

SOUTHWESTERN LABORATORIES

1703 West Industrial — P. O. Box 2150

MIDLAND, TEXAS

683-3348

FRACTIONAL ANALYSIS REPORT

Rec'd. 4-17-74

SAMPLE MARKED Gulf Federal No. 1

FILE NO. C-1902-G

1980N-4W 35-19-2E

LAB. NO. 20268

SAMPLE FROM Hillard Oil and Gas

DATE SECURED ---

DATE OF RUN 4-18-74

SECURED BY Apex

COMPONENT	MOL. %	G. P. M.	LIQUID VOL. %
Oxygen			
Nitrogen	0.65		
Carbon Dioxide	0.69		
Methane	95.47		
Ethane	2.51		
Propane	0.48	0.132	
I-Butane	0.08	0.026	
N-Butane	0.07	0.022	
I-Pentane	0.03	0.011	
N-Pentane	0.02	0.007	
Hexanes plus	Trace		
Heptanes			
Hydrogen Sulfide	*		
Helium			
Hydrogen			
Carbon Monoxide			
TOTALS	100.00	0.198	

CONDENSATE VALUES, G.P.M.

Propane _____

Butane _____

Gasoline _____

HEATING VALVE, B.T.U. Per Cu. Ft.*

Calculated from % Composition 1028

Calculated water saturated 1010

SULPHUR CONTENT, Grains Per 100 Cu. Ft.*

Hydrogen Sulfide _____

Mercaptans _____

SPECIFIC GRAVITY*

Calculated from % Composition 0.583

Gravity Balance _____

*14.696 lbs./sq. in., 60° F

REMARKS * None detected by Tutwiler, less than 4 grains/100 cu. ft.

COPIES : 3cc Hillard Oil and Gas
1cc Apex Engineering Corporation

ORIGINAL SIGNED BY
SOUTHWESTERN LABORATORIES

Jack H. Barton