

GEOLOGICAL REPORT

Dan A. Nixon

PETROLEUM GEOLOGIST

WELL #1 LOCATION NE SE SW of Section 16, T10S-R22W Rooks County, Ks. LEASE Griffith

Oper: Walters Oil Operations

Operator: R.P. Nixon Operations
207 West 12th Street
Hays, Kansas 67601

Contractor: Jay-Lan Corp. Rig #3
207 West 12th Street
Hays, Kansas 67601

Elevation: American Elevations
Ground level: 2352'
Rotary bushing: 2359'
All measurements are from
the rotary bushing.

Samples: Ten foot samples from 3300' to
3575' and five foot samples
from 3575' to 4100' RTD.

Time Log: One foot intervals from 3300'
to 4100' RTD. A copy of the
time log is included in this
report.

Surf. casing: 8 5/8" @ 204' w/130 sx - 60/40 Pozmix
Prod. casing: None - D & A
Port Collar: None

Spud date: 2-15-86
Comp. date: 2-24-86

API #: 15-065-22,296
Lease #: 3037/1

MAR 25 1986

State Geological Survey
WICHITA BRANCH

STATE COMMISSION

MAR 24 1986

SUPERVISION DIVISION
Wichita, Kansas

75731
16-10-22W

R. P. Nixon Operations

R. P. Nixon, Geologist & Oil Producer ^N

207 West Twelfth

HAYS, KANSAS 67601

Phone: 913-628-3834

#1 GRIFFITH DAILY DRILLING REPORT

API 15-065-22,296

NE SE SW SEC.16, T10S-R22W

LSE/WELL#3037/1

GRAHAM COUNTY, KANSAS

- 02-14-86 Moved in Jay-Lan Corporation rotary tools and rigged up.
- 02-15-86 Set 5 joints of 8 5/8" surface casing at 204' with 130 sacks 60/40 Pozmix cement 3% c.c. 2% gel. Plug down and 5:45 p.m. Cement by B-J Titan Services.
- 02-16-86 Rig down for repairs to drawworks starter motor.
- 02-17-86 Rig down for repairs to drawworks starter motor.
- 02-18-86 Rig down for repairs to drawworks starter motor.
- 02-19-86 Started drilling at 1:00 p.m.
- 02-20-86 Drilling ahead at 2100' @ 7:00 a.m.
Anhydrite 1874'-1915'.
Elevation 2359 KB.
- 02-21-86 Drilling ahead at 2945' @ 7:00 a.m.
- 02-22-86 Drilling ahead at 3605' @ 7:00 a.m.
- 02-23-86 Drilling ahead at 3848' @ 7:00 a.m.
- 02-24-86 Logging at RTD 4100'
Log Tops:

Topeka	3364'
Heebner	3578'
Toronto	3603'
Lansing	3620' (-1261)
Base Kansas City	3840'
Marmaton	3926'
Conglomerate	3992'
Arbuckle	4050'
RTD	4100'
LTD	4098'

MAR 03 1986
KANSAS GEOLOGICAL SURVEY BRANCH

The Kansas City J Zone calculated 14% porosity and 27% water saturation on the log. The Lansing Kansas City top is 5' low to the #1 Webster to the southeast.

DST #1 3796'-3837' J Zone Recovery: 15' of mud.

IFP: 43-43, ISIP: 716, FFP: 76-76, FSIP: 683

Due to the negative results of DST #1 and its low structural position the #1 Griffith will be plugged and abandoned. Geological report to follow.

KANSAS GEOLOGICAL SURVEY

FEB 27 1986

CONSERVATION DIVISION

Griffith #1

16-10-22W

16-10-22W

FORMATION TOPS:

<u>FORMATION TOPS:</u>	<u>SAMPLE DEPTH</u>	<u>LOG DEPTH</u>	<u>MINUS DATUM</u>
Anhydrite top (driller's)	1874'	1879'	+480
Anhydrite base	1915'	1914'	+445
Topeka	3366'	3364'	-1005
Heebner Shale	3579'	3578'	-1219
Toronto Lime	3600'	3603'	-1244
Lansing	3614'	3620'	-1261
Base of the Kansas City	3841'	3840'	-1481
Marmaton Chert	3928'	3926'	-1567
Conglomerate	3990'	3992'	-1633
Arbuckle Dolomite	4051'	4050'	-1691
Total Depth	4100'	4098'	-1691

SAMPLE ANALYSIS OF ZONES OF INTEREST: (corrected to the electric log)

Lansing	3620'-28'	Cherty, white, fine crystalline lime, slight vuggy porosity, trace of rare spotty stain. Very slight show of free oil, no odor. Calculated 11% porosity, 46% water.
	3657'-61'	Vuggy, fine crystalline, white and off-white lime, slight vuggy porosity, trace of rare light stain. No show of free oil or odor. Calculated 15% porosity, 38% water.
	3674'-79'	Barren, white, fossiliferous lime, fair inter-fossil porosity. Calculated wet on log.
	3703'-11'	Fossiliferous and vuggy, white lime, fair vuggy porosity, barren to trace of rare dark spotty stain. Occasional white, finely developed, oolitic lime, fair oolitic porosity. Calculated wet on log.
	3755'-58'	Dense, buff, fossiliferous, barren lime, trace of poor fossil porosity and rare spotty stain. Calculated tight and wet on log.
	3792'-98'	Sucrosic, fine crystalline, white lime, slight vuggy porosity, spotty stain with a trace of saturated stain. Show of free oil and slight odor. Calculated tight and wet on log. Open on DST #1.
	3811'-14'	Cherty, fossiliferous, vuggy white lime, spotty light stain, slight vuggy porosity. Show of free oil and odor. Calculated 14% porosity, 27% water. Open on DST #1.

MAR 25 1986

State Geological Survey
WICHITA

Griffith #1

16-10-220

75731

Drill Stem Test #1 Results:

Interval: ~~3796'~~-3837' (Straddle)
15"-30"-10"-30" (Very weak blow on 1st opening only)

Recovery: 15' mud
IFP: 42-51#
ISIP: 736#
FFP: 59-67#
FSIP: 701#
BHT: 108° F

Arbuckle 4050'-4098

Buff, fine and medium crystalline, sucrosic dolomite, barren with fair intercrystalline porosity. Occasional coarse crystalline, rhombic, barren, buff dolomite with good intercrystalline porosity. Upper 4' calculated 11% porosity, 50% water, with remainder calculating higher water saturation.

REMARKS:

Structurally, the Lansing top on the #1 Griffith ran 5' low to the abandoned producer to the south one location and east one location, the #1 Webster (A Scott Ritchie), and 1' low to the dry hole two locations south, the #1 Dreiling B (Imperial Oil). No Conglomerate Sand was encountered throughout the Conglomerate section.

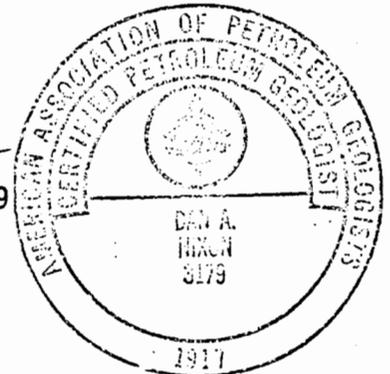
The Arbuckle top on the #1 Griffith ran 15' low to the nearest well which encountered Arbuckle, #1 Lasley (Fred Drlg. Co.), located three locations north.

Based on its structural position to surrounding production and dry holes, and negative results of DST #1, the #1 Griffith was plugged and abandoned.

Respectfully Submitted,



Dan A. Nixon, C.P.G. #3179



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