Coronado Oil & Gas Inc. Janssen 'A' #8 SW-SE-SW; Section 2-18s-7w Rice County, Kansas Page No. 1 KCC WICHITA

KCC SEP 0 6 2002 **7:01:66:8**0 1-1' 1: 6: 2003 1: 7:0:110

Soulider (12)

CONFIDENTIAL

# 4 ½" Production Casing Set

Contractor:

Duke Drilling Company (Rig #2)

Commenced:

May 21, 2002

Completed:

May 27, 2002

Elevation:

1694' K.B.; 1692' D.F.; 1686' G. L.

Casing Program:

Surface; 8 5/8" @ 214' Production; 4 1/2" @ 3216'

Samples:

Samples saved and examined 2300' to the Rotary Total Depth.

**Drilling Time:** 

One (1) foot drilling time recorded and kept 2300' to the Rotary

Total Depth.

Measurements:

All depths measured from the Kelly Bushing.

Formation Testing: There were three (3) Drill Stem Tests ran by Trilobite Testers.

Electric Log:

By Eli Wireline Services; Dual Induction Log and Compensated

Density/Neutron Log.

<u>Formation</u>	Log Depth	Sub-Sea Datum
Heebner	2569	-875
Toronto	2589	-895
Douglas	2609	-915
Brown Lime	2687	-993
Lansing	2725	-1031
Odessa 'M' Zone	3059	-1365
Base Kansas City	3086	-1392
Marmaton	3091	-1397
Cherokee	3145	-1451
Conglomerate Sand (6')	3162	-1468
Conglomerate Chert (11')	3176	-1482
Kinderhook Shale	3184	-1490
Misener Sand	3213	-1519
Rotary Total Depth	3220	-1526
Log Total Depth	3220	-1526

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

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

#### **TOPEKA SECTION**

2502-2530'

Limestone; gray to tan, oocastic, fair to good oocastic porosity,

chalky in part, questionable gas bubbles, no stain, no show of

free oil or odor in fresh samples.

2554-2563'

Limestone; tan to gray, slightly cherty to gray to white chert no

### **TORONTO SECTION**

2596-2606'

Limestone; gray, highly dolomitic, plus dolomite, gray, sucrosic,

poorly developed porosity, no shows.

## **DOUGLAS SECTION**

2611-2620'

Sand; gray to light gray, very fine grained, some medium grained, sub rounded to sub angular, fair sorting, friable, fair intergrapher persoits, as shown

intergranular porosity, no shows.

2623-2650'

Sand; as above, fair to good porosity, no shows.

#### LANSING SECTION

2725-2731'

Limestone; cream to gray to brown, finely crystalline, fossiliferous, poorly developed porosity, no shows.

2736-2755'

Limestone; tan to gray, oocastic, fair to good oocastic porosity,

(barren).

2780-2787'

Limestone; brown to tan, few fossiliferous, sub oocastic, poor

visible porosity, no shows.

2793-2800'

Limestone; gray to white, fossiliferous, oolitic, fair fossil cast to

oocastic type porosity, no shows.

2806-2813'

Limestone; gray to white, fossiliferous, oolitic, fair fossil cast to

vuggy type porosity, no shows.

2821-2890'

Limestone; gray to tan, few oolitic, oocastic, good oocastic

porosity, (barren).

2923-2929'

Limestone; tan to gray, few fossiliferous, chalky, poorly

developed porosity, no shows.

2934-2946'

Limestone; gray to tan, fossiliferous, increasingly cherty, poor

visible porosity, no shows.

2956-2976'

Limestone; white to cream, slightly fossiliferous, chalky, plus

trace white chalk, no shows.

2999-3010'

Limestone; gray to tan, slightly oolitic, chalky increasingly cherty

with depth, no shows.

3036-3042'

Limestone; gray to tan, finely crystalline, chalky, poor visible

porosity, no shows.

### **ODESSA 'M' SECTION**

3059-3069'

Limestone; tan to white and brown, finely crystalline in part, fossiliferous, scattered fair pinpoint to fossil cast (rare) porosity, dark brown stain and saturation, show of free oil and fair odor in fresh samples. Sparry calcite infill in some porosity, good streaming cut, fair bright yellow fluorescence.

**Drill Stem Test #1** 

3053-3072'

Times:

30-45-60-60

Blow:

Weak

NOV U 6 2003

i-late.

Confidence

85' gas in pipe Recovery:

35' heavy oil cu mud

(25% oil, 75% mud)

Pressures: ISIP

193 psi **FSIP** 197 psi, **IFP** 14-44 psi **FFP** 18-26 psi 1481-1471 HSH psi

**MARMATON SECTION** 

3091-3096'

Limestone: gray to white, chalky, few cherty, poor trace black stain, no show of free oil or odor in fresh samples.

**CHEROKEE/CONGLOMERATE SECTION** 

3162-3172'

Sand; very fine grained, quartzitic, sub rounded, sub angular, friable, trace spotty stain, trace of free faint vellow fluorescence. poor cut, questionable odor in fresh samples, plus trace white and red boney to opaque chert.

3176-3181

· Chert; red and orange, boney, fresh, plus trace sand, very fine grained, friable, scattered porosity, trace poor stain and abundant loose unconsolidated quartz grains, questionable edge staining.

**Drill Stem Test #2** 

3146-3191'

Times:

30-45-45-45

Blow:

Weak to good

Recovery:

190' gas in pipe

50' slightly oil cut mud (10% gas, 5% oil, 85% mud)

Pressures: ISIP

247 psi

**FSIP** 192 psi **IFP** 16-23 psi **FFP** 24-33 psi HSH 1593-1545 psi

MISENER SAND

3213-3220'

Sand; clear to glassy, very fine to medium grained, sub rounded few sub angular, quartzitic, friable, good intergranular porosity, fair to good stain, good show of free oil and faint odor in fresh samples. Good bright yellow fluorescence and good streaming cut.

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Drill Stem Test #3 3213-3220'

Times: 30-30-45-45

Blow: Weak

Recovery: 100' gas in pipe

20' oil specked mud (good show of free oil on top

of tool).

Pressures: ISIP 504 psi

FSIP 643 psi IFP 14-15 psi FFP 14-20 psi HSH 1604-1591 psi

# Rotary Total Depth 3220 (-1526)

### Recommendations:

On the basis of the favorable structural position and Drill Stem Tests, it was recommended by all parties involved to set and cement 4 ½" production casing at 3216' (four foot off bottom) and the following zones be tested in the Janssen 'A' #8.

1. Misener Sand	"open hole"	completion methods
2. Conglomerate	3174-3178	
3. Conglomerate	3170-3172	perforate
4. Conglomerate	3162-3168	perforate ·
5. Odessa 'M' Zone	3062-3067'	perforate

Respectfully submitted;

James C. Musgrove Petroleum Geologist