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CONSERVATION DIVISION
Wichita, Kansas

MAR 7 - 2000

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20.32S-28W
SE NW

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MAR 06 2000

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GEOLOGICAL REPORT

on the

QUINQUE OPERATING COMPANY

Clawson Trust #1-20

C S/2 NW/4
Sec. 20-T32S-R28W
Meade County, Kansas

API 15119210100000

1980 FNL 1320 FWL

11/22/1999

HAWKEYE WELLSITE GEOLOGY SERVICES
P. O. Box 2179
Littleton, Colorado 80161

Telephone 303 267 0261 or 303 770 6611

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WELL SUMMARY
for

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WELL: Clawson Trust #1-20
OPERATOR: Quinque Operating Company
LOCATION: C S 1/2 NW 1/4 Section 20-T32S-R28W
Meade County, Kansas

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AREA: Hugoton Embayment, Northwest Anadarko Basin
DRILLING AND COMPLETION CONSULTANT: Roger Pearson
DRILLING CONTRACTOR: Abercrombie Drilling Co., Rig 4
PUSHER: Gary Fisher
MUD LOGGING: Gas detector leased from Holmes Gas Detector Service
GEOLOGIST: Gary C. Wilkins
COMPLETED: 11/22/1999, Prep. to run long string.
SPUDDED: 11/12/1999
REACHED TOTAL DEPTH: 0130 hrs. 11/22/1999
155.5 Rotating Hours, 35.75 ft/hr.
TOTAL DEPTH: 5620' Driller, 5626' Log.

HOLE SIZE(S) AND CASING SIZE(S):

Hole Size	Casing Size
12 1/4" to 1593'	8 5/8" @ 1589'
7 7/8" to 5620'	4 1/2" @ T.D.

DEVIATION SURVEYS:

At 511'	1/4 Deg.
At 1440'	3/4 Deg.
At 3048'	3/4 Deg.
At 4460'	1 1/4 Deg.
At 5486'	3/4 Deg.

BIT RECORD:

Bit #	Size	Company	Type	Out	In	Footage Drilled
1	12.25"	Varel	L-117	1440'	0.	1379'/16.25 hrs.
2	12.25"	Varel	L-117	1593'	1440'	153'/2.75 hrs.
3	7.875"	HTC	GT-20-C	5486'	1593'	3893'/130 hrs.
4	7.875"	HTC	GT-20-Crr	5620'	5486'	134'/6.5 hrs

DAILY DRILLING REPORT:

11/11/99 MI & RURT
11/12/99 MI & RURT, Spud
11/13/99 Drlg. @ 1428'.
11/14/99 PTD 1593'. OART WOC. Set 1580' 8 5/8" casing at 1589'.
11/15/99 Drlg. @ 2855'. DO at 0745 yesterday.
11/16/99 Drlg. @ 3625'.
11/17/99 Drlg. @ 4219'.
11/18/99 Drlg. @ 4471'. Twisted off while drilling at depth of 4202.6'. Top of fish approximately 1200' below KB.
11/19/99 Drlg. @ 4895'.

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11/20/99 Drlg. @ 5264'.
11/21/99 PTD 5486'. OART Prep to run DST #1.
11/22/99 PTD 5620'. OART POH to run open hole logs.

SAMPLES:

10' from 4100' to T.D. Sample quality generally poor, sometimes unusable. Over pumping hole.

OPEN HOLE LOGS: Schlumberger

Engineer: Steven B. Simpson
Dual Induction-Self Potential-Gamma Ray
Compensated Neutron, Compensated Density, G.R., Caliper
Microlog

DRILL STEM TESTS: Trilobite Testing Company.

DST # 1, 5415' to 5486', Morrow sand.. This test was run in order to evaluate a strong show on the gas detector while circulating a drilling break at the proper position for a Morrow sand. None of the drilled sandstone was found in the samples. Therefore, there is no description of the prospective reservoir rock. The test was open for a ten minute first flow with fair blow increasing to BOB in three minutes. Gas surfaced while bleeding off the first flow. After an initial shut in of 30 minutes the tool was opened for the second flow. GTS immediately and at the end of 60 minutes the flow was measured at a rate of 231 MCFGPD, still increasing. The final shut in period was 90 minutes. Pipe recovery was 210' SGM, 5% gas.

