

11-12-22w

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Castelli Exploration Inc.  
Pearson-Brown #1-11 *OWW*  
C-SW-NW (1980' FNL & 660' FWL) Section 11-12s-22w  
Trego County, Kansas  
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15-195-22531-0001

**Dry and Abandoned**

**Contractor:** Murfin Drilling Company (Rig #24)

**Commenced:** February 25, 2008

**Completed:** March 2, 2008

**Elevation:** 2359' K.B.; 2357' D.F.; 2354' G.L.

**Casing Program:** Surface; 8 5/8" @ 210'  
Production; none.

**Samples:** Samples saved and examined 3300' to the Rotary Total Depth.

**Drilling Time:** One (1) foot drilling time recorded and kept 3300' to the Rotary Total Depth.

**Measurements:** All depths measured from the Kelly Bushing.

**Electric Log:** By Superior Well Services; Dual Induction, Compensated Density Neutron Log and Micro.

**Drill Stem Tests:** There was one (1) Drill Stem Test ran by Trilobite Testing Co.

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<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1799	+560
Base Anhydrite	1846	+513
Topeka	3401	-1042
Heebner	3618	-1259
Toronto	3640	-1281
Lansing	3653	-1294
Base Kansas City	3899	-1540
Marmaton	3977	-1618
Conglomerate	4017	-1658
Arbuckle	4081	-1722
Rotary Total Depth	4100	-1741
Log Total Depth	4104	-1745

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

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

**TOPEKA SECTION**

3561-3569' Limestone; cream, white, chalky, poorly developed porosity, golden brown stain, show of free oil and odor when samples are broken.

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**TORONTO SECTION**

3640-3650' Limestone; cream, gray, finely crystalline, chalky, trace brown spotty stain, trace of free oil and faint odor in fresh samples.

**LANSING SECTION**

3653-3664' Limestone; cream, white, oolitic, fair porosity, golden brown stain, trace of free oil and faint to fair odor in fresh samples.

3664-3680' Limestone; cream, light gray, finely crystalline, chalky in part, poor brown stain, no show of free oil and trace white and gray chert.

3694-3698' Limestone; gray, cream, finely crystalline, chalky, spotty brown edge staining, no show of free oil and no odor in fresh samples, poor visible porosity.

3736-3741' Limestone; cream, white, finely crystalline, chalky in part, no visible porosity, no shows.

3751-3766' Limestone; cream, gray, finely crystalline, dense, slightly cherty, plus white fossiliferous, boney chert.

3796-3809' Limestone; gray, finely crystalline, chalky in part, no visible porosity.

3818-3830' Limestone; as above, increasingly cherty.

3840-3852' Limestone; gray, white, finely crystalline, poor visible porosity (dense)/

3856-3870' Limestone; tan, finely crystalline, slightly cherty, fair porosity, brown and dark brown stain, trace of free oil and faint odor in fresh samples.

3885-3896' Limestone; white, chalky, brown and golden brown stain, poorly developed porosity, no shows.

**MARMATON SECTION**

3977-3984' Limestone; tan, cream, fine and medium crystalline, cherty in part, dense, trace poor brown stain, show of free oil and faint odor in fresh samples.

3984-4010' Limestone; as above, plus chert, tan, slightly weathered brown stain, trace of free oil and faint odor in fresh samples.

86.02

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Drill Stem Test #1 3978-4010'

Times: 30-30-45-45  
Blow: Weak  
Recovery: 70' gas in pipe  
30' clean gassy oil  
30' mud cut oil  
(60% oil, 40% mud)

Pressures: ISIP 563 psi  
FSIP 459 psi  
IFP 16-28 psi  
FFP 29-89 psi  
HSH 1936-1926 psi

CONGLOMERATE SECTION

4016-4081' Varied colored chert with trace sand, clear, grayish green, sub angular, friable, fair intergranular porosity, no shows, all in matrix of varied colored shale.

ARBUCKLE SECTION

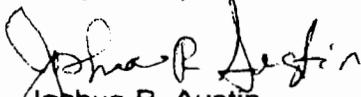
4081-4090' Dolomite; gray, finely crystalline, cherty in part, dense, no shows.  
4090-4104' Dolomite; as above, no shows.

Rotary Total Depth 4100 (-1741)  
Log Total Depth 4104 (-1745)

**Recommendations:**

On the basis of the negative Log Analysis, and there being no other zones worthy of any further testing, it was recommended by all parties involved that the Pearson-Brown #1-11 be plugged and abandoned at the Rotary Total Depth 4104.

Respectfully submitted;

  
Joshua R. Austin  
Petroleum Geologist



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