

WFX- 358

ROBERT H. BIRDWELL
OIL PROPERTIES

Mon July 2

P. O. DRAWER 40
ARTESIA, NEW MEXICO 88210

June 16, 1971

559 MAIN BLDG.
HOUSTON, TEXAS 77002

Secretary-Director
Oil Conservation Commission
Box 2088
Santa Fe, New Mexico

11 JUN 17 PM 1 08

Re: Cave Pool Unit
Eddy County, New Mexico

Dear Sir:

The Cave Pool Unit was approved by Order No. 2384 and the water-flood was approved by Order No. 2385 with expansion being approved by Order No. 2831.

At this time, we ask approval for conversion of Well No. 24 for injection purposes. We attach plat showing the Cave Pool Unit together with diagrammatic sketch of Well 24 and a copy of the original log showing the pay zone.

We propose to inject water into the casing, after pressure testing, into the Grayburg perforations.

The adjacent injection well No. 51 will no longer take water and we desire to convert No. 24 for injection purposes rather than spending any money on Well No. 51.

If anything further is needed, please advise.

Very truly yours,

Robert H Birdwell

Robert H. Birdwell

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Encs.

CAVE POOL UNIT WELL NO. 24

Approximately
31' of 2 3/8" tbg

11" Hole

207' 8 5/8" csg
w/100 sx cmt

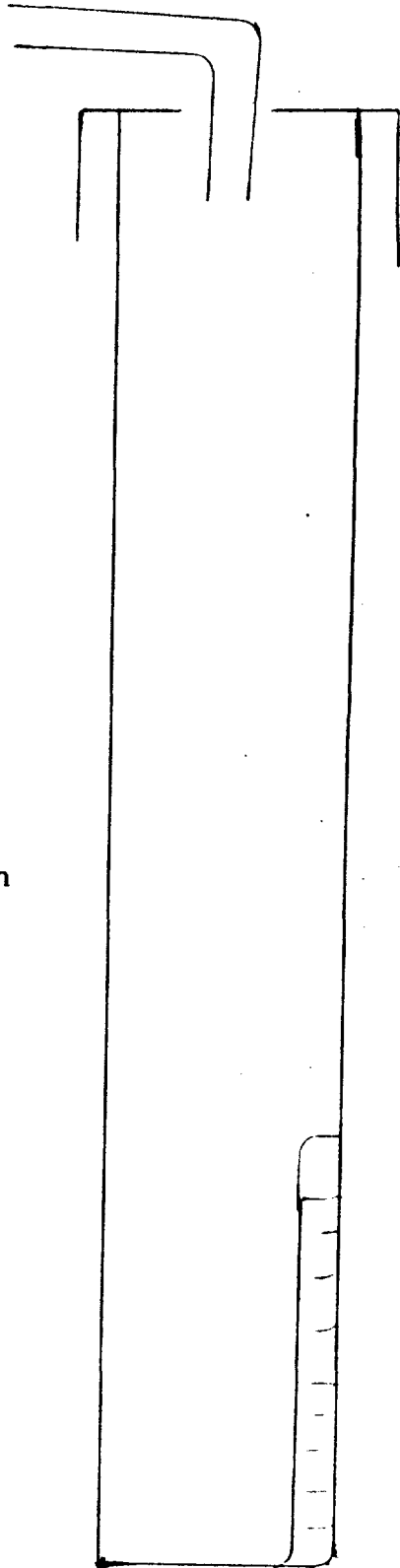
Hole - 6"
5 1/2" csg

Open Hole Completion
2334' to 2391'

HOWCO plug @ 2334'
w/200 sx cmt

Grayburg perforations
2334' to 2391'

T D 2391'





