

NE SW SW

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Re: The Maurice L. Brown Company  
No. 5 Callison  
NE SW SW Sec.35-T9S-R22W  
Graham County, Kansas

ELEVATIONS: 2338 Ground Level  
2343 Kelly Bushing  
CONTRACTOR: Abercrombie Drilling, Inc, - Rig No. 7  
COMMENCED: September 6, 1979  
COMPLETED: September 14, 1979  
ROTARY TOTAL DEPTH: 3845'  
LOGGED TOTAL DEPTH: 3820'  
SURFACE CASING: 8 5/8" Cemented @ 248' w/190 sacks  
PRODUCTION CASING: 5 1/2" Cemented @ 3840' w/600 sacks  
LOGS: Gamma Ray, Neutron, Laterlog, BHC Accoustilog

DAILY PENETRATION RATE:

Setpember 6, 1979	Spud - 2:00 P.M.
" 7, 1979	Under Surface Casing - 12:45 P.M.
" 8, 1979	1830 ft. - 7:00 A.M.
" 9, 1979	2618 ft. - "
" 10, 1979	3250 ft. - "
" 11, 1979	3620 ft. - DST No. 1 - 7:00 A.M.
" 12, 1979	3645 ft. - 7:00 A.M.
" 13, 1979	3765 ft. - "
" 14, 1979	3820 ft. - Logging - 7:00 A.M.
" 15, 1979	3845 ft. - Drill rat hole & run csg.

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REMARKS:

All measurements are from Kelly Bushing (2343 ft.). Five feet above ground level.

One foot drilling time was recorded and ten foot samples were caught from 3300' to the Rotary Total Depth of 3845'.

Four drill stem tests were run over the Lansing-Kansas City Lime Zones by Halliburton Services.

Mud program by Magcobar.

FORMATION:

The following formation tops were determined by drill time and sample analysis, and logs on the well:

<u>Formation</u>	<u>Sample</u>	<u>Log</u>	<u>Datum</u>
Stone Coral	1816	1817	+526
Heebner	3536	3536	-1193
Lansing "A"	3574	3573	-1230
" "B"	3587	3587	-1244
" "C"	3614	3613	-1270
" "D"	3629	3629	-1286
" "E"	3650	3648	-1305
" "F"	3660	3658	-1315
" "G"	3672	3671	-1328
" "H"	3712	3710	-1367
" "I"	3735	3734	-1391
" "J"	3751	3750	-1407
" "K"	3772	3770	-1427
" "L"	3788	3790	-1447
Base Kansas City	3798	3799	-1456
RTD	3845		-1502

RTD - 3845  
STAB CUMULATIVE LOGGING

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DRILL STEM TESTS:

The following is a sample description of the intervals covered by the Drill Stem Tests:

Lansing "C" Zone: 3614 -1271

3614-3620 ft. Cream-gray, fine crystalline, fossiliferous dolomitic limestone, pin point crystalline and fossil cast porosity; slight show of free oil spotted stain in dry sample.

D.S.T. No. 1  
3602 - 3620 ft. Fair to good blow throughout both flow periods. Recovered 350' salt water.

I.H.P. = 1814#  
I.F.P. = 31# - 105# 60 Min.  
I.S.I.P. = 554# " "  
F.F.P. = 126# - 178# 90 Min.  
F.S.I.P. = 544# " "  
S.H.P. = 1741#  
Temperature = 109 degrees F.

Lansing "D" Zone: 3629 -1286

3629 - 3637 ft. Cream-gray, fine crystalline fossiliferous limestone, slightly cherty, crystalline and fossil cast porosity, very slight show of free oil, scattered spotted stain in dry sample.

D.S.T. No. 2  
3630 - 3640 ft. Very weak blow on 1st flow  
No blow on 2nd flow  
Recovered 15' watery mud w/few spots oil.