IHP	2678#
IFP's	48 & 77#
ISIP	1822# still building
2d FP's	61 & 76#
FSIP	1877#
FHP	2655#
Temperature	130 deg. F.

PRIMARY OBJECTIVE:

The primary objective was the Swope Zone of the Pennsylvanian-Kansas City Group. Production failed in this zone because the well ran structurally low to nearby production.

OTHER ZONES OF INTEREST:

Pennsylvanian-Morrow sand. A Morrow sand was drill stem tested for the gas flow reported above.

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STRUCTURAL COMPARISON:

Comparison of selected tops in the Quinque # 1-20 Clawson Trust to the Imperial Oil #2-19 Sanders, NE SE Section 19-T32S-R28W Meade County, Kansas. **Note. E-Log depths 6' deep to sample log depths.**

	Clawson 1-20 Elevation ,2491' KB Spl/Log/Sub-sea, log	COMPARISON (By "E" Log tops)
Heebner	4297' / 4302' / -1811	-27
Lansing	4443' / 4456' / -1965	-38
Swope Porosity	4880' / 4884' / -2390	-26
Marmaton	5058' / 5054' / -2563	-20
Cherokee	5206' / 5210' / -2719	-19
Morrow Shale	5420' / 5424' / -2933	-17
Chester	5495' / 5501' / -3010	+16

Sample examination, DST and open hole log analysis indicate the possibility of production from the Morrow sand. It is recommended that production pipe be run in order to further test this reservoir.