Gamma Ray - Neutron

SIMULTANEOUS

COUNTY Elk
FIELD or LOCATION Cave
WELL Elk State # A-1

COMPANY John M. Kelly

COMPANY JOHN M. KELLY
WELL ELK STATE # A-1
FIELD CAVE
LOCATION SEC. 5-17S-29E
COUNTY EDDY
STATE NEW MEXICO

Location of Well
1650' F S&W/L

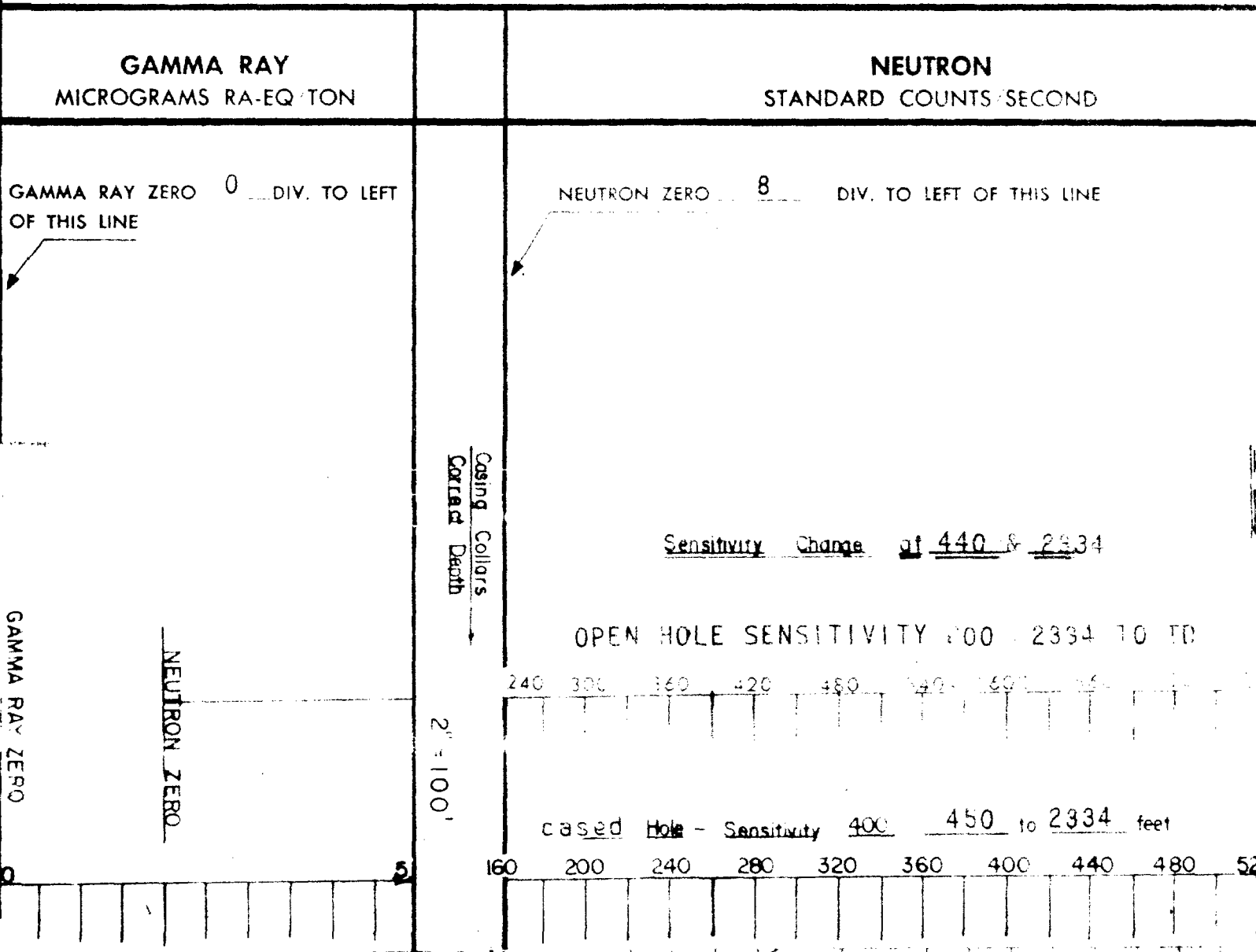
Elevation: D.F.:
K.B.:
or G.L.:

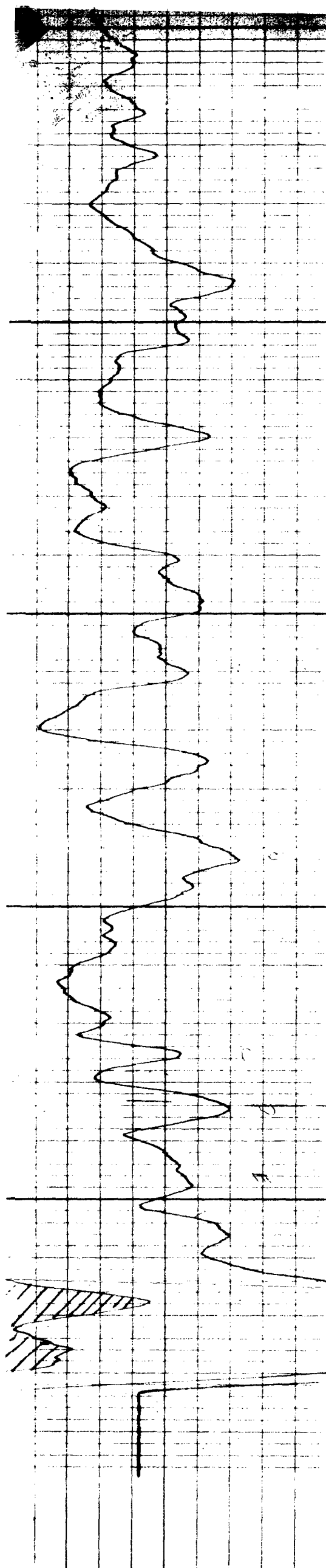
FILING No.

RUN NO.

Date	<u>1-11-57</u>
Depth Reference	<u>DF 2' Abv. GL</u>
First Reading	<u>2382</u>
Last Reading	<u>2382</u>
Footage Measured	<u>2382</u>
Box. Depth Reached	<u>2383</u>
Bottom Driller	<u>2384</u>
Maximum Temp. F.	
Fluid: Nature	<u>Water</u>
Density	
Viscosity	
Resistivity	<u>@</u> <u>F.</u> <u>@</u> <u>F.</u>
Casing Size & Weight	<u>1 5 1/2"</u> <u>to</u> <u>2333</u>
Open Hole	<u>2</u> <u>to</u> <u>2383</u>
Fluid Level	<u>450</u>
Recording Speed (ft/hr)	<u>2000' & 4000'</u>
Sensitivity Top	<u>GR</u> <u>100</u> <u>N</u> <u>1000/400/600</u> <u>N</u>
Time Constant	<u>2/1</u> <u>2</u>
Panel	<u>GNP-C # 255</u>
Opt. Rig Time	<u>2 Hrs.</u>
Probe Size & Type	<u>3 5/8"</u>
Truck No.	<u>1759-1800hs</u>
Observer	<u>Wilson</u>

REMARKS:	CALIBRATION	BACKGROUND CPS	TEST SOURCE CPS	GALV. INCREASE DIVISIONS	PANEL SENS. TOP FOR
	GAMMA RAY	<u>44</u>	<u>160</u>	<u>100</u>	<u>200</u>
	NEUTRON		<u>240</u>	<u>100</u>	<u>400</u>





2200

2300

160 200 240 280 320 360 400 440 480 52

SENSITIVITY CHANGE

240 300 360 420 480 540 600 660 720 78

ILLEGIBLE