

ORIGINAL

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Becker Oil Corporation
Russell 'A' #1
50' SE 30' W N/2-SW-SE
Section 13-25s-13w
Stafford County, Kansas
Page No. 1

RECEIVED
MAY 05 2003
KCC WICHITA

4 1/2" Production Casing Set

- Contractor:** Sterling Drilling Company (Rig #1)
- Commenced:** December 27, 2002
- Completed:** January 4, 2003
- Elevation:** 1942' K.B.; 1922' D.F.; 1915' G. L.
- Casing Program:** Surface; 8 5/8" @ 299'
Production; 4 1/2" @ 2995'
- Samples:** Samples saved and examined 1700' to the Rotary Total Depth.
- Drilling Time:** One (1) foot drilling time recorded and kept 1700' to the Rotary Total Depth.
- Measurements:** All depths measured from the Kelly Bushing.
- Formation Testing:** There were four (4) Drill Stem Tests ran by Trilobite Testing Co.
- Electric Log:** By Eli Wireline Services; Compensated Neutron Log/Density PE Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	724	+1200
Chase (Upper Krider)	1846	+78
Winfield	1901	+23
Towanda	1965	-41
Ft. Riley	2003	-79
Florence	2055	-131
Base Florence	2096	-172
Wreford	2118	-194
Council Grove	2178	-254
Crouse	2215	-291
Bader	2283	-359
Cottonwood	2325	-401
Neva	2375	-451
Red Eagle	2461	-537
Foraker	2486	-562
Onaga Shale	2594	-670
Indian Cave Sand	2600	-676
Wabaunsee	2628	-704
Upper Tarkio Sand (Langdon Sand)	2676	-752
Middle Tarkio Sand	2718	-794
Stotler	2749	-825
Lower Tarkio Sand (Willard Sand)	2780	-856
Tarkio Lime	2808	-884

Bern	2880	-956
Scranton	2925	-1001
Howard	2955	-1031
Severy	3012	-1088
Rotary Total Depth	3020	-1096
Log Total Depth	3020	-1096

(All tops and zones are corrected to Electric Log measurements.)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

CHASE SECTION

- 1846-1860' Dolomite; tan and brown, finely crystalline, sucrosic, poor visible porosity, trace gas bubbles.
- 1860-1870' Dolomite; as above, plus tan, finely crystalline, sucrosic, dolomite, fair pinpoint intercrystalline porosity, trace gas bubbles, (47 unit gas kick).
- 1875-1880' Dolomite; gray to tan, finely crystalline, few look shaley, increasingly pinpoint type porosity, trace gas bubbles, (37 unit kick).
- 1880-1898' Dolomite; gray, shaley plus trace dolomite as above, (47 unit kick).

Drill Stem Test #1 1823-1898'

Times: 20-30-60-90

**Blow: Initial open; weak to fair (1/2"-6")
 Final open; strong (B.O.B. 25 minutes)**

**Recovery: 240 gas in pipe
 10' gas cut mud**

**Pressures: ISIP 91 psi
 FSIP 480 psi
 IFP 21-27 psi
 FFP 21-29 psi
 HSH 884-831 psi**

WINFIELD SECTION

- 1903-1920' Dolomite; gray and tan, mottled, finely crystalline, few sucrosic, scattered intercrystalline to pinpoint porosity, plus trace gray dolomitic limestone. (47 unit kick).
- 1920-1930' Dolomite; as above, shaley in part, (38 unit kick)
- 1933-1950' Dolomite; gray, finely crystalline, scattered vugular type porosity, no show gas bubbles.

TOWANDA SECTION

- 1965-1978' Dolomite; gray, finely crystalline, poor visible porosity, plus gray dolomitic limestone and gray white chert, chalky luster. (77 unit kick)
- 1981-1990' Dolomite; gray, fine crystalline, fair vugular type and intercrystalline porosity, trace gas bubbles.

1990-1996' Dolomite; gray and tan, finely crystalline, few medium crystalline, fair to good intercrystalline and vugular type porosity, trace gas bubbles. (95 unit kick).

Drill Stem Test #2 1968-1996'

Times: 20-30-60-90

Blow: Strong; gas to surface in 9 minutes, gas gauged as follows:

Initial Flow	
9 minutes	gas to surface
10 minutes	150,700 cfgpd
20 minutes	173,300 cfgpd
Final Flow	
10 minutes	173,300 cfgpd
20 minutes	90,600 cfgpd
30 minutes	94,000 cfgpd
40 minutes	94,000 cfgpd
50 minutes	94,000 cfgpd
60 minutes	94,000 cfgpd

Recovery: 90' gas cut mud

Pressures:	ISIP	591	psi
	FSIP	588	psi
	IFP	32-55	psi
	FFP	27-57	psi
	HSH	981-947	psi

FT RILEY SECTION

2003-2010' Limestone; white and gray, chalky in part, poor porosity, plus trace white and gray chert.