Respectfully submitted,


Hawkeye Wellsite Geology Services
Gary C. Wilkins, Geologist

GCW/spc

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Littleton, Colorado 80161

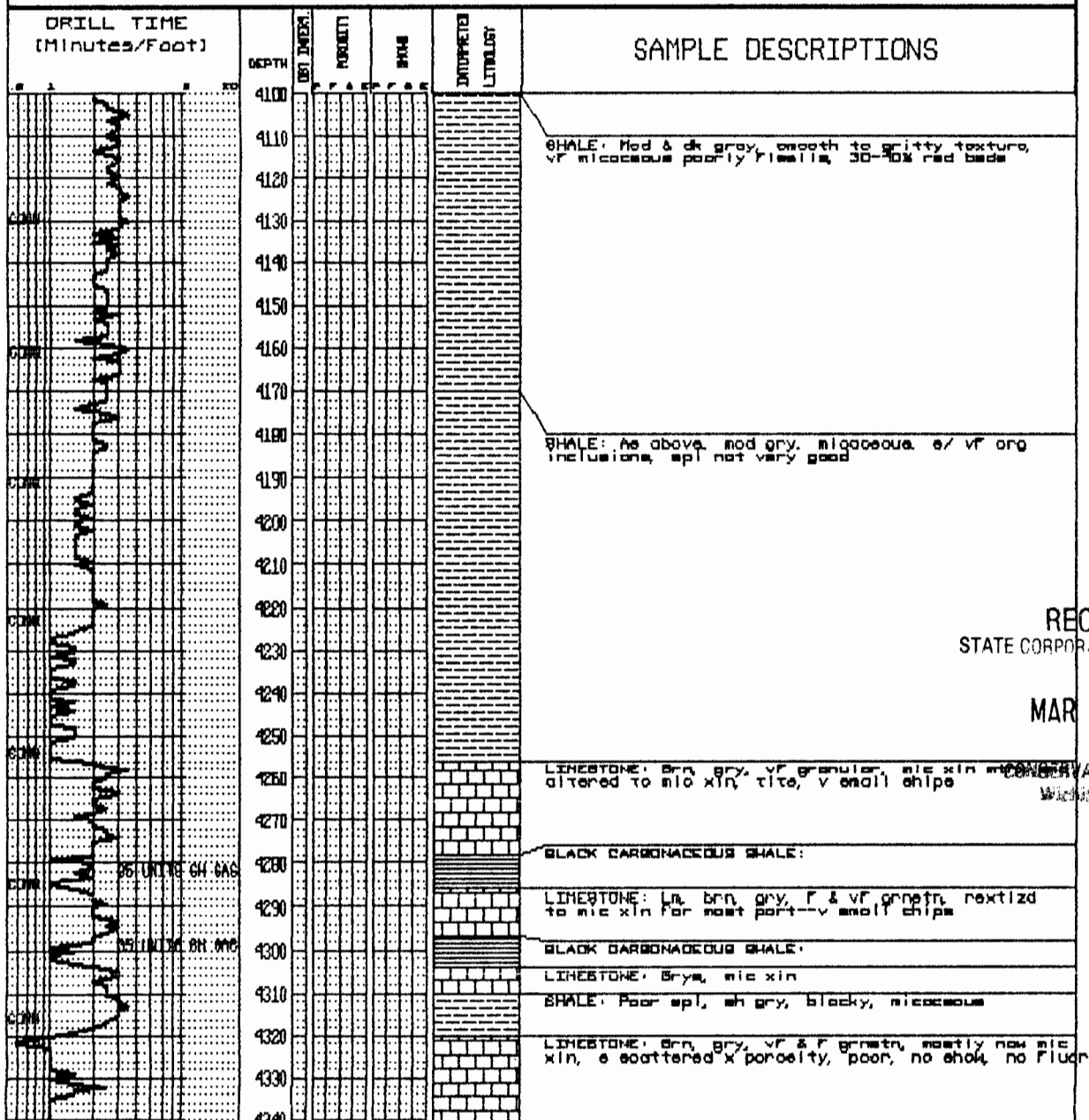
303-267 0261

1-20 CLAWSON TRUST
C 81/2 NW1/4 SEC. 20-T328-R28W
MEADE COUNTY, KANSAS

REMARKS: SPUD 11/18/1999, 8-5/8" x 1389", T.D. 5620', 0130 11/22/99
CONT: ABERDORFIE " 4 GAS DETECTOR OPERATED BT SCW, ORLG MUD BY CHAFFIN ORL
SAMPLES & SHOWS LABBED TO PROPER DEPTH, INTERPRETIVE LITHOLOGY
ELEV. 8705' OR. OR 1731', OPEN HOLE LOGS BY SCHLUMBERGER, DTS'S BY WILCOXITE

	SHALE		LIMESTONE		ANHYDRITE
	BLACK CARBONACEOUS SHALE		DOLOMITE		COLLOIDAL LIMESTONE
	SILTY SHALE SILTSTONE		SHALY LIMESTONE SHALY DOLOMITE		COAL
	SHALY SANDSTONE		SANDY LIMESTONE SANDY DOLOMITE		GRAINSTONE
	SANDSTONE FW, RED, ORG		DOLOMITIZED LIMESTONE CALCAREOUS DOLOMITE		
	LAMINATED SANDSTONE		CHERTY LIMESTONE DOLITED LIMESTONE		
	CONGLOMERATE				

