

JAMES C. MUSGROVE

Petroleum Geologist

2021 Forest

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Hallwood Petroleum Corporation
Desbien #11
SW-NE-NW; Section 12-10s-20w
Rooks County, Kansas
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DRY and ABANDONED

CONTRACTOR: Allen Drilling Company (Rig #3)

COMMENCED: 10-13-94

COMPLETED: 10-19-94

ELEVATIONS: 2227' K.B.; 2224' D.F.; 2222' G.L.

CASING PROGRAM: Surface - 8 5/8" at 242'
Production - None

SAMPLES: Samples saved and examined 2900' to the Rotary Total Depth.

DRILLING TIME: One (1) foot drilling time recorded and kept 2900' to the Rotary Total Depth.

MEASUREMENTS: All depths measured from the Kelly Bushing.

ELECTRIC LOG: By Halliburton Logging Services; Dual Induction Laterolog, Compensated Density Dual Spaced Neutron Log, Micro Log, and Computer Analyzed Log.

FORMATION TESTING: There were two (2) drill stem tests ran by Trilobite Testing, L.L.C.

<u>FORMATION</u>	<u>ELECTRIC LOG DEPTH</u>	<u>SUB-SEA DATUM</u>
Anhydrite	1668	+ 559
Howard	3171	- 944
Topeka	3236	-1009
Heebner	3445	-1218
Toronto	3465	-1238
Lansing	3484	-1257
Base Kansas City	3699	-1472
Marmaton	3725	-1498
Conglomerate	3728	-1501
Conglomerate Chert	3786	-1559
Arbuckle	3861	-1634
Rotary Total Depth	3915	-1688
Log Total Depth	3916	-1689

(All tops and zones corrected to Electric Log Measurements)

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

TOPEKA SECTION

- | | |
|------------|--|
| 3236-3243' | Limestone; gray to tan, chalky, few dolomitic, scattered vuggy type porosity, no shows. |
| 3263-3268' | Limestone; white to gray, very fine grained to finely crystalline, scattered intercrystalline to pin point porosity, spotty stain, trace of free oil and no odor in fresh samples. |
| 3287-3294' | Limestone; tan, sub-oocastic, scattered porosity, trace brown stain, trace of free oil and no odor in fresh samples. |
| 3311-3315' | Limestone; cream to tan, fossiliferous, poor visible porosity, no shows. |
| 3322-3326' | Limestone; gray, fossiliferous, cherty, plus trace of gray chert. |
| 3361-3369' | Limestone; tan, chalky increasingly cherty, poor porosity, no shows |
| 3391-3400' | Limestone; tan, sucrosic, dolomitic, scattered porosity, fair golden brown stain, trace of free, faint odor in fresh samples. |
| 3403-3411' | Limestone; gray, fossiliferous, chalky, dark brown to black stain, trace of free oil and faint odor in fresh samples. |
| 3417-3423' | Limestone; gray to tan, cherty (dense), no shows. |

TORONTO SECTION

- | | |
|------------|---|
| 3465-3471' | Limestone; gray, cream, chalky, few fossiliferous, sparry calcite replacement in some porosity, no shows. |
|------------|---|

LANSING SECTION

- | | |
|------------|--|
| 3484-3490' | Limestone; white to tan, fossiliferous, cherty, few chalky (dense), trace white to gray fossiliferous chert. |
| 3493-3498' | Limestone; chert, as above. |
| 3518-3526' | Limestone; cream to white, fossiliferous, chalky, poor stain, poor show of free oil and no odor in fresh samples. |
| 3538-3546' | Limestone; white, cream, fine to medium crystalline, chalky in part, few fossiliferous, poor visible porosity, questionable stain, no show of free oil or odor in fresh samples, trace of white chert. |

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3566-3570' Limestone; white, gray, finely crystalline, scattered pin point to intercrystalline porosity, brown to black stain, show of free oil and faint odor in fresh samples.