I.H.P. = 1856#  
I.F.P. = 42# - 31# 60 Min.  
I.S.I.P. = 730# " "  
F.F.P. = 42# - 31# " "  
F.S.I.P. = 720# 90 Min.  
F.H.P. = 1730#  
Temperature = 106 degrees F.

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Lansing "H" Zone: 3712 -1369

3712 - 3717 ft. Gray fine crystalline, fossiliferous limestone, crystalline and fossil cast porosity, odor on fresh break, very slight show of free oil, few fair to spotted stain.

D.S.T. No. 3  
3698 - 3720 ft. Strong blow off bottom of 5 gal. bucket in 8 minutes.  
Recovered 5' free oil & 960' salt water

I.H.P. = 1929#  
I.F.P. = 63# - 324# 60 Min.  
I.S.I.P. = 689# " "  
F.F.P. = 356# - 471# " "  
F.S.I.P. = 689# 90 Min.  
F.H.P. = 1793#  
Temperature = 110 degrees

Lansing "I" Zone: 3735 -1392

3735 - 3742 ft. Gray-buff, dense limestone, traces of vein or fracture porosity w/dead black stain. No odor, no show of free oil.

Lansing "J" Zone 3751 -1408

3751 - 3756 ft. Buff, mostly dense, some fine crystalline limestone, trace dead stain in poor crystalline porosity. No odor, no show of free oil.

Lansing "K" Zone 3772 -1429

3772 - 3777 ft. Gray, fine granular crystalline dolomitic limestone, crystalline and pin point vugular porosity, show of free oil, fair to spotted stain. No odor.

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D.S.T. No. 4  
3737 - 3785 ft.

Weak blow throughout test. Recovered  
90' watery mud w/ spots of oil.

I.H.P. = 1960#  
I.F.P. = 63# - 52# 60 Min.  
I.S.I.P. = 876# " "  
F.F.P. = 73# - 73# 90 Min.  
F.S.I.P. = 855# " "  
F.H.P. = 1824#  
Temperature = 105 degrees F

RECOMMENDATIONS AND CONCLUSIONS:

The following is a structural comparison of the No. 5 Callison to the  
No. 2, 3 & 4 wells:

<u>Formation</u>	<u>Callison No.5</u> NE SW SW <u>Sec.35-9S-22W</u>	<u>Callison No.2</u> NW SE SW <u>Sec.35-9S-22W</u>	<u>Callison No.3</u> SE NW SW <u>Sec.35-9S-22W</u>	<u>Callison No.4</u> NW SW SW <u>Sec.35-9S-22W</u>
	<u>E.Log Tops</u>	<u>E.Log Tops</u>	<u>E.Log Tops</u>	<u>E.Log Tops</u>
Anhydrite	+526			
Heebner	-1193	-1189	-1188	-1197
Lansing "A"	-1230	-1227	-1226	-1234
" "B"	-1244	-1239	-1237	-1249
" "C"	-1270	-1267	-1265	-1276
" "D"	-1286	-1282	-1281	-1292
" "E"	-1305	-1297	-1300	-1310
" "F"	-1315	-1312	-1311	-1321
" "G"	-1328	-1324	-1323	-1334
" "H"	-1367	-1364	-1363	-1374
" "I"	-1391	-1388	-1387	-1399
" "J"	-1407	-1403	-1403	-1415
" "K"	-1427	-1423	-1424	-1436
" "L"	-1447	-	-	-
Base Kansas City	-1456	-	-	-

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At the depth of 3820', Dresser Atlas ran the following logs: Gamma Ray, Neutron, Laterlog and BHC Acoustilog. The well was then deepened to 3845'.

From these logs, drill stem test data and sample evaluations, it was decided to cement 5 1/2" casing at 3840', to further evaluate the Lansing-Kansas City zones.

A geological drilling time and sample description log is included with this report.

Respectfully submitted,

*Harlan B. Dixon*

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Enclosures

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