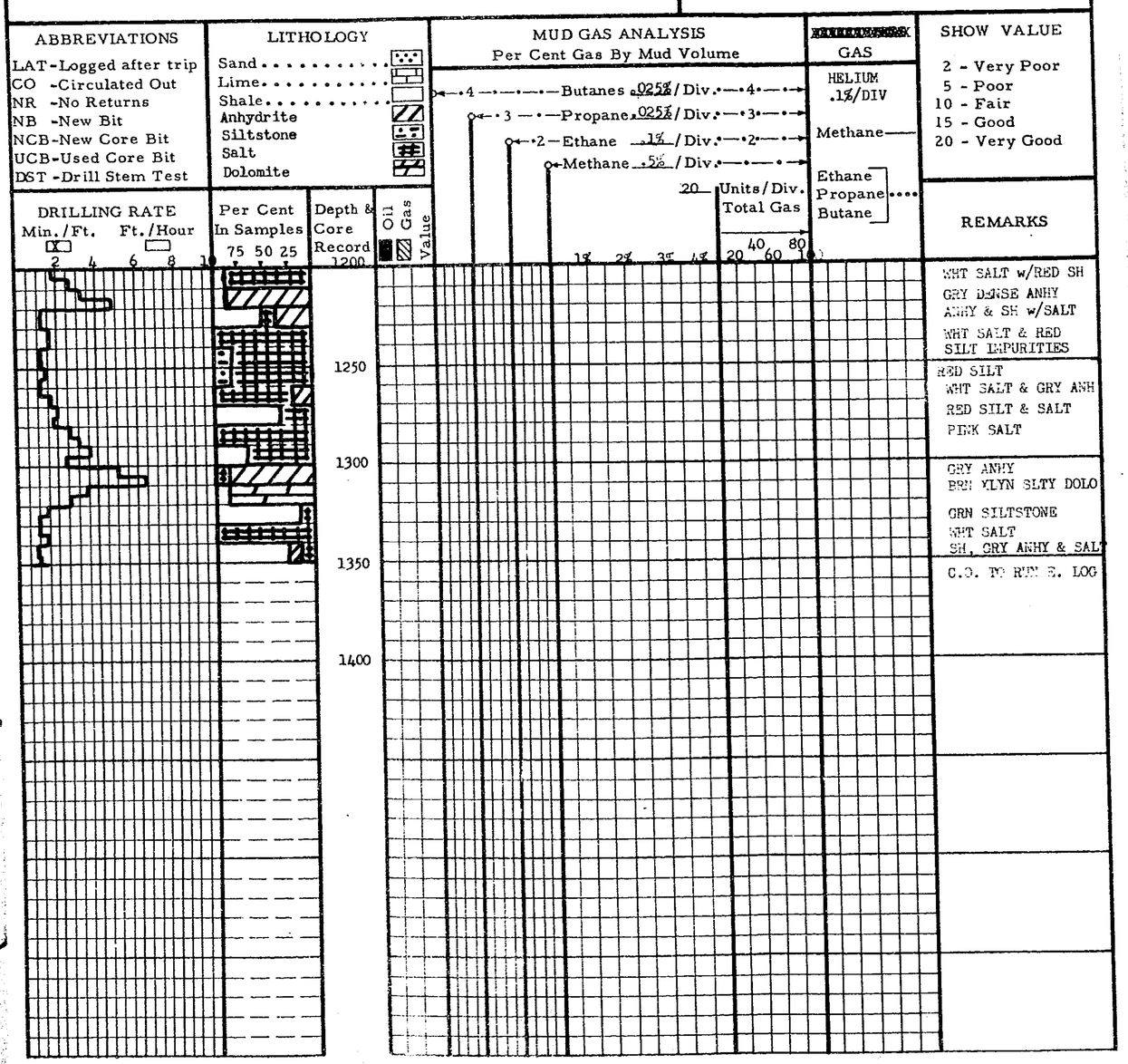

REMARKS

WHT SALT w/RED SH
GRY DENSE ANHY
ANHY & SH w/SALT
WHT SALT & RED SILT IMPURITIES
RED SILT
WHT SALT & GRY ANH
RED SILT & SALT
PINK SALT
GRY ANHY
BRN VLYN SLTY DOLO
GRN SILTSTONE
WHT SALT
SH, GRY ANHY & SALT
C.O. TO RUN E. LOG

COMPANY NMA CORTEZ 5
SE/NE Sec 17-14N-R23E, Navajo Co

Chapman, Inc.

FORMATION ANALYSIS

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WELL NMA CORE TEST NO. 5
SEC. _____ T. ____ R. _____
COUNTY Apache STATE ARIZONA
SUPERVISOR W. D. ROBERTSON
UNIT 7 DATE 1-23-65

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Ethane
Propane
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DRILLING RATE
Min./Ft. Ft./Hour
2 4 6 8 10

Per Cent In Samples 75 50 25

Depth & Core Record

Oil Gas Value

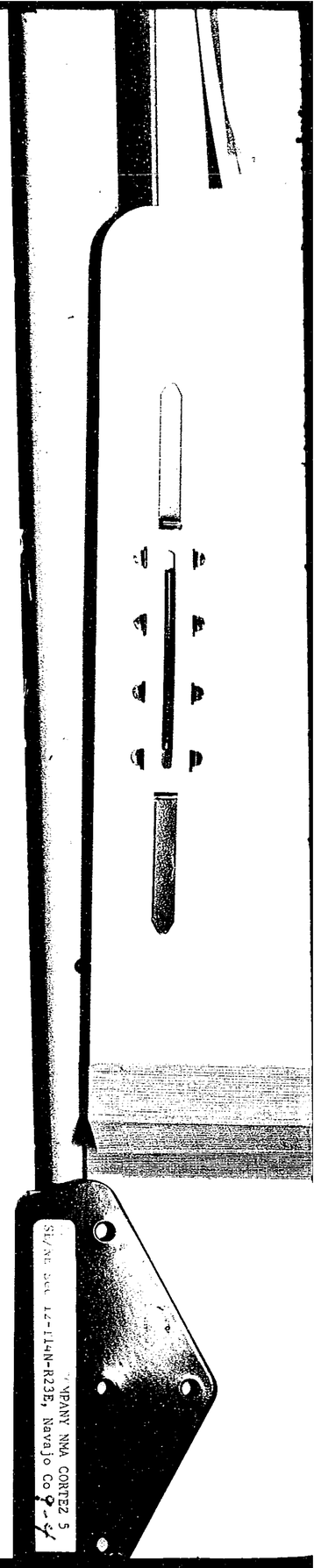
1% 2% 3% 4%
20 40 60 80 100

REMARKS

1200 WHT SALT w/RED SH
GRY DENSE ANHY
ANHY & SH w/SALT
WHT SALT & RED
SILT IMPURITIES

1250 RED SILT
WHT SALT & GRY ANH
RED SILT & SALT
PINK SALT

1300 GRY ANHY
BRN XLYN SLTY DOLO
GRN SILTSTONE
WHT SALT
SH, GRY ANHY & SALT

1350 C.O. TO RUN E. LOG

1400