

Computer Inventories

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State Geological Survey  
WICHITA, BRANCH

30-1-18W<sub>pi</sub>  
RECEIVED  
STATE CORPORATION COMMISSION  
APR 28 1982  
CONSERVATION DIVISION  
Wichita, Kansas

GEOLOGICAL REPORT:

Schluntz No. 2  
C-NE-NW, 30-1S-18W  
Phillips County, Kansas

CONTRACTOR:

Abercrombie Drilling Co., Rig 10

DRILLING COMMENCED:

April 24, 1981

DRILLING COMPLETED:

April 30, 1981

CASING RECORD:

8 5/8" set at 248' cemented with 180 sx.  
class A, 2% gel., 3% cc. 4 1/2" set at  
3600' cemented with 50 sx. 50/50 poz.,  
10.5 lbs gil./sx., followed by 125 sx.  
60/40 poz., 2% gel., 12% salt.

SAMPLES:

10' intervals from 3250' to 3600' R.T.D.

DRILLING TIME:

By Geolograph  
1' intervals from 3150' to 3600' R.T.D.  
A copy of the plotted time/lithology  
log is included with this report.

DRILLSTEM TESTS:

2 by Cheney Testing Co.  
Hays, Kansas

LOGS:

Petro-Log (Great Bend, Kansas)  
Radiation Guard Log

ELEVATION:

Laughlin-Simmons Co., of Kansas  
Kelly Bushing 2153'  
Ground Level 2145' ✓  
Measurements from K.B.

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Schlutz #7

K.B. 2153 PI

Ground L. 2145

FORMATION TOPS

(Petro Log R.A. Guard Log)

30-1-18w

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUMS</u>
Anhydrite	1747	+ 406
Base Anhydrite	1765	+ 388
Topeka	3041	- 888
Heebner	3312	- 1159
Toronto	3339 -	- 1186
Lansing - Kansas City	3356 -	- 1203
Base - Kansas City	3579 -	- 1426
Rotary T.D.	3600	- 1447
Log T.D.	3602	- 1449

Lithology: Zones of Interest

Toronto 3339-42	LS; white to light gray, fine crystalline, dense to chalky. Trace of pinpoint porosity. No free oil or odor.
Lansing- Kansas City 3356-63 A Zone	LS; white, fine crystalline and dense, slightly oolitic. Trace of very light stain. No free oil or odor.
3392-96 C Zone	LS; white to brown, fine crystalline, trace of light stain, slightly fossiliferous. No free oil or odor.
3412-16 D Zone	LS; white to light gray, fine crystalline and dense, slightly chalky. Trace of free oil and light stain, no odor.
3430-34 F Zone	LS; white to buff, fine crystalline and chalky. Trace of light stain, no free oil or odor.
3450-54 G Zone	LS; white to buff, fine crystalline, dense to chalky. Trace of spotty stain, no free oil or odor.

Lithology  
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- |                                   |  |
|-----------------------------------|--|
| 3486-88<br>H Zone                 | LS; white to buff, crystalline and chalky. Trace of very poor stain. No free oil or odor.                            |
| 3505-07<br>&<br>3512-14<br>I Zone | LS; white to tan, fossil crystalline porosity, with free oil, fair odor and dark stain. ✓                            |
| 3522-Top<br>J Zone                | LS; white to buff, fine crystalline and dense, slightly uugular. Trace of free oil and light stain. ✓                |
| 3550-54<br>K Zone                 | LS; buff to brown, fine crystalline and dense. No free oil or odor.  |
| 3560-Top<br>L Zone                | LS; buff to brown, fine crystalline with a trace of fair crystalline porosity, slightly chalky. No free oil or odor. |

NOTE: No shows below the Base of the Kansas City.

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P)  
30-1-186

DRILLSTEM TESTS:

Drillstem Test No. 1

3375-3440 L.K.C.

Time: Open 30 min., Shut in 45 min., Open 30 min., Shut in 45 min.

Blow: Initial - building weak blow  
Final - weak

Recovery: 62' of oil specked mud

IHMP: 1733#  
ISIP: 860#  
FSIP: 840#  
FHMP: 1713#

IFP: 29-29  
FFP: 59-39  
BHT: N.A.

Mud Wt. 9.4

Vis. 47

Wl. 8.8

Drillstem Test No. 2

3492-3535 L.K.C.

Time: Open 60 min., Shut in 45 min., Open 30 min., Shut in 45 min.

Blow: Initial - weak  
Final - weak

Recovery: 15' of heavy oil cut mud

IHMP: 1811#  
ISIP: 673#  
FSIP: 712#  
FHMP: 1723#

IFP: 49-39  
FFP: 49-39  
BHT: N.A.

Mud Wt. 9.1

Vis. 102

Wl. 9.2

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BIT RECORD

	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SERIAL</u>	<u>JET SIZE</u>	<u>DEPTH OUT</u>	<u>FEET</u>	<u>HOURS</u>
1.	7 7/8	Reed	Y-12	912993	14/32	1740'	1491'	10.45
2.	7 7/8	Reed	Y-13T	912585	14/32	2347'	607'	10.25
3.	7 7/8	Reed	HS551	931592	14/32	3440'	1093'	49.75
4.	7 7/8	Smith	F-3	BK7359	14/32	3600'	160'	11.25

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REMARKS AND RECOMMENDATIONS

30-1-18W

The table below compares the Schluntz No. 2 with the Schluntz No. 1.

	<u>JAMES D. BERWICK</u> <u>SCHLUNTZ NO. 2</u>	<u>JAMES D. BERWICK</u> <u>SCHLUNTZ NO. 1</u>
	C-NE-NW 30-1S-18W	
Topeka	3041 (- 888)	3026 (- 894)
Toronto	3339 (-1186)	3321 (-1189)
Lansing	3356 (-1203)	3335 (-1203)

After reviewing the table above, you will note that the two above captioned wells were flat structurally.

In reviewing the samples, drill stem tests and log, the I Zone should be perforated and treated. Also the C and F Zones should be perforated at the time of initial completion or before abandonment. The shows in these zones and the log characteristics warranted further testing a 4 1/2 production casing was set.

Prior to completion of the Schluntz No. 2, I recommend a cased hole gamma ray-neutron collar log be run to accurately locate and evaluate all zones of porosity.

Respectfully,



David Shumaker

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