

LEE H. CORNELL
Petroleum Geologist
 PHONE AREA FIRST 2-3371
 706 ORPHEUM BUILDING
 WICHITA 2, KANSAS

March 11, 1963

S. and C. Drilling, Inc.
 Box 271
 Hays, Kansas

Re: No. 2 Borell "B"
 NW SE NE Sec. 32-15S-11W
 Russell County, Kansas.

Gentlemen:

Drilling progress of the above captioned well was observed from 2660' to total depth. One foot drilling time was kept from 2600' to total depth. Samples were examined at the well and discarded, except for the last 30 feet which were delivered to the Kansas Well Sample Bureau.

MISCELLANEOUS DATA

Contractor: S. and C. Drilling, Inc.
 Surface Hole: Feb. 27, 1963.
 Surface Casing: 8 5/8" set @ 300' and cemented with 160 sacks.
 Oil String: 4 1/2" " 3523' " " " 125 sacks.
 Centralizers: Tip of 1st, 2nd and 15th joints.

FORMATION TOPS

Elevation: 1860 K.B.

Anhydrite	710	+1150
Topeka	2652	- 792
Heebner	2893	-1033
Toronto	2913	-1053
Brown Lime	2984	-1124
Lansing	2993	-1133
Shaley Conglomerate	3285	-1425
Cherty Conglomerate	3303	-1443
Arbuckle	3318	-1458
Pay Section	3324	-1464
Total Depth	3330	-1470

STRUCTURAL POSITION

On top of the Lansing, No. 2 Borell "B" is 8 feet lower than No. 1; on top of the Arbuckle it is 5 feet lower than No. 1, and on the Arbuckle Pay it is 1 foot higher than No. 1 Borell "B".

S. and C. Drilling, Inc.

Re: Geological Report
No. 2 Borell "B"

TOPEKA SECTION

2844-2859: Limestone chalky with some gray chert, trace of dark, free oil, spotted staining. This zone was tested with negative results in No. 1 Borell "B" and is considered to be of no value in No. 2 Borell "B".

LANSING SECTION

There were no shows of oil in the entire Lansing-Kansas City section, except for a very slight stain in the 45 foot zone from 3030' to 3040'.

ARBUCKLE SECTION

3318-3320: Dolomite, fine cryatalline, no odor, no free oil, poor porosity with slight staining.

3320-3325: Dolomite, fine to medium crystalline, faint odor, small show of free oil, slight porosity, fair staining.

SUN D.S.T. #1: 3320-25: Open 1 hr., weak blow for 13 mins. Recovered 12 feet of slightly oil cut mud, no water. ICIP 839#/30 mins; FCIP 749#/ 30 mins. Flow pressures, zero.

3325-3330: Dolomite, medium to coarse crystalline, good odor, good T.D. show of free oil, good intercrystalline porosity with fair to excellent staining.

Because of the favorable structural position of the Arbuckle, the good show of oil in porous dolomite below the interval tested, it was recommended to set production pipe on this test.

