

12-28-13W

July 20, 1966

GEOLOGICAL WELL REPORT

William Gruenerwald & Associates, Inc.

#1 Hodgin, C SW NW, ✓  
Section 12-T28S-R13W, Wildcat, ✓  
Pratt County, Kansas

Contractor: Garvey Drilling Company

Spud: July 6, 1966 ✓

13" surface casing @ 178'

8-5/8" surface casing @ 697'

Dry & Abandoned: July 18, 1966

Total Depth: 4473 (Rotary) 4478 (E.Log) ✓

William Gruenerwald & Associates, Inc.

P. O. Box 909

Colorado Springs, Colorado

Gentlemen:

Listed below are the pertinent geological tops, an evaluation of the porosities encountered and a record of all tests made at the captioned well.

I arrived at the location at a depth of approximately 3720, and witnessed the drilling to TD 4473. Samples were examined from 3650 - 4473 TD. The hole was logged electrically before being abandoned, that data included herein.

Enclosed herewith is a copy of the plotted drilling time log which also includes lithology, geologic tops, tests, and other pertinent data.

Electric Log Tops

Elevation: 1840 KB

Heebner	3566 (-1726)
Brown Lime	3742 (-1902)
Lansing-Kansas City	3761 (-1921)
Base of Kansas City	4112 (-2272)
Mississippian Chert	4194 (-2354)
Viola	4288 (-2448)
Simpson	4332

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4355-65 (rotary measurement)  
Sandstone, clean, medium grained tightly  
lime cemented to loosely cemented, porous.  
Scattered oil stains, trace of free oil.

Simpson Sand 4378 (-2538)  
4378-4412 Sandstone, white, clustered,  
clean, varying degrees of cementation.  
Some good porosity, scattered oil stains.

Arbuckle 4467 (-2627)  
Good oolitic porosity in upper few feet,  
no show of oil.

#### Drill Stem Tests

Drill Stem Test #1 4343-64  
10 minutes pre-flow, shut in 30 minutes.  
Tool open 1½ hours. Fair blow decreasing to  
a weak blow. Shut in 30 minutes. Recovered  
300 feet of gas in pipe, 150 feet of fluid  
including 90 feet of slightly oil cut, gassy  
mud and 60 feet of muddy salt water.  
IFP 34#; FFP 85#; IBHP 1387#/30 minutes;  
FBHP 1302#/30 minutes. Temperature 120°F.

Drill Stem Test #2 4364-4403  
10 minutes pre-flow, shut in 30 minutes.  
Tool open 1½ hours. Good blow throughout test.  
Shut in 30 minutes. Recovered 120 feet of gas  
in pipe, 540 feet of fluid including 120 feet  
of slightly oil cut, gassy mud, and 420 feet  
of muddy salt water.  
IFP 102#; FFP 264#; IBHP 1478#/30 minutes;  
FBHP 1409#/30 minutes. Temperature 128°F.

#### Conclusions and Recommendations

The subject well is not considered low structurally and is interpreted as being located on a southwest plunging nose. It is a few feet higher than a dry hole ¾ mile southwest on the top of the Arbuckle and is 51 feet higher than a dry hole southeast slightly more than 1/2 mile.

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Your #1 Hilliard, drilled last year and located in Section 1, 3/4 mile northeast is 28 feet higher than the subject well on the top of the Simpson, which is considered to be a normal relationship.

Good reservoir conditions were found in the Simpson, yielding only minor oil and gas shows but carrying relatively high pressures. It is felt the tests lacked only a more favorable structural position.

Since all "shows" of merit were tested negatively, it was recommended that the well be abandoned as a dry hole.

Yours very truly,

T. G. Wright

William Gruenerwald & Associates, Inc.  
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Bit Record

Hughes	OSC3J	697-2028'
Hughes	OWV	2028-2360'
Hughes	GIC	2360-2971'
Hughes	GIC	2971-3421'
Hughes	GIC	3421-3721'
Hughes	OWV	3721-3898'
Hughes	W7	3898-4105'
Hughes	W7	4105-4206'
Hughes	W7R2	4206-4250'
Hughes	W7R2	4250-4320'
Hughes	W7R2	4320-4364'
Hughes	W7R2	4364-4381'
Hughes	W7R2	4381-4403'
Hughes	W7R2	4403-4423'
Hughes	W7	4423-4473' TD

Drilling Progress

7-6	Spud
7-7	420'
7-8	1060' -
7-9	2260' - 2125'
7-10	2971' - 2635'
7-11	3455'
7-12	3835' ✓
7-13	4068'
7-14	4244'
7-15	4359'
7-16	4403'
7-17	4434'
7-18	4473' TD & D&A

4406 3526 6

Company Sturman Date 7/15/66  
 Lease & Well No. Hobson 1  
 Tested by H. Thompson  
 D.S.T. No. 1 TD 4364  
 Interval Tested From 4343 To 4364  
 Mud Wt. 10.1 Vis. 4.2  
 Hole Size 7 7/8 D.P. 4 1/2 D.C. 6"  
 Surface Choke 1" B.H. Choke 3/4"  
 Tool Open 10 min 2:40 PM Surface Pressure  
 and/or Blow Fail - Blow TO  
WORK 13 min  
 Tool Open \_\_\_\_\_ Hrs. 90 Min.  
 Initial Shut-In \_\_\_\_\_ Hr. 30 Min.  
 Final Shut-In \_\_\_\_\_ Hrs. 30 Min.  
 Fluid Recovered \_\_\_\_\_ Ft.  
90' Slit oil + 6 cm  
60' Muddy with Slit oil  
 I.Hyd.P. 2333 I.C.I.P. 1387 I.F.P. 34  
 F.F.P. 85 F.C.I.P. 1302 F.Hyd.P. 2316  
 Max. Temp. 112 F. O.K.  Mis-Run \_\_\_\_\_  
 Type Anchor Used None  
 Remarks THANKS  
Bill Thompson

Company Sturman Date 7/15/66  
 Lease & Well No. Hobson 1  
 Tested by H. Thompson  
 D.S.T. No. 2 TD 4403  
 Interval Tested From 4364 To 4403  
 Mud Wt. 10.1 Vis. 4.4  
 Hole Size 7 7/8 D.P. 4 1/2 D.C. 6"  
 Surface Choke 1" B.H. Choke 3/4"  
 Tool Open 10 min 12:15 PM Surface Pressure  
 and/or Blow Fail - Increasing  
To Gas  
 Tool Open \_\_\_\_\_ Hrs. 90 Min.  
 Initial Shut-In \_\_\_\_\_ Hr. 30 Min.  
 Final Shut-In \_\_\_\_\_ Hrs. 30 Min.  
 Fluid Recovered \_\_\_\_\_ Ft.  
120' Slit oil + oil cut mud  
420' Muddy water  
 I.Hyd.P. 2367 I.C.I.P. 1472 I.F.P. 102  
 F.F.P. 264 F.C.I.P. 1409 F.Hyd.P. 2350  
 Max. Temp. \_\_\_\_\_ F. O.K.  Mis-Run \_\_\_\_\_  
 Type Anchor Used All Perf.  
 Remarks THANKS  
Bill Thompson