2010-2024' Limestone; as above.

2024-2046' Limestone; tan, gray and white, fine to medium crystalline, few granular, fossiliferous in part, finely oocastic, fair oocastic and fossil cast to vugular type porosity, show of gas bubbles (54 unit kick).

Drill Stem Test #3 2019-2046'

Times: 20-30-20-30

Blow: Weak

Recovery: 60' mud

Pressures:	ISIP	539	psi
	FSIP	511	psi
	IFP	19-34	psi
	FFP	35-47	psi
	HSH	1001-971	psi

FLORENCE SECTION

- 2055-2064' Limestone; tan, cream to gray, mottled, fossiliferous, no shows.
- 2064-2075' Limestone; tan and buff, cream, highly fossiliferous, good intercrystalline to fossil cast porosity, plus white chalky.
- 2075-2085' Limestone; as above, plus white and gray, fossiliferous chert and dolomite and dolomitic limestone, tan, brown, good porosity.
- 2085-2092' Limestone; dolomite as above, plus abundant loose fossil fragments.

WREFORD SECTION

- 2118-2124' Limestone; white, fossiliferous/oolitic, chalky, poorly developed porosity, trace gas bubbles (34 unit kick).
- 2136-2143' Limestone; tan to gray, finely crystalline, granular, slightly cherty (24 unit kick).
- 2152-2158' Limestone; tan, fine to medium crystalline, slightly cherty (24 unit kick),
- 2161-2168' Limestone; tan and white, cherty in part, poor visible porosity, trace golden light yellow fluorescence. (25 unit kick).

Drill Stem Test #4 2120-2166'

Times: 25-35-60-90

Blow: Strong; (O.B.B. 4 minutes)

Recovery: 240' gas in pipe
180' gas cut mud

Pressures: ISIP 521 psi
FSIP 557 psi
IFP 27-46 psi
FFP 52-93 psi
HSH 1086-1052 psi

COTTONWOOD SECTION

- 2334-2348' Limestone; tan, brown, finely crystalline, slightly cherty, poorly developed porosity, (52 unit kick).

NEVA SECTION

- 2375-2388' Limestone; gray, chalky, increasing porosity with depth, no shows.

RED EAGLE SECTION

- 2361-2374' Limestone; gray to tan, fine to medium crystalline, scattered porosity, sparry calcite, replacement in some porosity, plus white chalk.

INDIAN CAVE SECTION

2600-2606' Sand; very fine grained, white to grayish green, calcareous, poorly developed, (8 unit kick).

UPPER TARKIO SAND SECTION (Langdon Sand)

2676-2684' Sand; gray, very fine grained, micaceous, sub rounded to sub angular, friable in part, scattered intergranular porosity, trace gas bubbles (55 unit kick). Remarks – losing fluid (total lost 105 bbls).

MIDDLE TARKIO SAND SECTION

2718-2727' Sand; very fine grained, micaceous, shaley, poorly developed, no shows.

LOWER TAKIO SAND SECTION (Willard Sand)

2780-2788' Sand; gray, very fine grained, micaceous, calcareous in part, friable, fair porosity, trace gas bubbles, no stain, no odor (20 unit gas increase).

BERN SECTION

2880-2898' Limestone; gray and white, slightly fossiliferous, highly chalky, trace iron pyrite, no kick.

HOWARD SECTION

2955-2964' Limestone; gray to dark gray, chalky increasingly cherty, poor visible porosity, no shows.

2971-2975' Limestone; white, fine to medium crystalline, chalky, poorly developed porosity, no shows.

2980-2988' Limestone; tan, fine to medium crystalline, few granular, chalky, trace gas bubbles, no stain, spotty bright yellow fluorescence and faint odor in fresh samples.

3001-3008' Limestone; tan, gray, fossiliferous, poor visible porosity, dense, no shows.

Rotary Total Depth 3020 (-1096)

Log Total Depth 3020 (-1096)

Recommendations:

On the basis of the favorable Drill Stem Tests and positive Log analysis, it was recommended by all parties involved to set and cement 4 1/2" production casing. The following zones should be tested in the Russell 'A' #1

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|----------------------|-----------|
| 1. Bern | 2880-2892 |
| 2. Upper Tarkio Sand | 2676-2683 |
| 3. Wreford | 2161-2165 |
| 4. Florence | 2065-2074 |
| 5. Towanda | 1981-1987 |
| 6. Towanda | 1967-1972 |
| 7. Winfield | 1912-1916 |
| 8. Winfield | 1904-1910 |
| 9. Krider | 1866-1876 |
| 10. Upper Krider | 1847-1862 |

Respectfully submitted;

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Petroleum Geologist