SAMPLE DESCRIPTIONS



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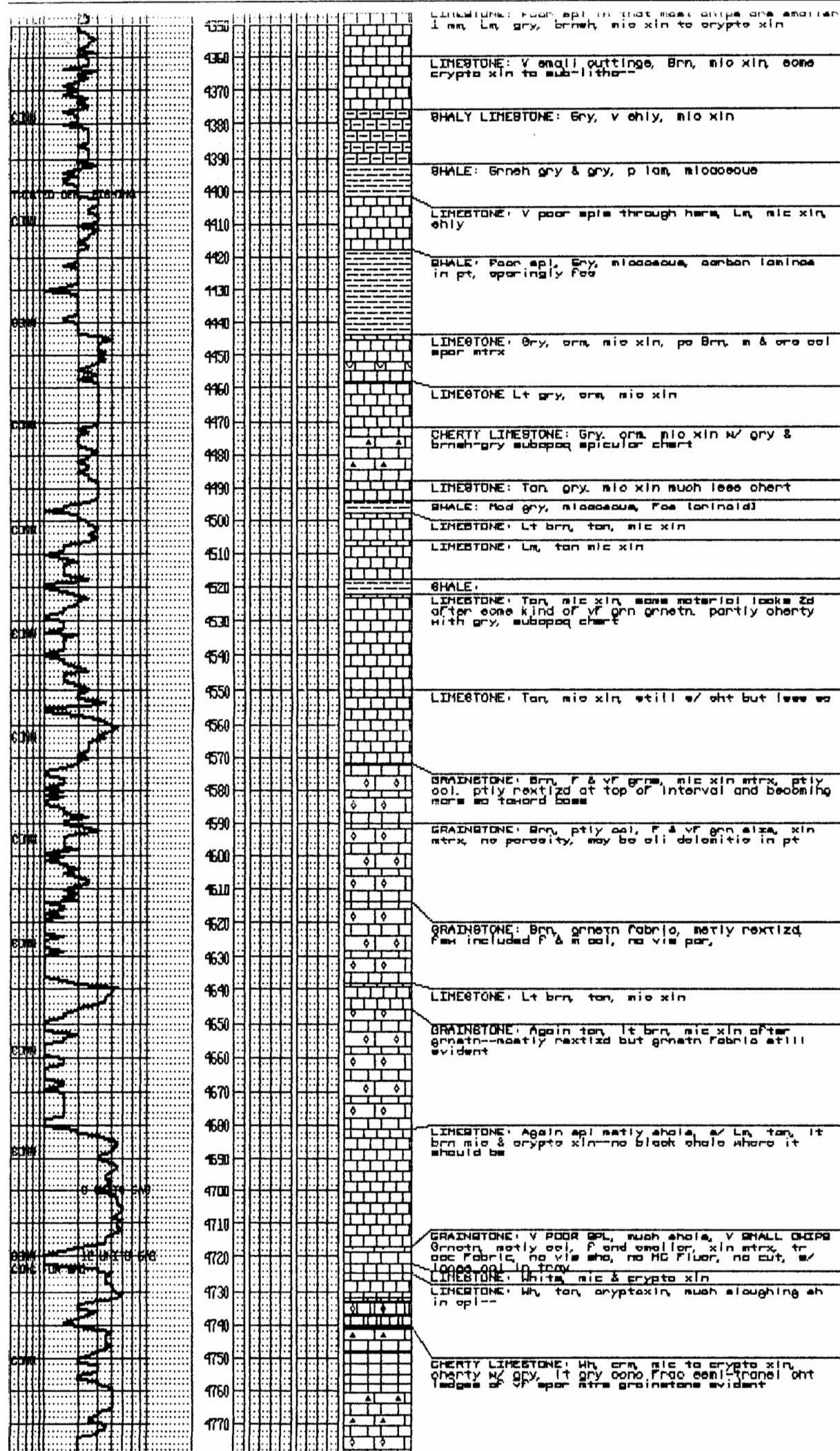
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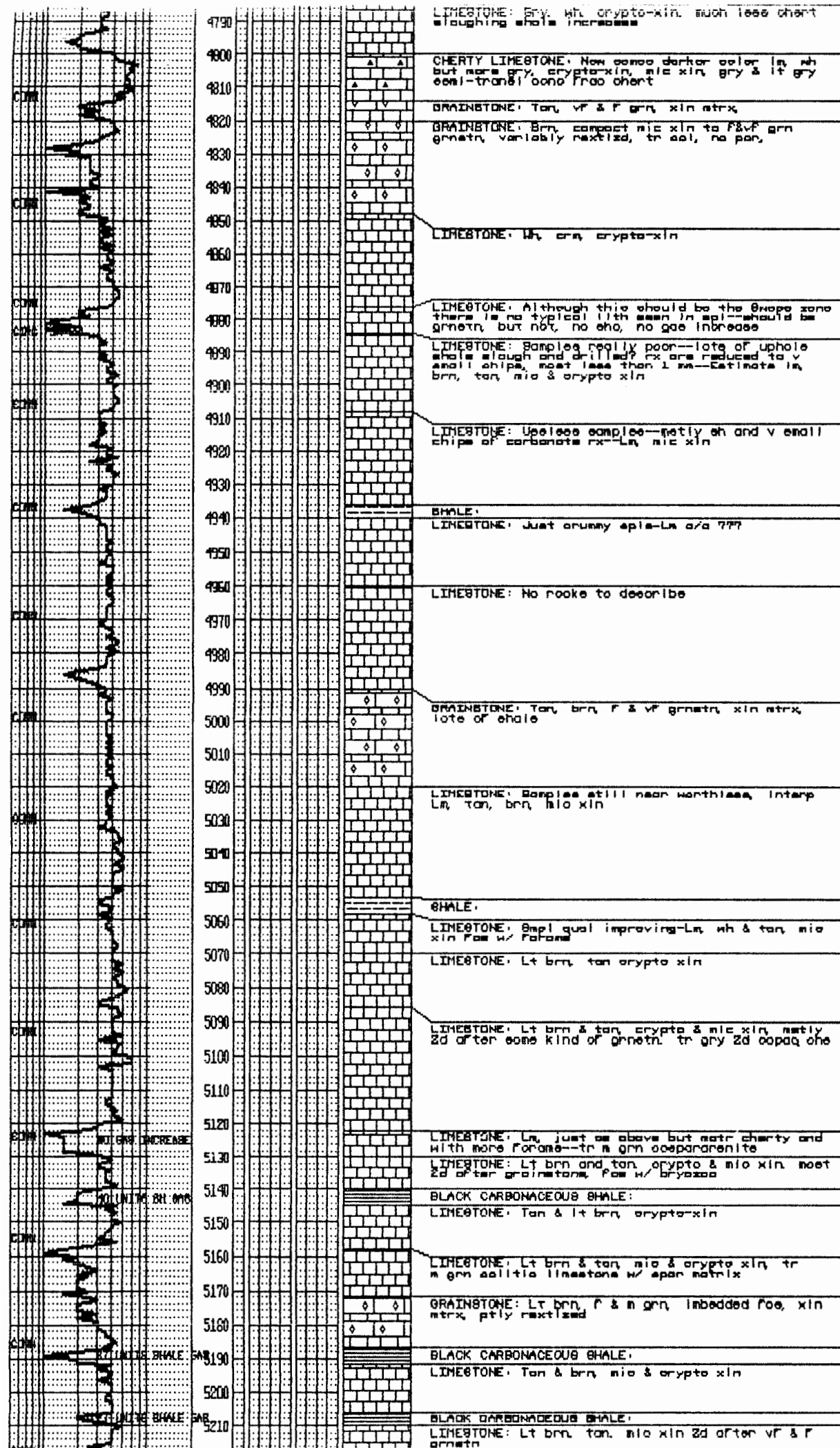
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BLACK CARBONACEOUS SHALE.

