

Date: API#

11-Nov-97 47-107-01586

State of West Virginia Division of Environmental Protection

Section of Oil and Gas Well Operator's Report of Well Work

\mathbf{a}	rm	name:

Bryant, Gary W.

Operator Well No.:

G.W. Bryant #1

OCATION:

gent:

nspector:

ermit Issued:

Elevation:

841.35

5/30/97

6/10/97

7/2/97

Rig

4804

92'

800'

Quadrangle:

Pond Creek

District:

Steele

County:

Wood

Latitude:

800 Feet South of 39 Deg. 5 Min. 0 Sec.

Longitude:

10,500 Feet West of 81 Deg. 37 Min. 30 Sec.

Company: Cabot Oil & Gas Corporation

400 Fairway Drive: Suite 400

Coraopolis, PA 15108-4308

John Abshire Glen Robinson

Vell Work Commenced:

Vell Work Completed:

erbal Plugging ermission granted on:

lotary \mathbb{X} Cable

otal Depth (feet) resh Water Depths (ft)

alt Water Depths (ft)

coal being mined in area (Y / N)?

Coal Depths (ft)

*			
Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
9-5/8"	665'	665'	250 sks Neat
7"	1885'	1885'	300 sks Neat
4-1/2"	4768'	4768'	115 sks RFC

Hours

PEN FLOW DATA

tatic rock pressure

roducing formation		Oriskany	Pay zone depth (ft)	4668'-	4688'
as: Initial open flow	358	MCF/d Oil:	Initial open flow	N/A	Bbl/d
Final open flow	189	MCF/d	Final open flow	N/A	– Bbl/d
Time of open flo	w betwe	en initial and f	inal tests	5	– Hours
tatic rock pressure	1440	_ psig (surface p	ressure after	63	_ Hours
econd producing form	ation		Pay zone depth (ft)		
as: Initial open flow		MCF/d Oil:	Initial open flow		Bbl/d
Final open flow		MCF/d	Final open flow		- Bbl/d
Time of open flo	w betwe	en initial and f	inal tests		Hours

psig (surface pressure after

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

CABOT OIL & GAS CORPORATION

MOV

OPEN FLOW DATA

Perf'd Oriskany from 4668'-4688'. Broke down with 250 gals 15% HCl acid and treated H₂O. Breakdown pressure 2450 psi. Performed water frac with 30,000# 20/40 mesh sand. ATP 2450 psi. ATR 15.5 bpm. ISIP 2500 psi.

FORMATION	TOP	воттом	REMARKS
Silt/Shale	0	670	
Sand	670	710	
Shale	710	1160	
Sand/Silt	1160	1710 ·	
B. Lime	1710	1804	
Injun	1804	1820	
Silt/Shale	1820	2278	
Berea	2278	2280	
Shale	2280	4574	
Onondaga	4574	4674	
Oriskany	4674	4700	
Limestone	4700	4804 - TD	

