

EVR = 600

FEB 27 91

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

API # 47- 21-04908

Well Operator's Report of Well Work

Farm name: BUTCHER, MARGARET ETAL. Operator Well No.: BALL#2A-WACO624

LOCATION: Elevation: 831.00 Quadrangle: TANNER

District: DEKALB County: GILMER
Latitude: 2130 Feet South of 38 Deg. 57Min. 30 Sec.
Longitude 4140 Feet West of 80 Deg. 52 Min. 30 Sec.

Company: WACO OIL & GAS CO., INC.
1297 N. LEWIS ST.
GLENVILLE, WV 26351-0000

Agent: STEPHEN E. HOLLOWAY

Inspector: CRAIG DUCKWORTH
Permit Issued: 11/01/90
Well work Commenced: 11/02/90
Well work Completed: 11/07/90
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 6144'
Fresh water depths (ft) 68'
Salt water depths (ft) _____
None
Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	843	843	C. T. S.
4-1/2"		6061	750 Sks.

OPEN FLOW DATA

Shale, Elk, sec
Producing formation Alexander, Benson Pay zone depth (ft) treatment

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1958 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1595 psig (surface pressure) after 48 Hours

Riley, sec
Second producing formation Balltown, Speechly Pay zone depth (ft) treatment

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: WACO OIL & GAS CO., INC.

By: Daniel R. Chapman, Geologist
Date: January 15, 1991

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

- 1st stage: Devonian Shale (6032-5294) 1000 gal 15% HCL, 40 ton CO₂, 633 McF N₂
 2nd stage: Elk, Alexander, Benson (4755-4330) 675 gal 15% HCL, 40 ton CO₂, 855 McF N₂
 3rd stage: Riley, Balltown (4267-3615) 675 gal 15% HCL, 40 ton CO₂, 915 McF N₂
 4th stage; Balltown, Speechly (3267-2843) 880 gal 15% HCL, 40 ton CO₂, 1,175 McF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas	
Sand, Shale			0	97	1-1/2" stream @ 68'	
Sand, Shale, Red Rock			97	379		
Sand, Shale			379	1470		
Little Lime			1470	1493		
Blue Monday			1493	1515		
Big Lime			1515	1557		
Big Injun			1557	1666		
Sand, Shale			1666	2828		
Speechly Section			2828	3113		
Shale			3113	3187		
Balltown Section			3187	3838		
Riley Section			3838	4280		
Shale			4280	4326		
Benson			4326	4342		
Shale			4342	4576		
Alexander			4576	4642		
Shale			4642	4743		
Elk Section			4743	4998		
Shale			4998	6144		T. D.

(Attach separate sheets as necessary)