GRAINSTONE: Darker colored, brn, gry, f & m grn
s/ brn one & v one collitic limestone w/ a/ vone
flattened ool, clear spar matrix--toward base
grneth altered to mic xln

GRAINSTONE: Lt gry, brn, m & one grn, pty ool
some altered to mic xln, xln mtrx

SHALE: V dk grey, almost black and each on gas
LIMESTONE: Dm, tan, mic xln after grneth

SHALE: As above

LIMESTONE: Samples really crummy--Lm, various
grainstones that have been variably retextured to
mic xln ltr--Hard to properly describe these opto

LIMESTONE: Spis just no good--interpret in a/o

SHALE: Black shardy sh--poor spl

LIMESTONE: Dirty gry, brnsh gry, grneth, f & a/
med grn, w/ nearly blk, microfossiliferous, no
glau, no fss hush ???

WRT: 1. 5415'-5435' OPEN IN RT 30 OPEN 60 RT 90
618 IN YR IN 21 FTH GTS THM GA 23 ACCRD STILL
BUILDING AT END OF FTH REL 2TH 801 FTH 2578
36 & 115 161P 1622 (BLDG), 20 FTH 6 61 & 76, F61P 1877,
FHP 8635. TEMP 130 DEG F.

SANDSTONE: med-gr; Interpret ed from position
gas show and drill rate. No clusters in tray,
only a few free ad grn, f & a grn, some evidence
of ore grn, really handicapped by opt quality
FROM HERE TO T.O. GAS DETECTOR SATURATED W/ TRIP GAS

SHALE: Bright green, smooth, waxy, pyritic, a/ w/
imbedded glauc grn

CHERTY GRAINSTONE: Biocarenite a/o and also
f & v grneth, all w/ xln mtrx and chalky in part
Chert is dk gry and nearly wh, sub-opaq 2d after
grneth--chalk & chalky material still evident

SHALE: Lt med gry, grnsh gry, imbedded fss frogs
poorly fss, non micaceous

GRAINSTONE: Tan, orn & gry m to v one & pebbly
biocarenite, xln mtrx, pty chalky, no vis par
nor ghov, also some gry mic xln in with imbed-
ded fss debris--no chert now

GRAINSTONE: Med gry to tan and orn, in part
better sorted than before, m & one and well
rounded in the gry fraction, the lighter colors
tan and orn, still m to v one & pebbly bio-
arenite, all kinds of fss debris, some with ool
accretion, tite xln mtrx w/ some chalk ledges
po porosity and no show
FINISH

R.T.D. 5620' • 0130 11-22-99

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