197-1586

FORM WW-2B

Page	of	

	STATE	<u>OF</u>	WEST	VIRO	INIA	

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS									
1)	Well Operator: Cabot Oil & Gas Corporation & 45 (4)								
,				49					
2)	2) Operator's Well Number: G.W. Bryant #1 3) Elevation: 841.35								
4)	Well Type:	a) Oil _	/ or	Gas X	/	Issad Express	05/30/97 05/30/99		
	b) If Gas: Production X / Underground Storage / Shallow /								
5)	Proposed Target F	Formation(s)	: Oriska	iny 475	,		<u> </u>		
)	Proposed Total De	epth:	477	7 5	feet		Night Park		
7)	Approximate fresh	water strat	a depths:			370', 595'	77		
8)	Approximate salt	water depths	s:	9	90', 1175', 14	16', 1645', 17			
9)	Approximate coal	seam depths	:		N	I/A	C8*		
10)	Does land contain	coal seams t	ributary to a	active mine?	Yes _	/ No	X/		
11)	Proposed Well Wo	ork: <u>Dril</u>	l and complet	te a gas well.					
12) Based on Jackson 978, 992 and 994									
12)	Based on Jackson 9	78, 992 and 9	994						
12)	Based on Jackson 9			D TUBING	PROGRAM				
·		<u>(</u>	CASING AN		PROGRAM TAGE INTE	RVALS	CEMENT		
ŕ	Based on Jackson 9	<u>(</u>		FOO	PROGRAM FAGE INTEL	RVALS Left in			
·		<u>(</u>	CASING AN		AGE INTE		CEMENT Fill-up (cu. ft.)		
TY	PE	SPECIFI	CASING AN	FOOT Weight	For	Left in	Fill-up		
TY Co		SPECIFI Size	CASING AN ICATIONS Grade	FOO? Weight per ft.	FAGE INTEL For Drilling	Left in Well	Fill-up (cu. ft.)		
TY Co	PE nductor esh Water	SPECIFI Size 16"	CASING AN ICATIONS Grade L.S.	FOOT Weight per ft. 65#	For Drilling 30'	Left in Well 30'	Fill-up (cu. ft.) 10 sks (GFS)		
Co Fre	PE nductor esh Water al	SPECIFI Size 16"	CASING AN ICATIONS Grade L.S.	FOOT Weight per ft. 65#	For Drilling 30'	Left in Well 30'	Fill-up (cu. ft.) 10 sks (GFS)		
Co Free Co	PE nductor esh Water	SPECIFI Size 16" 9-5/8"	CASING AN ICATIONS Grade L.S. L.S.	FOOT Weight per ft. 65# 32#	For Drilling 30' 650'	Left in Well 30' 650'	Fill-up (cu. ft.) 10 sks (GFS) 230 sks (CTS)		
Co Free Co Int	nductor esh Water al ermediate oduction	SPECIFI Size 16" 9-5/8" 7"	CASING AN ICATIONS Grade L.S. L.S. J-55	FOOT Weight per ft. 65# 32#	For Drilling 30' 650'	Left in Well 30' 650'	Fill-up (cu. ft.) 10 sks (GFS) 230 sks (CTS) 270 sks (CTS)		
Co Free Co Int Pre	nductor esh Water al ermediate	SPECIFI Size 16" 9-5/8" 7"	CASING AN ICATIONS Grade L.S. L.S. J-55	FOOT Weight per ft. 65# 32#	For Drilling 30' 650'	Left in Well 30' 650'	Fill-up (cu. ft.) 10 sks (GFS) 230 sks (CTS)		
Co Free Co Int Pree Tu	nductor esh Water al ermediate oduction bing	SPECIFI Size 16" 9-5/8" 7"	CASING AN ICATIONS Grade L.S. L.S. J-55	FOOT Weight per ft. 65# 32#	For Drilling 30' 650'	Left in Well 30' 650'	Fill-up (cu. ft.) 10 sks (GFS) 230 sks (CTS) 270 sks (CTS)		
Co Free Co Int Pree Tu	nductor esh Water al ermediate oduction bing ners CKERS: Kind	SPECIFI Size 16" 9-5/8" 7" 4-1/2"	CASING AN ICATIONS Grade L.S. L.S. J-55	FOOT Weight per ft. 65# 32#	For Drilling 30' 650'	Left in Well 30' 650'	Fill-up (cu. ft.) 10 sks (GFS) 230 sks (CTS) 270 sks (CTS)		
Co Free Co Int Pree Tu	nductor esh Water al ermediate oduction bing ners CKERS: Kind Sizes	SPECIFI Size 16" 9-5/8" 7" 4-1/2"	CASING AN ICATIONS Grade L.S. L.S. J-55	FOOT Weight per ft. 65# 32#	For Drilling 30' 650'	Left in Well 30' 650'	Fill-up (cu. ft.) 10 sks (GFS) 230 sks (CTS)		
Co Free Co Int Pree Tu	nductor esh Water al ermediate oduction bing ners CKERS: Kind Sizes	Size 16" 9-5/8" 7" 4-1/2"	Grade L.S. L.S. J-55 N-80	FOOT Weight per ft. 65# 32#	For Drilling 30' 650' 1850' 4725'	Left in Well 30' 650'	Fill-up (cu. ft.) 10 sks (GFS) 230 sks (CTS)		
Co Free Co Int Pro	nductor esh Water al ermediate oduction bing ners CKERS: Kind Sizes	SPECIFI Size 16" 9-5/8" 7" 4-1/2" hs set Well Wor	Grade L.S. L.S. J-55 N-80	FOOT Weight per ft. 65# 32# 20# 11.6#	For Drilling 30' 650' 1850' 4725'	Left in Well 30' 650' 1850' 4725'	Fill-up (cu. ft.) 10 sks (GFS) 230 sks (CTS) 270 sks (CTS)		

