

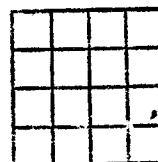
**WELL LOG BUREAU--KANSAS GEOLOGICAL SOCIETY**  
**508 East Murdock, Wichita, Kansas**

Company- **NATURAL GAS & OIL CORPORATION**  
 Farm- **Harrison No. 1**

SEC. **13 T. 24 R. 14W**  
 SE NE SE

Total Depth. **4210'**  
 Comm. **1-22-54** Comp. **2-13-54**  
 Shot or Treated.  
 Contractor. **Drilling Department of Natural Gas & Oil Corp.**  
 Issued. **4-10-54**

County **Stafford**  
**KANSAS**



**CASING:**

8 5/8" 193' cem w/200 sx  
 5 1/2" 3880' cem w/150 sx

Elevation. 1936 RB

Production. Flow 412 B & no wtr

Figures indicate Bottom of Formations.

surface clay	15	#5 4201-10, open 1 hr, rec 1455'
sand	100	sulphur water, 1230# BHP.
shale & shells	193	
shale	222	Ran Schlumberger and Lane-Wells Gamma Ray.
shale w/shells	310	
sand & red bed	830	Drilled to 3847, Perf 12 shot 3831-35, tested 416
anhydrite	849	LOGG PD, 16 gas salt water and 2 gal very heavy
shale & shells	1275	black oil per hour for 6 hours, no change. Set
salt & shale	1420	Baker Madel N plug at 3800, W/1 1/2 sx calceal to 3790.
shale & shells	1520	Perf 12 shot 3764-68, bailed slight show oil.
shale & lime	1836	Perf 30 shots 3758-64, tested 2 gal water & show oil.
lime	1950	Ran tubing to 3731.84 W/10' anchor, 3' perf. nipple
lime w/chert	2040	10' bbl, 4', 4' and 8' tbg subs set at 3770.80, 500
lime	2120	gal chemical process jelacid, 1700# max. pressure,
lime & shale	3517	went to vacuum.
shale	3592	Flowed 39 BO in 5 hrs thru 30/63" choke, 800# Tbg
lime	3853	pressure, 925# casing pressure, last 2 hours 5 BOPH
shale w/lime	3885	good flow gas, cannot measure until separator
lime & chert	3900	installed, no water, grav 31.9° @ 60°F.
chert	3934	Flowed 72 BO in 15 hrs on 16/64 choke, 830# tubing
shale	3995	pressure, 1060# casing pressure.
lime & chert	4005	Flowed 213 BO, no water, in 24 hours on 3/8" choke,
Viola	4032	760# tubing presame, 880# casing pressure.
lime & chert	4133	Flowed 88 BO, no water, in 12 hrs, thru 3/8" choke,
Simpson shale	4168	760# TP, 880# CP, Est gas 2,520,000. GOR 12,600.
Simpson sand	4175	
lime & shale	4189	March 3, 1954 - State Potential flowed 412 barrels
shale	4200	oil, no water, PD, thru 3/8" choke, 700# TP, 860#
Arbuckle	4210	CP, gravity 31.9 @ 60°.
Total Depth.		

Tops:  
 Anhydrite 830  
 Heebner 3431  
 Brown lime 3564  
 Lansing 3592  
 Base Kansas City 3853  
 Cherty Conglomerate 3909  
 Kinderhook 3933  
 Viola 4002  
 Simpson 4148  
 Arbuckle 4200

**DRILL STEM TESTS:**

- #1 3614-47, open 1 hr, rec 50' watery mud, 900# BHP.
- #2 3653-70, open 1 hr, gas in 17 min, rec 420' oil, IFP 120#, FFP 220#, BHP 1250#.
- #3 3702-41, open 1r min, shut in 20 min, gas to surface one min, gauged 1,630,000 CFG, recovered 10' mud, 420# IFP, 450# FFP, 1230# BHP.
- #4 3746-66, open 1 hr, shut in 20 min, gas to surface in 25 min, rec. 175' gassy oil G# IFP, 25# FFP, 1250# BHP.