

3. Next at 235°F, the pressure on the contents of the windowed cell was lowered from the dew point pressure of 3950 psig by slow bleeding of a portion of the gas phase in simulating the reservoir depletion process. Measurements of equilibrium liquid and gas phase volumes were made at several pressures during this test. The results of these investigations are given in Table III.

4. A portion of the gas phase, remaining at 235°F and 1490 psig in the pressure depletion test, was analyzed and the composition obtained is shown in Table IV.

Component	Composition Vol. Percent	Molecular Weight	Density lb/cu ft at 32°F
Hydrogen Sulfide	0.11		
Carbon Dioxide	3.00		
Nitrogen	0.28		
Hydrocarbon	96.61		
Methane	83.10	16	0.424
Ethane	10.10	30	0.883
Propane	2.10	44	1.522
i-Butane	0.37	58	2.481
n-Butane	0.71	58	2.481
Pentane	0.17	72	3.026
Hexane	0.03	86	3.571
Heptane	0.03	100	4.116
Octane	0.02	114	4.661
Nonane	0.01	128	5.206
Decane	0.01	142	5.751
Undecane	0.01	156	6.296
Dodecane	0.01	170	6.841
Tridecane	0.01	184	7.386
Tetradecane	0.01	198	7.931
Pentadecane	0.01	212	8.476
Hexadecane	0.01	226	9.021
Heptadecane	0.01	240	9.566
Octadecane	0.01	254	10.111
Nonadecane	0.01	268	10.656
Eicosane	0.01	282	11.201
Heneicosane	0.01	296	11.746
Docosane	0.01	310	12.291
Tricosane	0.01	324	12.836
Tetracosane	0.01	338	13.381
Pentacosane	0.01	352	13.926
Hexacosane	0.01	366	14.471
Heptacosane	0.01	380	15.016
Octacosane	0.01	394	15.561
Nonacosane	0.01	408	16.106
triacontane	0.01	422	16.651
htriacontane	0.01	436	17.196
tetracosane	0.01	450	17.741
pentacosane	0.01	464	18.286
hexacosane	0.01	478	18.831
heptacosane	0.01	492	19.376
octacosane	0.01	506	19.921
nonacosane	0.01	520	20.466
triacontane	0.01	534	21.011
htriacontane	0.01	548	21.556
tetracosane	0.01	562	22.101
pentacosane	0.01	576	22.646
hexacosane	0.01	590	23.191
heptacosane	0.01	604	23.736
octacosane	0.01	618	24.281
nonacosane	0.01	632	24.826
triacontane	0.01	646	25.371
htriacontane	0.01	660	25.916
tetracosane	0.01	674	26.461
pentacosane	0.01	688	27.006
hexacosane	0.01	702	27.551
heptacosane	0.01	716	28.096
octacosane	0.01	730	28.641
nonacosane	0.01	744	29.186
triacontane	0.01	758	29.731
htriacontane	0.01	772	30.276
tetracosane	0.01	786	30.821
pentacosane	0.01	800	31.366
hexacosane	0.01	814	31.911
heptacosane	0.01	828	32.456
octacosane	0.01	842	33.001
nonacosane	0.01	856	33.546
triacontane	0.01	870	34.091
htriacontane	0.01	884	34.636
tetracosane	0.01	898	35.181
pentacosane	0.01	912	35.726
hexacosane	0.01	926	36.271
heptacosane	0.01	940	36.816
octacosane	0.01	954	37.361
nonacosane	0.01	968	37.906
triacontane	0.01	982	38.451
htriacontane	0.01	996	38.996
tetracosane	0.01	1010	39.541
pentacosane	0.01	1024	40.086
hexacosane	0.01	1038	40.631
heptacosane	0.01	1052	41.176
octacosane	0.01	1066	41.721
nonacosane	0.01	1080	42.266
triacontane	0.01	1094	42.811
htriacontane	0.01	1108	43.356
tetracosane	0.01	1122	43.901
pentacosane	0.01	1136	44.446
hexacosane	0.01	1150	44.991
heptacosane	0.01	1164	45.536
octacosane	0.01	1178	46.081
nonacosane	0.01	1192	46.626
triacontane	0.01	1206	47.171
htriacontane	0.01	1220	47.716
tetracosane	0.01	1234	48.261
pentacosane	0.01	1248	48.806
hexacosane	0.01	1262	49.351
heptacosane	0.01	1276	49.896
octacosane	0.01	1290	50.441
nonacosane	0.01	1304	50.986
triacontane	0.01	1318	51.531
htriacontane	0.01	1332	52.076
tetracosane	0.01	1346	52.621
pentacosane	0.01	1360	53.166
hexacosane	0.01	1374	53.711
heptacosane	0.01	1388	54.256
octacosane	0.01	1402	54.801
nonacosane	0.01	1416	55.346
triacontane	0.01	1430	55.891
htriacontane	0.01	1444	56.436
tetracosane	0.01	1458	56.981
pentacosane	0.01	1472	57.526
hexacosane	0.01	1486	58.071
heptacosane	0.01	1500	58.616
octacosane	0.01	1514	59.161
nonacosane	0.01	1528	59.706
