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15-159-22404

2-18-7W

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H19-0

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Coronado Oil & Gas Inc.  
White 'A' #2  
SW-SE-NW; Section 2-18s-7w  
Rice County, Kansas  
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JAN 14 2003

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KCC WICHITA

**4 1/2" Production Casing Set**

- Contractor:** Duke Drilling Company (Rig #8)
- Commenced:** October 14, 2002
- Completed:** October 21, 2002
- Elevation:** 1704' K.B.; 1702' D.F.; 1696' G. L.
- Casing Program:** Surface; 8 5/8" @ 235'  
Production; 4 1/2" @ 3319'
- Samples:** Samples saved and examined 2400' to the Rotary Total Depth.
- Drilling Time:** One (1) foot drilling time recorded and kept 2400' 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 Testers.
- Electric Log:** By Eli Wireline Services; Dual Induction Log and Compensated Density Neutron Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Heebner	2614	-910
Toronto	2641	-937
Douglas	2653	-949
Brown Lime	2732	-1028
Lansing	2755	-1051
Odessa 'M' Zone	3104	-1400
Base Kansas City	3129	-1425
Marmaton	3136	-1432
1 <sup>st</sup> Conglomerate Sand	3213	-1509
2 <sup>nd</sup> Conglomerate Sand	3224	-1520
Kinderhook Shale	3231	-1527
Misener Sand	3299	-1595
Rotary Total Depth	3320	-1616
Log Total Depth	3320	-1616

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

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

**TOPEKA SECTION**

- 2525-2532' Limestone; gray to tan and white, fossiliferous, chalky, no shows.
- 2534-2550' Limestone; as above, increasing sub oocastic, chalky, no shows.
- 2571-2586' Limestone; gray and white, oocastic, scattered oocastic porosity,

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few fine to medium crystalline, no shows.

2598-2610' Limestone; gray to white, fine to medium crystalline, fair porosity, plus gray boney chert.

**TORONTO SECTION**

2641-2652' Limestone; gray to dark gray and brown, highly fossiliferous, dense.

**DOUGLAS SECTION**

2656-2694' Sand; gray and grayish green, very fine to medium grained, sub angular to sub rounded, friable, fair to good intergranular porosity, calcareous, micaceous, few shaley, no shows.

**LANSING SECTION**

2755-2766' Limestone; tan to white, fine to medium crystalline, chalky plus gray and tan chert.

2781-2800' Limestone; tan, oocastic, good oocastic porosity (barren).

2805-2815' Limestone; tan, sub oocastic, chalky, poorly developed porosity, no shows.

2821-2832' Limestone; tan, fossiliferous, sub oocastic, scattered fossil cast to oocastic type porosity, no shows.

2844-2858' Limestone; gray and white to tan, fossiliferous, oocastic, oolitic, fair to good porosity, (barren).

2866-2890' Limestone; gray and white and tan, finely oocastic, oolitic, good oocastic porosity, no shows.

2890-2910' Limestone; as above, increasingly oocastic, good oocastic porosity, trace white chalk.

2910-2929' Limestone; as above.

2964-2970' Limestone; gray and white, fossiliferous, oocastic, poorly developed porosity, chalky, no shows.

2976-2984' Limestone; tan, fossiliferous, few oocastic, cherty in part, plus trace gray chert.

3005-3018' Limestone; gray and tan, oocastic, fair oocastic porosity, no shows.

3038-3060' Limestone; white to gray, slightly fossiliferous, chalky, no shows.

3080-3090' Limestone; white and tan, oolitic, oocastic, poorly developed porosity.

3104-3111' Limestone; gray and white, finely crystalline, slightly fossiliferous, scattered porosity, spotty stain, trace of free oil and faint odor in fresh samples.

Drill Stem Test #1 3091-3120'

Times: 30-45-30-60

Blow: Weak

Recovery: 10' mud, oil specked

Pressures:	ISIP	742	psi
	FSIP	222	psi
	IFP	58-58	psi
	FFP	70-70	psi
	HSH	1662-1626	psi

*AK*

MARMATON SECTION

- 3136-3150' Limestone; gray and tan, fine and medium crystalline, few fossiliferous, maroon red tinted.
- 3150-3170' Limestone; as above, shaley.
- 3172-3185' Limestone; gray and white to yellow, slightly fossiliferous, chalky.

CONGLOMERATE SECTION

- 3213-3221' Sand; white to clear, quartzitic, sub rounded to sub angular, shaley, plus trace white, highly calcareous sand, no shows.
- 3224-3228' Sand; clear, quartzitic, medium grained, sub rounded, friable, fair intergranular porosity, spotty stain, show of free oil, plus chert, tan and clear, weathered, spotty stain, trace of free oil.

Drill Stem Test #2 3168-3228'

Times: 45-45-45-45

Blow: Weak to strong

Recovery: 180' gas in pipe  
70' oil cut gassy mud  
(16% gas, 7% oil, 77% mud)

Pressures:	ISIP	397	psi
	FSIP	210	psi
	IFP	47-47	psi
	FFP	70-70	psi
	HSH	1666-1626	psi

- 3228-3231' Sand; as above, increased oil show in sand, plus trace white fresh chert.

Drill Stem Test #3 misrun

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Drill Stem Test # ~~4~~ 3168-3243

Times: 30-30-45-45

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Blow: Weak to strong

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Recovery: 240' gas in pipe  
110' oil cut gassy mud  
(5% gas, 3% oil, 92% mud)

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Pressures: ISIP 534 psi  
FSIP 742 psi  
IFP 105-105 psi  
FFP 117-117 psi  
HSH 1656-1615 psi

**MISENER SECTION**

3299-3310' Sand; clear to tan and white, very fine to medium grained, sub angular, few sub rounded, fair to good sorting, scattered porosity, trace stain, trace of free oil, and questionable odor (95% barren).

3310-3320' Sand; as above, large quartz grains, abundant iron pyrite inclusions, trace dull gray stain, weak show of free oil and questionable odor in fresh samples.

Rotary Total Depth 3320 (-1616)  
Log Total Depth 3320 (-1616)

**Recommendations:**

On the basis of the favorable Drill Stem Tests and the positive log analysis, it was recommended by all parties involved to set and cement 4 1/2" production casing at 3319' (one foot off bottom) and the following zones be tested in the White 'A' #2.

1. Conglomerate 3224-3231 perforate
2. Lansing 'M' Zone 3104-3111 perforate

Respectfully submitted;

*James C. Musgrove*  
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 Petroleum Geologist