Yours very truly,

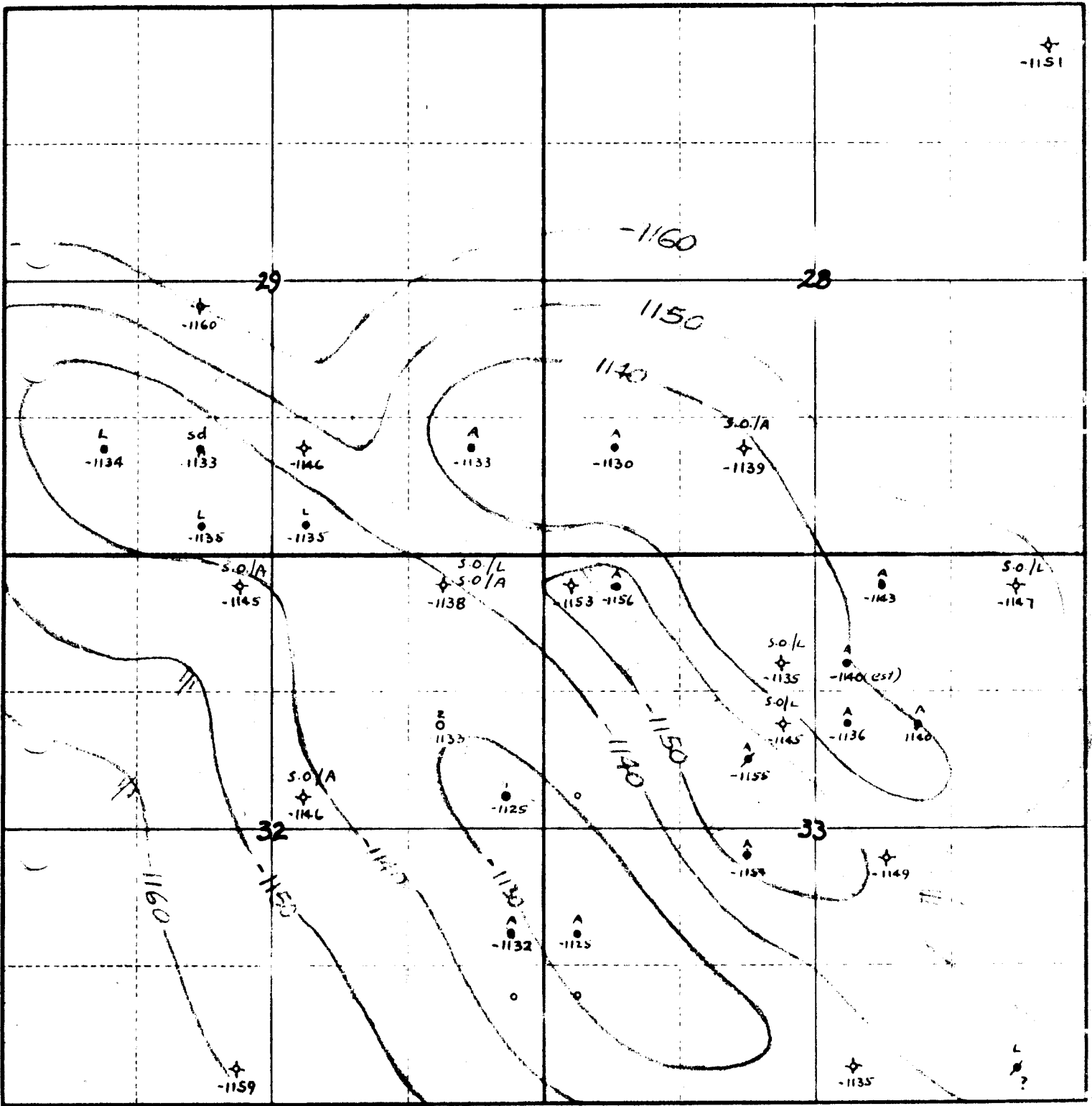


LEE H. CORNELL
Petroleum Geologist.

LHC/mlb
encls.

32-15-11W
Borrell #2 "B"