(Type)

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

2)	Operator's well number May 8, 1997
3)	API Well No: 47 - 107 - 1586

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	NOTICE			
4 \	Surface Owner(s) to be served: 5) (a) Name Address 13534 Gatewood Avenue	(a) Coal Operator:		•
4)	(a) Name Gary W. Bryant	Name Not Op	erated	
	Address 13534 Gatewood Avenue	Address		-
	Chesapeake, WV 23313	(b) Coal Owner	(s) with Declaration	
	(b) Name	Name Gar	y W. Bryant	
	Address	Address 135	y W. Bryant 34 Gatewood Avenue	_
	(a) Name	Che	Sapeake, WV 25515	
	(c) NameAddress	Name		
	Inspector Glen Robinson Address P.O. Box 1 Belleville, WV 26133	(c) Coal Lesse	e with Declaration	
6)	Inspector Gien Robinson	Name		
	Relleville, WV 26133	Address		
	Telephone (304)- 543-0735			
			KE NOTICE THAT:	
	TO THE PERSON(S)	NAMED ABOVE 14	AE NOTICE THAT	
	Included is the lease or leases or	other continuing co	ntract or contracts by which	ch I hold the
rich	to extract oil and gas OR			ande of West
rign	t to extract oil and gas <u>OR</u> Included is the information required	by Chapter 22, Art	cle 6, Section 6(a) of the c	Jode of Wood
Vira	iinia (see page 2)		4 Viscinia Code I have sen	ved copies of
	inia (see page 2) I certify that as required under Chan notice and application, a location pla	pter 22 of the <u>vves</u>	ng documents pages 1 thr	ough on
this	notice and application, a location pla	it, and accompany	ng doode.me page	
the	above named parties, by:	ttached)		
	Personal Service (Affidavit a X Certified Mail (Postmarked p	nctal receipt attact	ed)	
	Publication (Notice of Public	ation attached)	,	
	Publication (Notice of Fublic			he terms and
	I have read and understand Chap	ter 22-6 and 38 C	SR 11-18, and I agree to t	ne terms and
cor	nditions of any permit issued under this	application.	III. examined and am farr	niliar with the
	I certify under penalty of law th	at I have persona	ments and that based on	my inquiry of
info	I certify under penalty of law the permation submitted on this application use individuals immediately responsible	form and an allaci	nformation. I believe that the	ne information
tho	se individuals immediately responsible	, lor obtaining are .	,	
is t	rue, accurate, and complete. I am aware that there are signific	ant penalties for su	ubmitting false information,	including the
	ssibility of fine and imprisonment.			
po	Well O	perater <u>Ca</u>	bot Oil & Gas Corporation	<u>n</u>
	By:	Sol Will	thic	
	Its:		ologist	00
	Addres	s40	O Fairway Drive Suite 4	00
			raopolis, PA 15108	
	Teleph	00	12)299-7000 , 19 <u>97</u>	
Su	ibscribed and sworn before me this _6	TH day ofMAY_	, 10	
		Alander	Notary F	Public
N.A.	y commission expires APRIL	30 2001		-
IVI	y continues on sapiros		Notarial Seal	
			Susan K. Hayden, Notary Public Moon Twp., Allegheny County	•
		N	y Commission Expires April 30, 2001	
			mber, Pennsylvania Association of Notaries	



STATE OF WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION

#10 McJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

May 21, 1997

Division of Environmental Protection Office of Oil and Gas Nitro, West Virginia

Re: Application for Permit #47-107-01586 drill deep well.

COMPANY: Cabot Oil and Gas Corporation

FARM: G. W. Bryant #1

COUNTY: Wood DISTRICT: Steele QUAD: Pond Creek

The application of the above company is <a href="https://proved.com/Ap

Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; **yes**
- 2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; *yes
- 3.) Provided a plat showing that the proposed location is a distance of 469 feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Brett Loflin (CR)

Engineer

* 3,300 feet to 47-107-01186