triacontane	0.01	1542	60.251
htriacontane	0.01	1556	60.796
tetracosane	0.01	1570	61.341
pentacosane	0.01	1584	61.886
hexacosane	0.01	1598	62.431
heptacosane	0.01	1612	62.976
octacosane	0.01	1626	63.521
nonacosane	0.01	1640	64.066
triacontane	0.01	1654	64.611
htriacontane	0.01	1668	65.156
tetracosane	0.01	1682	65.701
pentacosane	0.01	1696	66.246
hexacosane	0.01	1710	66.791
heptacosane	0.01	1724	67.336
octacosane	0.01	1738	67.881
nonacosane	0.01	1752	68.426
triacontane	0.01	1766	68.971
htriacontane	0.01	1780	69.516
tetracosane	0.01	1794	70.061
pentacosane	0.01	1808	70.606
hexacosane	0.01	1822	71.151
heptacosane	0.01	1836	71.696
octacosane	0.01	1850	72.241
nonacosane	0.01	1864	72.786
triacontane	0.01	1878	73.331
htriacontane	0.01	1892	73.876
tetracosane	0.01	1906	74.421
pentacosane	0.01	1920	74.966
hexacosane	0.01	1934	75.511
heptacosane	0.01	1948	76.056
octacosane	0.01	1962	76.601
nonacosane	0.01	1976	77.146
triacontane	0.01	1990	77.691
htriacontane	0.01	2004	78.236
tetracosane	0.01	2018	78.781
pentacosane	0.01	2032	79.326
hexacosane	0.01	2046	79.871
heptacosane	0.01	2060	80.416
octacosane	0.01	2074	80.961
nonacosane	0.01	2088	81.506
triacontane	0.01	2102	82.051
htriacontane	0.01	2116	82.596
tetracosane	0.01	2130	83.141
pentacosane	0.01	2144	83.686
hexacosane	0.01	2158	84.231
heptacosane	0.01	2172	84.776
octacosane	0.01	2186	85.321
nonacosane	0.01	2200	85.866
triacontane	0.01	2214	86.411
htriacontane	0.01	2228	86.956
tetracosane	0.01	2242	87.501
pentacosane	0.01	2256	88.046
hexacosane	0.01	2270	88.591
heptacosane	0.01	2284	89.136
octacosane	0.01	2298	89.681
nonacosane	0.01	2312	90.226
triacontane	0.01	2326	90.771
htriacontane	0.01	2340	91.316
tetracosane	0.01	2354	91.861
pentacosane	0.01	2368	92.406
hexacosane	0.01	2382	92.951
heptacosane	0.01	2396	93.496
octacosane	0.01	2410	94.041
nonacosane	0.01	2424	94.586
triacontane	0.01	2438	95.131
htriacontane	0.01	2452	95.676
tetracosane	0.01	2466	96.221
pentacosane	0.01	2480	96.766
hexacosane	0.01	2494	97.311
heptacosane	0.01	2508	97.856
octacosane	0.01	2522	98.401
nonacosane	0.01	2536	98.946
triacontane	0.01	2550	99.491
htriacontane	0.01	2564	100.036
tetracosane	0.01	2578	100.581
pentacosane	0.01	2592	101.126
hexacosane	0.01	2606	101.671
heptacosane	0.01	2620	102.216
octacosane	0.01	2634	102.761
nonacosane	0.01	2648	103.306
triacontane	0.01	2662	103.851
htriacontane	0.01	2676	104.396
tetracosane	0.01	2690	104.941
pentacosane	0.01	2704	105.486
hexacosane	0.01	2718	106.031
heptacosane	0.01	2732	106.576
octacosane	0.01	2746	107.121
nonacosane	0.01	2760	107.666
triacontane	0.01	2774	108.211
htriacontane	0.01	2788	108.756
tetracosane	0.01	2802	109.301
pentacosane	0.01	2816	109.846
hexacosane	0.01	2830	110.391
heptacosane	0.01	2844	110.936
octacosane	0.01	2858	111.481
nonacosane	0.01	2872	112.026
triacontane	0.01	2886	112.571
htriacontane	0.01	2900	113.116
tetracosane	0.01	2914	113.661
pentacosane	0.01	2928	114.206
hexacosane	0.01	2942	114.751
heptacosane	0.01	2956	115.296
octacosane	0.01	2970	115.841
nonacosane	0.01	2984	116.386
triacontane	0.01	2998	116.931
htriacontane	0.01	3012	117.476
tetracosane	0.01	3026	118.021
pentacosane	0.01	3040	118.566
hexacosane	0.01	3054	119.111
heptacosane	0.01	3068	119.656
octacosane	0.01	3082	120.201
nonacosane	0.01	3096	120.746
triacontane	0.01	3110	121.291
htriacontane	0.01	3124	121.836
tetracosane	0.01	3138	122.381
pentacosane	0.01	3152	122.926
hexacosane	0.01	3166	123.471
heptacosane	0.01	3180	124.016
octacosane	0.01	3194	124.561
nonacosane	0.01	3208	125.106
triacontane	0.01	3222	125.651
htriacontane	0.01	3236	126.196
tetracosane	0.01	3250	126.741
pentacosane	0.01	3264	127.286
hexacosane	0.01	3278	127.831
heptacosane	0.01	3292	128.376
octacosane	0.01	3306	128.921