Township 15 Range 11W County Russell State Kansas

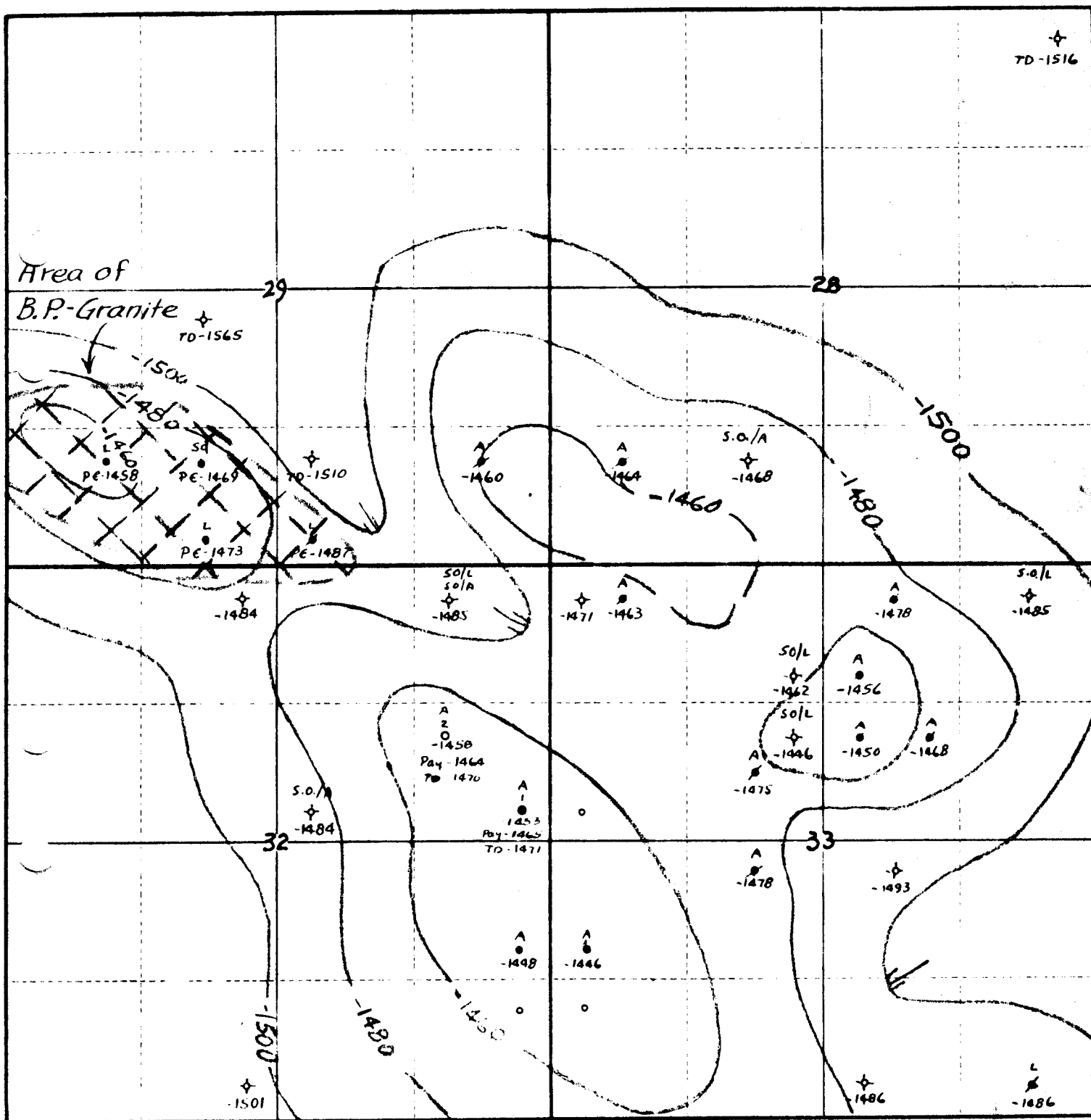


FORM 45

Top of the Lansing
Contour Interval - 10 ft.
By Lee H. Cornell - Jan. '63

32-15-11W
Borell #2 "B"

Township 15 Range 11W County Russell State Kansas



FORM 45



Base of the Pennsylvania
Contour Interval - 20 ft.
By Lee H. Cornell - Jan. '63

No. 2 Borell "B"

BIT RECORD

<u>No.</u>	<u>Make</u>	<u>Type</u>		<u>Depth</u>	<u>Feet</u>	<u>Hours</u>
1	Hughes	OSC-3J	Re-tip	300 1145	845	10
2	Reed	SI-J	" "	1145 1540	395	9 3/4
3	Smith	SV2	" "	1540 1850	310	11 3/4
4	Smith	SV2	" "	1850 2169	319	11 3/4
5	Gruner	Frio		2169 2660	491	15
6	Gruner	Vrui-V		2660 2987	327	26
7	Hughes	OWV		2987 3220	233	19 1/2
8	Hughes	OWV		3220 3325	105	9
9	Gruner	Viola	Re-Run	3325 3330	5	1/2