

## GEOLOGICAL REPORT

O. A. Sutton, et al #1 HOOVER  
NW NW SE Sec. 19-338-3W, Sumner Co., Ks.

ELEVATION: 1242 DF - 1245 KB (All measurements are from Kelly Bushing)

COMMENCED: December 7, 1959

SURFACE CASING: 8-5/8" casing set at 220 feet with 180 ex. cement.

UNDER SURFACE: 12:01 P.M. December 8, 1959

COMPLETED: December 29, 1959 - Dry and Abandoned.

### FORMATION TOPS:

	<u>Schlumberger Tops</u>
Stalnaker Sand	3120- (1875)
Kansas City	3421- (2176)
Mississippian	4092- (2847)
Kinderhook	4432- (3187)
Simpson	4501- (3256)
Total Depth	4613- (3368)

[OWLL]

### ZONES OF POROSITY & STAINING:

#### Stalnaker Section:

3122-3209 Sandstone, white to grey, fine to medium grained, friable to tightly cemented; good porosity, no show.

#### Kansas City Section:

3545-3554 Limestone, oolitic and slightly oolitic; good porosity, no show.

3652-3660 Limestone, grey, very dense, faint odor and fluorescence; no show of oil, very poor porosity.

#### Mississippian Section:

4093-4119 Limestone, white to grey, dense, slightly cherty, no porosity, no show.

4119-4135 Chert, white, sharp to tripolitic, fair odor and show of free oil in small percentage of the samples.

DST #1 4117-4135 - Tool open 1 hour, recovered 495 feet fluid; 255 feet heavily gas cut mud and watery mud, 240 feet salt water, IBHP 1680# in 30 min., FBHP 1550# in 30 min., FP 120-185#.

## Simpson Section:

4501-4504½ Sand, white to clear, mostly very dense with slight show of oil and fluorescence in a few pieces.

2501  
1245  
3756  
DST #2 4470½-4504½ - Tool open 2 hours, fair blow throughout, recovered 60 feet mud with rainbow show of oil, FP "0", ISIP 520# in 20 min., FSIP 140# in 30 min.

4504½-4510 Sand, light tan, fine grained, fair fluorescence, slight odor & taste with abundant shale.

DST #3 4503-4510 - Tool open 30 minutes, weak blow for 5 minutes, flushed twice, recovered 40 feet mud, no show. ISIP 1550# in 30 minutes, FSIP 150# in 30 min., FP "0".

4510-4515 Several clusters of sand, white, fine grained, good porosity, good show of free oil, good bright fluorescence, gas bubbles, good taste. 10% of sand white to light grey, shaley and dolomitic, no show. Trace of light green shale.

DST #4 4504-4515 - Tool open 1 hour, weak intermittent blow for 30 minutes, flushed once, recovered 15 feet mud, no show, SIP "0"#, FP "0".

4515-4520 Sand, white to light grey, medium to fine grained, rounded, clear, quartz, calcareous in part. 20% with good show of free oil, gas bubbles, fluorescence and good taste.

DST #5 4504-4520 - Tool open 1½ hours, fair blow, recovered 270 feet of muddy salt water, ISIP 1800# in 30 min., FSIP 1760# in 30 minutes, FP 55-140#.

4520-4530 Sand, grey to clear, fine to medium grained, fair show of oil in 5% of the samples.

4530-4540 Sand, as above, with only a slight show.

4540-4570 Sand, as above, no show.

4570-4605 Sandstone, fair porosity as above with slight show of dead oil.

4605-4613 Sand, as above, less friable and slightly quartzitic, no show.

**STRUCTURAL POSITION:**

On top of the Simpson sand, the #1 Hoover was 16 feet higher than Texaco's #1 Wethington and 9 feet higher than Dorset Co. #1 Wethington.

**RECOMMENDATION:**

Since the only oil and gas shows encountered were drill stem tested with negative results, it was recommended that this test be plugged and abandoned.



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Geologist

RKG/hp