

6-6 279



DEC 08 -- 1

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

Damitting

Well Operator's Report of Well Work

	In California Ch.	
	Office of Oil & Gas	
	Office of Oil or dee	
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H Carren	name:	
A CLE LEE	and and a second	

Llyod Archer

Operator Well No.:

L. Archer #1

25-Nov97

47-035-02381

LOCATION:

Elevation:

912.40

Rig

5109'

Ouadrangle:

Rockport

Date:

API#

District: Grant County:

Jackson

Latitude:

9,300 Feet South of 39 Deg. 2 Min. 30 Sec.

Longitude:

2,750 Feet West of 81 Deg. 35 Min. 0 Sec.

Company: Cabot Oil & Gas Corporation

400 Fairway Drive: Suite 400

Coraopolis, PA 15108-4308

Agent:	John Abshire
Inspector:	Homer Dougherty
Permit Issued:	6/4/97
Well Work Commenced:	6/17/97
Well Work Completed:	7/11/97
Verbal Plugging	

Permission granted on:

 \mathbb{X} Rotary Cable

Total Depth (feet)

Fresh Water Depths (ft)

Salt Water Depths (ft) 1200'

Is coal being mined in area (Y / N)?

Coal Depths (ft)

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
16"	30'	30'	
9-5/8"	924'	924'	325 sks Neat
7"	2031'	2031'	360 sks Neat
4-1/2"	5076'	5076'	115 sks RFC

OPEN FLOW DATA Producing formation

Producing formation	Oriskany		Pay zone depth (ft)	4964' -	4992'
Gas: Initial open flow	15	MCF/d Oil:	Initial open flow	N/A	Bbl/d
Final open flow	testing	MCF/d	Final open flow	N/A	Bbl/d
Time of open flo	w betwee	en initial and f	inal tests		Hours
Static rock pressure800 psig (surface pressure after				84	Hours
Second producing forms	ation		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					
Static rock pressure		psig (surface p			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: CABOT OIL & GAS CORPORATION

OPEN FLOW DATA

Perf'd Oriskany @ 4964'-4992'. Broke down with 250 gals 15% HCl acid and treated H_2O . Breakdown pressure 3730 psi. ISIP 3600 psi. Water frac with 17,700# 20/40 mesh sand. ATP 4320 psi. MTP 5450 psi. AIR 19.7 bpm.

FORMATION	TOP	ВОТТОМ	REMARKS
Shale/Silt	0	1360	
Sand/Shale	1360	1700	
Sand	1700	1850	
B. Lime	1850	1920	
Injun	1920	1952	
Shale	1952	1990	
Weir	1990	2025	
Shale	2025	2370	
Berea	2370	2371	
Shale	2371	4840	The second secon
Onondaga	4840	4964	
Oriskany	4964	4992	
Limestone	4992	5109 - TD	

035-2381

FORM WW-2B

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STATE OF WEST VIR	JINIA	
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DIVISION OF ENVIRONMENTAL PROTECTION,	OFFICE OF OIL AND GAS

	DIVISION				PPLICATIO			
1) W	ell Operator:	**************************************				678	(2)	
1) **	cii Operator.	Caoot on &	Gus Corpore	49				
2) O	perator's Well N	Number: _	L. Archer #1		3) Elevation	on:	912.40	
4) V	Vell Type:	a) Oil _	/ or	Gas X	/	Expera	d 06/04/97 à 06/04/99	
		b) If Gas:	Prod	luction X	/Undergr	ound Storage		
5) P	roposed Target l	Formation(s):	Oriska	Deep X ny 475		Shallow	1	
) P	roposed Total De	epth:	510	0	feet			
) A	pproximate fresl	h water strata	a depths:			738`, 828`		
8) A	approximate salt	water depths	•		18	325'		
							Office Participation of	
9) A	pproximate coal	seam depths	•		N	7/A		
10) D	oes land contain	coal seams to	ributary to a	ctive mine?	Yes _	/ No _	Cilico of Oil 2 Gas	
11) P	roposed Well W	ork: Dril	l and complet	e a gas well.			0.61	
11) Proposed Well Work: Drill and complete a gas well. 12) Based on Jackson 598, 2316 and coal company maps CASING AND TUBING PROGRAM CASING AND TUBING PROGRAM								
					PRUGRAM		// . ***	
TYPE	4	SPECIFI	CATIONS	,	AGE INTER		CEMENT	
		Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)	
Condi	uctor	16"	L.S.	65#	30'	30'	10 sks (GFS)	
Fresh	Water	9-5/8"	L.S.	32#	900'	900' /	310 sks (CTS)	
Coal	***************************************					/		
	nediate	7''	J-55	20#	1900'	1900' 🔏	300 sks (CTS)	
Produ		4-1/2"	N-80	11.6#	5050'	5050' -	50 sks	
Tubin	<u> </u>							
Liners	S							
PACKERS: Kind 386Kithir (
	Sizes							
	Depths set							
} 	For Office of Oil and Gas Use Only							
Fee	e(s) paid:	□Well Wor			eclamation F	und	□ WPCP	
Pla	t WW-	.9 \[\bigw'	W-2B	Bond			Agent	
					(Type)			

