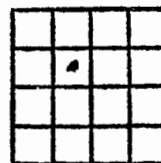


7-20-21W
County Ness

KANSAS



Total Depth. 4400' PB 4367'
Comm. 3-5-64 Comp. 3-18-64
Shot or Treated. 12 shots 4357-61'
Contractor. Peel Bros. Inc.
Issued. 7-25-64

Elevation. 2203' DF

Production. 59 BO, 3 BW/24 HR.s

Figures Indicate Bottom of Formations.

clay & limestone	70
shale & shells	350
shale & sand	440
shale	545
shale & shells	860
sand	1070
redbed	1424
Anhydrite	1457
shale	1631
shale & lime	2392
lime	2685
lime & shale	2795
lime	2905
lime & shale	3030
shale & lime	3200
lime & shale	3285
shale & lime	3460
lime, chalk & shale	3555
lime, shale & chalk	3705
lime	4342
shale, lime & chert	4356
chert & trace dolomite	4378
chert & dolomite	4400
Total Depth	

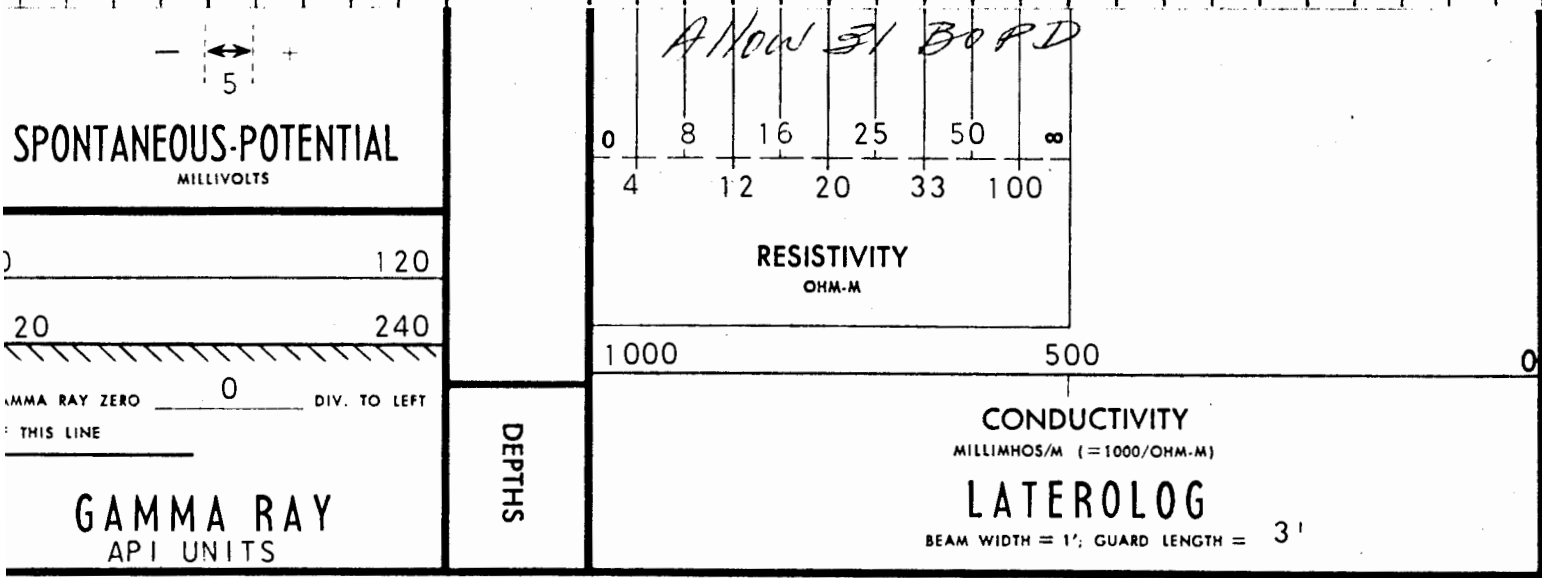
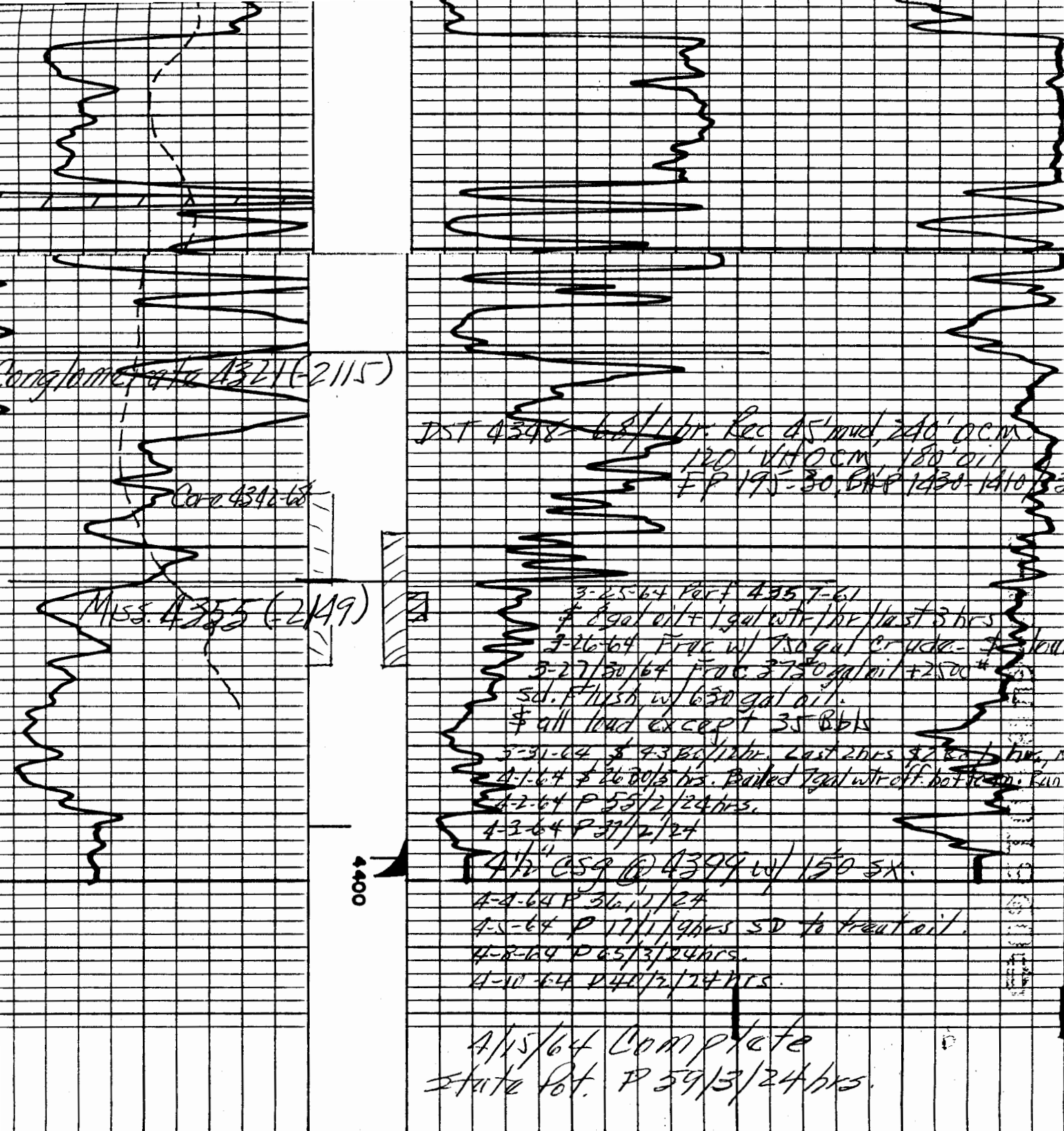
Plugged back to: 4367'

