



RECEIVED  
Environmental Protection

JAN 27 1997

Permitting  
Office of Oil & Gas

Date: 23-Feb-96  
API # 47-017-04246

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

Well Operator's Report of Well Work

Farm name: Robinson, E.B. Operator Well No.: Robinson #1

LOCATION: Elevation: 814.00 Quadrangle: Smithburg

District: Grant County: Doddridge  
Latitude: 12,850 Feet South of 39 Deg. 22 Min. 30 Sec.  
Longitude: 7,425 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: Cabot Oil & Gas Corporation  
400 Fairway Drive: Suite 400  
Coraopolis, PA 15108-4308

Agent: John W. Abshire

Inspector: Mike Underwood  
Permit Issued: 02/22/96  
Well Work Commenced: 02/28/96  
Well Work Completed: 03/16/96  
Verbal Plugging  
Permission granted on:  
Rotary X Cable      Rig       
Total Depth (feet) 5128'  
Fresh Water Depths (ft) 20', 36', 75'  
Salt Water Depths (ft) 1166', 1370'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
20"	25'	25	
16"	41'	41'	
9-5/8"	443'	443'	175 sks Class "A"
7"	1465'	1465'	250 sks Class "A"
4-1/2"	4910'	4910'	300 sks 50/50 Poz

Is coal being mined in area (Y / N)?      N       
Coal Depths (ft) 34'-36', 403'-405'

OPEN FLOW DATA

Producing formation	<u>    </u> Benson <u>    </u>	Pay zone depth (ft)	<u>    </u> 4799' - 4805' <u>    </u>
Gas: Initial open flow	<u>    </u> TSTM <u>    </u> MCF/d Oil:	Initial open flow	<u>    </u> N/A <u>    </u> Bbl/d
Final open flow	<u>    </u> 239 <u>    </u> MCF/d	Final open flow	<u>    </u> N/A <u>    </u> Bbl/d
Time of open flow between initial and final tests	<u>    </u>	<u>    </u> 4 <u>    </u>	<u>    </u> Hours
Static rock pressure	<u>    </u> 1075 <u>    </u> psig (surface pressure after	<u>    </u> 15 <u>    </u>	<u>    </u> Hours

Second producing formation	<u>    </u>	Pay zone depth (ft)	<u>    </u>
Gas: Initial open flow	<u>    </u> MCF/d Oil:	Initial open flow	<u>    </u> Bbl/d
Final open flow	<u>    </u> MCF/d	Final open flow	<u>    </u> Bbl/d
Time of open flow between initial and final tests	<u>    </u>	<u>    </u>	<u>    </u> Hours
Static rock pressure	<u>    </u> psig (surface pressure after	<u>    </u>	<u>    </u> 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.

JAN 31 1997

For: CABOT OIL & GAS CORPORATION  
By:       
Date:      1-23-97

**OPEN FLOW DATA**

	formation _____	Pay zone depth (ft) _____
Gas: Initial open flow _____	MCF/d Oil: _____	Initial open flow _____
Final open flow _____	MCF/d _____	Final open flow _____
Time of open flow between initial and final tests _____		
	formation _____	Pay zone depth (ft) _____
Gas: Initial open flow _____	MCF/d Oil: _____	Initial open flow _____
Final open flow _____	MCF/d _____	Final open flow _____
Time of open flow between initial and final tests _____		
Static rock pressure _____ psig ( surface pressure ) after _____		

Perf'd Benson @ 4799' - 4805'. Broke down with 250 gals 15% HCl acid and treated water. Break down pressure - 2600 psi. ISIP - 1680 psi. Frac with 75Q foam, 59,400# 20/40 mesh sand and 468,000 SCF N2. ATP - 3110 psi. ISIP - 2750 psi.

FORMATION	TOP	BOTTOM
Sand	0	34
Coal	34	36
Sand/Shale	36	428
Coal	428	432
Sand/Shale	432	1689
Big Lime	1689	1880
Sand/Shale	1880	2450
Gordon	2450	2475
Sand/Shale	2475	2753
Fifth Sand	2753	2762
Silt/Shale	2762	4800
Benson	4800	4835
Silt/Shale	4835	5128 - TD

FFB 2 2 1996

017-4246

FORM WW-2B

Page \_\_\_ of \_\_\_

Permitting STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

21595

- 1) Well Operator: CABOT OIL & GAS CORPORATION 8145 (3) 611
2) Operator's Well Number: E.B. ROBINSON #1 3) Elevation: 815'
4) Well type: (a) Oil \_\_\_ / or Gas X / Issued 02/22/96 Expires 02/22/98
(b) If Gas: Production X / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /
5) Proposed Target Formation(s): BENSON 435
6) Proposed Total Depth: 5025 feet
7) Approximate fresh water strata depths: 250'
8) Approximate salt water depths: 1375'
9) Approximate coal seam depths: 400'
10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /
11) Proposed Well Work: DRILL AND COMPLETE A GAS WELL.
12) BASED ON DODDRIDGE 1626 & 1852

CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up (cu. ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS : Kind \_\_\_ Sizes \_\_\_ Depths set \_\_\_

For Division of Oil and Gas Use Only

Fee(s) paid: [ ] Well Work Permit [ ] Reclamation Fund [ ] WPCP
[ ] Plat [ ] WW-9 [ ] WW-2B [ ] Bond [ ] Agent
(Type)

\*If additional water is not found below 9-5/8" casing well will be drilled on to total depth without 7" casing being set.

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WV Division of  
Environmental Protection

Page 1 of \_\_\_\_\_  
Form WW2-A  
(6/94)  
File Copy

FEB 22 1996

1) Date: February 20, 1996  
2) Operator's well number  
E.B. Robinson #1  
3) API Well No: 47 - 017 - 4246  
State County Permit

Permitting  
Office of Oil & Gas  
STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name E.B. Robinson  
Address P.O. Box 22  
Shirley, WV 26434  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- \_\_\_\_\_

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name E.B. Robinson  
Address P.O. Box 22  
Shirley, WV 26434  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CABOT OIL & GAS CORPORATION  
By: [Signature]  
Its: ENGINEERING MANAGER  
Address 400 Fairway Drive, Suite 400  
Coraopolis, PA 15108  
Telephone (412) 299-7000

Subscribed and sworn before me this 20th day of FEBRUARY, 1996

My commission expires JUNE 07, 1996  
Cynthia M. Bowles

Notarial Seal  
Cynthia M. Bowles, Notary Public  
Charter: Twp., Washington County  
My Commission Expires June 17, 1996  
Member, Pennsylvania Association of Notaries