

Attachment - C-105

Gulf Oil Corporation - Gutman No. 2-C, 19-22-38

RECORD OF STIMULATION

10-23-54 - Acid treated open hole formation from 6749-7150' with 8000 gallons 15% LT NE acid.

1-10-55 - Treated perforations in 7" casing from 6200-6060' with 500 gallons mud acid.

1-10-55 - Treated perforations in 7" casing from 6200-6060' with 15,000 gallons Jack Frac, 1# sand per gallon.

1-17-55 - Treated perforations in 7" casing from 5600-5650' with 250 gallons mud acid.

1-17-55 - Treated perforations in 7" casing from 5600-5650' with 5000 gallons Jack Frac, 1# sand per gallon.

1-17-55 - Treated perforations in 7" casing from 5490-5550' with 250 gallons mud acid.

1-17-55 - Treated perforations in 7" casing from 5490-5550' with 6000 gallons Jack Frac, 1# sand per gallon.

Flowed at rate of 2,000 MCF per 24 hours thru casing annulus (Elinebry Gas).

Flowed at rate of 2,300 MCF per 24 hours thru 2-3/8" tubing (Tubb Gas).

DEVIATIONS - TOTCO SURVEYS

0	- 96'	3/4 - 2880	1-3/4 - 5640
1/4	- 333	1/4 - 3100	1 - 5725
3/4	- 1015	1/4 - 3487	3/4 - 6025
1	- 1240	3/4 - 4085	0 - 6391
1/2	- 1540	1-1/4 - 4370	1/2 - 6675
1/4	- 2050	3/4 - 4485	1-3/4 - 6960
1/4	- 2400	1/2 - 4858	1-3/4 - 7054
1/2	- 2500	1-1/8 - 5452	1-3/4 - 7108
1/2	- 2819		

DRIIL STRM TESTS

No. 1, 9-18-54 - 2 hour Howco DST from 5129-5220' - 1" surface choke, 1" choke at 5105' - Packers at 5121' and 5129' - Bombs at 5107' & 5219' - Jars at 5109' - Tool opened 7:10PM - Fair blow air thruout test, no fluid to surface - Recovered 270' oil & gas cut drilling mud, cut 15% oil - HP 2295# - FP 60-120# - 15 minutes BHP 210#.

No. 2, 9-19-54 - 1 hour Howco DST from 5220-5280' - 1" surface choke, 1" choke at 5189' - Packers at 5214' & 5220' - Bombs at 5193' & 5279' - Jars at 5206' - Tool opened 5:PM - Fair to weak blow air for 15 minutes, dead 45 minutes - Recovered 45' slightly gas cut drilling mud, no show oil - HP 2440# - FP 20# - 15 minute BHP 65#.

No. 3, 9-23-54 - 2 hour Howco DST from 5439-5550' - 1" surface choke, 1" choke at 5415' - Packers at 5431' & 5439' - Bombs at 5418' & 5549' - Jars at 5425' - Tool opened 4:AM - Gas to surface in 4 minutes, 24 hour rate 54,600 cu ft - No fluid to surface - Recovered 160' gas cut drilling mud, no show oil or water - HP 2500# - FP 90# - 15 minute BHP 150#.

No. 4, 9-26-54 - 2 hour Howco DST from 5550-5641' - 1" surface choke, 1" choke at 5528' - Packers at 5550' and 5542' - Bombs at 5640' & 5532' - Jars at 5537' - Tool opened 9:55AM - Gas to surface in 1 hour 50 minutes, TSTM - Recovered 250' oil & gas cut mud, 25 oil, no water - HP 2580# - FP 65# - 15 minute BHP 435#.

No. 6, 10-5-54 - 2 hour Howco DST from 6140-6240' - 1" surface choke, 1" choke at 6117' - Packers at 6132' & 6140' - Bombs at 6221' & 6239' - Jars at 6126' - Tool opened 5:10AM - Gas to surface in 25 minutes, 24 hour rate 6,200 cu ft - No fluid - Recovered 300' Gas cut mud, no show oil or water - HP 3125# - RP 100# - 15 minute BHP 720#.

No. 7, 10-7-54 - 2 hour Howco DST from 6320-6448' - 1" surface choke, 1" choke at 6295' - Packers at 6312' & 6320' - Bombs at 6298' & 6444' - Jars at 6303' - Tool opened 6:45PM - Gas to surface in 20 minutes, 24 hour rate 104,000 cu ft decreasing to 50,000 cu ft at end of test - No fluid - Recovered 540' Gas cut mud, no oil or water - HP 3200# - RP 85-112# - 15 minute BHP 935#.

No. 8, 10-10-54 - 1 hour Howco DST from 6580-6675' - 1" surface choke, 1" choke at 6529' - Packers at 6551' & 6572' - Bombs at 6553' & 6674' - Jars at 6338' - Tool opened 9:50PM - Weak blow air 10 minutes, dead in 30 minutes - Recovered 75' drilling mud, no show oil, gas or water - HP 3215# - RP 65# - 15 minute BHP 175#.