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

1) Date.__ Liciy Operator's well number 2) L. Archer #1 API Well No: 47 - 035 - 2381 3) Permit State County

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

		NOTICE AN	ID APPLICATI	ON FOR A	WELLY	VORK PERMIT		
4)	Surface Ov	(-) 40 50 0	on(od: 5)(a)	Coal Oper	ator:			7125
7	/ \	THOUGHT AFTER	er el lix		210 C C P	perated		
	Address	Route 1, Box	56	Address .		with Declaration J. Archer, et 1, Box 56 abeth, WV 26143		
	, , , , , , , , , , , , , , , , , , , ,	Elizabeth, WV	26143		2	with Doctoration		. >
	(b) Name			(b) Coal	Jwner(s)	Will Declaration		
	Address _			Name	Route	2 1. Box 56	<u> </u>	
				_Aaaress	Eliza	1 J. Archer, et 2 1, Box 56 abeth, WV 26143		্যক্ত
	(c) Name_			Name				
	Address _			Address				
	1	Homer Doughe		(c) Coal	Lessee w	vith Declaration		
6)	inspector.	Linden Route	Box 34					
	Address _	Linden Route Looneyville,	WV 25259	Address				
	Talanhan	e (304)- <u>543</u> -	0781	eggzenti*				
	i elebilori							
						NOTICE THAT:		
	Included is	s the lease or	leases or other	er continui	ng contra	act or contracts t	by which I	hold the
right	to extract o	il and gas <u>OR</u>		_		0.0-4:0/d\ 0	s the Code	of Mest
y y	Included is	the information	n required by	Chapter 2	2, Article	6, Section 8(d) c	if the Code	S OL AACS!
Virai	nia (see pag	ge 2)			101411	Codo I ha	ve served	conies of
v 5	I certify th	nat as required	under Chapte	er 22 of the	west v	<u>rirginia Code</u> I hav	e 1 through	b on
this	notice and	application, a	location plat, a	and accom	ipanying	documents page:	5 1 1111049	
the a	shove name	d namies, by:						
	Da	rennal Service	(Affidavit atta	cnea)	attachad'	١		•
	X Ce	ertified Mail (Po	stmarked post	ai receipi	allached a)		
	Pu	iblication (Noti	ce of Publication	on attache	u)			
	l have re	ad and under	stand Chapter	22-6 and	38 CSR	11-18, and I agre	ee to the f	terms and
~~~	i Have re	y permit issue	d under this ac	plication.				
COLL	ullions of an	under penalty	of law that	l have pe	rsonally	examined and a	m tamiliar	- with the
info	mation sub	mitted on this	application for	m and all	attachme	ents, and that bas	ed on my	inquiry or
thos	se individual	s immediately	responsible fo	r obtaining	, the info	rmation, I believe	that the ii	IlOmnation
is tr	ue accurate	e, and complete	e. ·			illian falan inform	nation inc	luding the
	am awa	are that there	are significant	penalties	tor subm	nitting false inform	nation, inc	ading the
pos	sibility of fin	e and imprisor	iment.					
F	•		Well Uper	atgr	A CONTRACTOR OF THE PARTY OF TH	il & Gas Corpora	Elon	description of the second seco
			Ву:	oh W/	Geologis	o +		<del></del>
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			Address _			lis, PA 15108	<u>e 400</u>	-
					(412)299			
			Telephone				97	
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						Notarial Se Susan K. Hayden, N	name to the second	- Workstand
						Moon Twp., Alleghe My Commission Expires	iny County	**************************************
						Member, Pennsylvania Asso	mpri: 30, 2001	
							CIAUUH OF HOLANS	5



### STATE OF WEST VIRGINIA

#### OIL AND GAS CONSERVATION COMMISSION

#10 McJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

May 27, 1997

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

Re: Application for Permit #47-035-02381 drill deep well.

COMPANY: Cabot Oil and Gas Corporation

FARM: Lloyd Archer #1

COUNTY: Jackson DISTRICT: Grant QUAD: Rockport

The application of the above company is Approved for Oriskany. (Approved or Disapproved)

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 462 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.

Engineer

* 3,026 feet to 47-035-02362 2,800 feet to 47-035-00571P 2,680 feet to 47-035-00598P

3,650 feet to 47-035-00659P