DRILL STEM TEST - #1 3507-3570'

Times: 45-45-60-60

Blow: Weak

**Recovery: 60' gas in pipe
65' mud (oil specks in tool)**

**Pressures: ISIP 415 psi
FSIP 423 psi
IFP 30-37 psi
FFP 37-52 psi
HSH 1765-1727 psi**

3578-3585' Limestone; white to gray, finely crystalline, scattered pin point to intercrystalline porosity, poor stain, trace of free oil and no odor in fresh samples.

3592-3603' Limestone; as above, poorly developed porosity, trace white chert.

3616-3622' Limestone; tan to gray, fine to medium crystalline, few granular, poor visible porosity, few with scattered intercrystalline to pin point porosity, poor stain, trace of free oil and no odor in fresh samples.

3638-3646' Limestone; gray, oolitic, slightly cherty, poor visible porosity, brown to dark brown stain, show of free oil and faint odor in fresh samples.

3651-3660' Limestone; gray, white, finely crystalline, chalky, poorly developed intercrystalline to pin point porosity, fair stain and saturation, show of free oil and faint odor in fresh samples.

3692-3698' Limestone; gray to tan, fossiliferous, chalky in part, golden brown stain, trace of free oil and faint odor in fresh samples.

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DRILL STEM TEST - #2 3620-3700'

Times: 30-30-30-30

Blow: Weak

**Recovery: 10' very slightly oil cut mud
(2% oil, 98% mud)**

Pressures:	ISIP	346	psi
	FSIP	270	psi
	IFP	30-30	psi
	FFP	36-36	psi
	HSI	1796-1742	psi

CONGLOMERATE SECTION

3750-3770'	Varied colored shale.
3770-3785'	Shale; as above, abundant gray to pink soft clayey shale, trace dolomitic "dirty" shale.
3786-3790'	Chert; white to tan, fossiliferous, few weathered, black stain, no show of free oil or odor in fresh samples.
3790-3800'	Chert; white to yellow, fair vuggy type porosity, black stain, trace yellow granular chert, no shows.
3800-3810'	Chert; as above, no shows.
3810-3823'	Chert; white to gray to clear to amber, boney to opaque.
3823-3830'	Shale; purplish gray, waxy.
3830-3848'	Varied colored shale.
3848-3861'	Chert; white to gray, boney, no shows.

ARBUCKLE SECTION

3861-3868'	Dolomite; cream to gray, fine to medium crystalline, poor porosity, no shows.
3868-3878'	Dolomite; gray, medium crystalline, fair intercrystalline porosity, trace pyrite inclusion, no shows.
3878-3884'	Dolomite; tan, finely crystalline, cherty, slug tan oolitic opaque chert, no shows.

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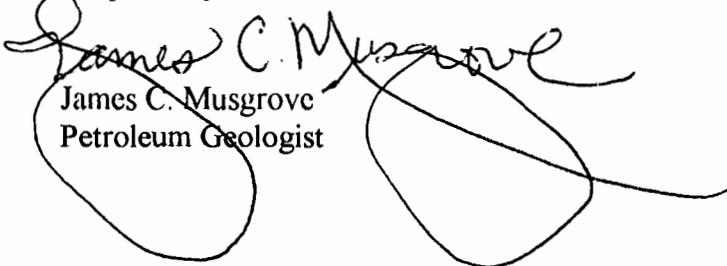
3884-3898'	Dolomite; tan to pink to gray, finely crystalline, poor visible porosity, plus trace gray to tan chert, no shows.
3898-3904'	Dolomite; as above, fair porosity, no shows.
3904-3910'	Dolomite; gray, finely crystalline, sandy, poor visible porosity, no shows.
3910-3915'	Dolomite; as above.

ROTARY TOTAL DEPTH	3915'	(-1688)
LOG TOTAL DEPTH	3916'	(-1689)

RECOMMENDATIONS

On the basis of the low structural position and there being no other zones worthy of any further testing, it was recommended by all parties involved to plug and abandon the Desbien #11 at the Rotary Total Depth 3915 (-1688).

Respectfully submitted,


James C. Musgrove
Petroleum Geologist