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WV Division of  
Environmental Protection

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

DEC 06 1994

**Permitting  
Office of Oil & Gas**

Well Operator's Report of Well Work

Farm name: SIMPSON, ROBERT & MARVIN Operator Well No.: BEE #1

LOCATION: Elevation: 1,021.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE  
Latitude: 13825 Feet South of 39 Deg. 17Min. 30 Sec.  
Longitude 8850 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: KEY OIL COMPANY  
22 GARTON PLAZA  
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit Issued: 11/07/94  
Well work Commenced: 11/12/94  
Well work Completed: 11/18/94  
Verbal Plugging  
Permission granted on: \_\_\_\_\_ Rig  
Rotary X Cable  
Total Depth (feet) 5317  
Fresh water depths (ft) 131, 567

Salt water depths (ft) -0-

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): NONE

**OPEN FLOW DATA**

Balltown  
Riley  
Benson  
Alexander

Producing formation \_\_\_\_\_ Pay zone depth (ft) 5175-5225  
Gas: Initial open flow 103 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 1,299 MCF/d Final open flow SHOW Bbl/d  
Time of open flow between initial and final tests N/A Hours  
Static rock Pressure 1200 psig (surface pressure) after 48 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	146	146	70 sks. to surface
8 5/8	1520	1520	395 sks. to surface
4 1/2		5284	380 sks.
2 3/8"		5140	

3852-3878  
4460-4501  
4895-4901

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: KEY OIL COMPANY

By: *[Signature]* President  
Date: December 1, 1994

Bee #1 (47-017-4168)  
4 Stage Foam Frac - Halliburton

Stage 1:	Alexander (13 holes)	5182.75'-5222'	60 Quality Foam, 500 gal. 15% HCl, 50,000 lbs. 20-40 sand, 440,000 SCF N <sub>2</sub> , 714 bbls. foam
Stage 2:	Benson (10 holes)	4897'-4899.25'	75 Quality Foam, 750 gal. 15% HCl, 25,000 lbs. 20-40 sand, 390,000 SCF N <sub>2</sub> , 471 bbls. foam
Stage 3:	Riley (10 holes)	4463.25'-4498'	60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 30,000 lbs. 20-40 sand, 508,000 SCF N <sub>2</sub> , 610 bbls. foam
Stage 4:	Balltown (7 holes) (3 holes)	3870'-3871.5' 3991'-3991.5'	60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 30,000 lbs. 20-40 sand, 445,000 SCF N <sub>2</sub> , 602 bbls. foam

WELL LOG

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Shale	0	8	
White Sand	8	49	
Shale and Red Rock	49	62	
Sand	62	84	
Red Rock and Shale	84	100	
Sand	100	112	
Sand and Shale	112	130	
Sand	130	158	
Red Rock	158	177	
Sand	177	202	
Shale and Red Rock	202	325	1/4" Stream H <sub>2</sub> O at 131'
Sand and Shale	325	445	Damp at 567'
Sand	445	561	
Sand and Shale	561	1012	
Shale	1012	1810	
Little Lime	1810	1838	
Big Lime	1838	2000	
Big Injun	2000	2050	
Sand and Shale	2050	3852	
Balltown	3852	3878	
Sand and Shale	3878	4460	
Riley	4460	4501	
Sand and Shale	4501	4895	
Benson	4895	4901	
Sand and Shale	4901	5175	
Alexander	5175	5225	
Shale	5225	5317	T.D.

Gas Checks:

1731' N/S  
1918' N/S  
2512' N/S  
3014' N/S  
3514' N/S  
4039' 6/10 thru 2" w/water  
4320' 2/10 thru 2" w/water  
4600' 2/10 thru 2" w/water  
4911' 2/10 thru 2" w/water  
5317' T.D. 6/10 thru 2" w/water