

OFFICE 000

PM 3:44

Attachment to C-105 H. V. Black No. 1-D

FORMATIONS

11827	Lime and Dolomite
11964	Lime and Shale
12005	Lime and Chert
12125	Lime and Shale
12165	Lime

DEVIATION - TOTCO SURVEYS

1/2 - 75'	1-1/4 - 5715'	3 - 8055'	4 - 10445'
3/4 - 275'	1-3/4 - 6000'	4-1/4 - 8175'	4 - 10490'
1/4 - 530'	2-1/2 - 6115'	4 - 8205'	3-1/2 - 10550'
1/4 - 730'	1-3/4 - 6160'	4-1/2 - 8240'	3-1/2 - 10610'
1/2 - 1600'	2-1/4 - 6182'	4-1/2 - 8270'	3-1/2 - 10665'
1/2 - 1940'	2-1/4 - 6255'	4-1/2 - 8305'	3-1/2 - 10730'
1/2 - 2190'	2-1/2 - 6290'	3-3/4 - 8330'	2-3/4 - 10800'
1/2 - 2335'	2-3/4 - 6355'	3 - 8382'	2-3/4 - 10830'
1/2 - 2440'	2-1/2 - 6435'	2-3/4 - 8440'	2-1/2 - 10945'
3/4 - 2715'	2-1/4 - 6475'	2-3/4 - 8485'	3-1/4 - 11065'
3/4 - 2815'	2-1/4 - 6570'	3-1/4 - 8550'	3 - 11102'
1-1/4 - 2965'	3-3/4 - 6630'	3 - 8608'	3-1/4 - 11150'
1 - 3035'	3-1/2 - 6660'	3-1/4 - 8700'	3-1/4 - 11205'
3/4 - 3260'	3-1/4 - 6750'	3-1/4 - 8760'	2-3/4 - 11260'
3/4 - 3575'	3-1/4 - 6780'	3 - 8882'	2-1/2 - 11325'
1-1/4 - 3645'	3-1/2 - 6880'	3-1/2 - 9115'	3 - 11360'
1 - 3700'	3-1/4 - 6900'	3-1/4 - 9240'	3-1/2 - 11465'
1 - 3840'	3-1/4 - 7010'	3-1/4 - 9320'	4-1/2 - 11590'
1-1/4 - 4000'	3 - 7085'	3 - 9500'	4-1/2 - 11610'
1 - 4220'	2-3/4 - 7120'	2-3/4 - 9620'	4-1/2 - 11715'
1 - 4520'	3 - 7190'	2-3/4 - 9710'	4 - 11795'
1 - 4960'	3 - 7300'	2-1/4 - 9930'	4-1/4 - 11885'
1 - 5022	2-3/4 - 7350'	2-3/4 - 10005'	4-1/2 - 11935'
1 - 5320'	2-3/4 - 7510'	4-1/4 - 10271'	4-3/4 - 11960'
1-1/4 - 5460'	2-1/2 - 7600'	4-1/2 - 10360'	4-3/4 - 11985'
3/4 - 5550'	3 - 7950'	4-1/2 - 10425'	5 - 12030'
1 - 5610'	3 - 8015'		6-1/4 - 12100'

DRILL STEM TEST

No. 1 - Misrun.

No. 2 - 1 Hour Howco Drill Stem Test from 12,104-12,125' with 1" surface choke, 5/8" choke at 12,079'. Packers at 12,097-12,104'. Bombs at 12084-12120'. Tool opened 2:PM. Weak blow of air 8 minutes, dead 52 minutes. Recovered 20' drilling mud, no show oil gas or water. HP 5700#. FP 215-185#. 15 Minute BHP 185#.