TOPS: LOG

Heebner	3711
Toronto	3732
Lansing	3739
Base Kansas City	4083
Pawnee	4184
Ft. Scott	4262 (4263)
Cherokee Shale	4286
Cherty Conglomerate	4321
Mississippi	4355
Penetration Miss. 44'	

T.D. 4400. PBTD 4367'. Pf. 12 shots 4357-61.
Treated w/20 gals. lease oil. Last 2 hrs.
.6 BOPH (short $4\frac{1}{2}$ BO) Ran tubing w/packer.
Set Packer @ 4342'. Loaded hole w/oil,
frac 4357-61 w/750 gals. lease oil, 500#
plastic coated sand, & 3000 gals. lease
oil w/Adomite & 2000# sand. Followed W/100#
walnut hulls & oil. Swb. 43 BO in 12 hrs.
(7 bbls. new oil) Swb. 25.8 BO in 5 hrs.

Bailed 8 gals. 6.68 gals. wtr. off bottom.
Pumped 55 oil, 2 wtr., 24 hrs. Pumped
37 oil, 2 wtr., 24 hrs. Pumped 42 oil,
2 wtr., 24 hrs. State Potential: Pumped
59 oil, 3 wtr./24 hrs.



COMPANY CITIES SERVICE OIL COMPANY

WELL NO. 2-"A" O'BRIEN

FIELD SCHABEN SOUTH

COUNTY NESS STATE KANSAS

Rm .09 @ 110 °F

Rmf .069 @ 110 °F

Rmc -- @ -- °F

BHT 110 °F

SWSC FR 4396

SWSC TD 4399

DRLR TD 4400

Elev: KB 2206

DF 2203

GL 2198

RADIOACTIVITY CALIBRATION DATA