

Mann-Oceana 66



IV-35 (Rev 8-81)

State of Mest Birginin

Bepartment of Mines Bil und Gas Bivision

Date	uly 17, 1985
Operato	c's
Well No	. CNGD WN 1632
Pa	12 22 1
tarm C	harleston Nat'l Bank
API No.	A7 = 005 = 1458

FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL OPERATOR'S REPORT

/ Liquid Injection\_\_/ Waste Disposal Gas "Gas," Production X / Underground Storage / Deep Watershed LOCATION: Elevation: Pond Fork Quadrangle\_ District: Crook County Boone\_\_

COMPANY CNG Development Company P. O. Box 15746 Pittsburgh, PA 15244 DESIGNATED AGENT SURFACE OWNER Charleston Nat'l Bank MINERAL RIGHTS OWNER Charleston Nat'l Bank ADDRESS Trust Department, P. O. Box 1113 Charleston, WV 25325 OIL AND GAS INSPECTOR FOR THIS WORK Jerry Halcomb ADDRESS Rt. 1 Box 28 Hamlin, WV 25523 PERMIT ISSUED May 29, 1985 DRILLING COMMENCED June 3, 1985 DRILLING COMPLETED IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Static rock pressure

Caşing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16' Cond.	19	19	To Surf
11-3/4" 12x1xX	1102	1102	To Surf
9 5/8			
8 5/8	2902	2902	To Surf
7			
5 1/2			
4 1/2	4542	4542	200 sks
3			
2			
Liners used			

EDOLO:	ICAL	TARGET FORMAL	TON Weir			pebcu	4588Ieet
I	Depth	of completed	well _	ts Ufeet	Rotary	X / Cable Too	Ls
V	Water	strata depth:		11 feet;	Salt_	feet	
(	Coal :	seam depths:_	127 - 128	<del></del>	Is $\alpha$	oal being mined in	the area? No
OPEN 1		DATA Sing formation	709 - 711 1775 - 780 1675 - 1678	Berea Big Lime		Pay zone depth 43	45 - 48 07 - 20 feet
		Initial open	-	Mcf/d		Initial open flow	Bb1/d
		Final open fl	-	Mcf/d		Final open flow_	Bbl/d
		Time of	open flow be	etween ini	tial an	d final tests 4	_hours
i	Stati	c rock pressu	re 520	osig(surfa	ce meas	urement) after 1	hours shut in
	(If a	pplicable due	to multiple	completio	n)		
	Secon	d producing fo	ormation			_Pay zone depth	feet
	Ġas:	Initial open	flow	Mcf/d	Oil:	Initial open flow	Bbl/d
		Final open f	low	Mcf/d	Oil:	Final open flow_	Bbl/d
		Time of	open flow b	etween ini	tial ar	nd final tests	hours

psig(surface measurement) after

hours shut in

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

Gearhart Perforated Berea - 4345-48, 8 holes, Select Fire Big Lime - (3807-10, 6 holes

3818-20, 4 holes, Hollow Carrier

Dowell pumped 500 gal 15% HCL, followed immediately by pad then sand, Broke at 600# increased to 1200# @ 3#/gal, 20 BPM hydraulic line broke on blender, had to shut down. Put away 45,000# 20/40 Sand, J-266-450g., U-42-30g., M-17-17g., L-53-40g., F-75-40g. Dowell Frac Big Lime - Pumped 500 gal 15% HCL, 2200 gal Gel Acid, 500 gal 15% HCL, Dropped 6 balls, 2000 gals Gel Acid, Pumped 61 BBL Flush - Ran 180,000 N2 thru job, Max Tr.Pres. 2800#, Avg 2450, Immed. Shut In 1800#, 15 min Shut In 1600#, Avg 4 BPM thru job - HCL 15% - 500 gal, J-425 - 60 gal, J-144 - 6 gal, HCL 28% - 2000 gal, F-78 - 8 gal, A-250 - 6 gals, U-42 - 15 gal.

## WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOF	TOP FEET	BOYTOM FEET	Including indication of all fres and salt water, coal, oil and ga
			The same state of the same of
Sub Base	0	10	1/4" stream @ 111
Sand	10	127	•
Coal	127	128	Coal 127 - 128
Sand & Shale	128	523	523 - 528
Coal	523	528	709 - 711
Sand	528	709	775 - 780
Coal	709	711	
Sand & Shale	711	775	Open Mine 989 - 995
Coal & Shale	775	780	Coal 1219 - 1223
Sand & Shale	780	989	1675 - 1676
Open Mine	989	995	
Sand & Shale	995	1219	
Coal	1219	1223	
Sand & Shale	1223	1675	
Coal	1675	1676	
Sand & Shale	1676	3560	
Little Lime	3560	3677	
Lime	3677	4025	
Injun	4025	4709 Bo	05-
Injun	40,23		Les @TD
LOG TOPS			
Avis Lime	3112	3148	
U. Maxton	3262	3291	
Maxton	3325	3411	
L. Maxton	3562	3655	
L. Lime	3663	3733	
B. Lime	3748	4037	
Weir	4337	4350	
Berea	4561	4571	
berea	4501	73/1	
		]	
	}		
		75	

(Attach separate sheets as necessary)

CNG DEVELOPM				
Well Operat	or ex	·		
By: Jack	Whileh		- 2	
Date: July 17	7, 1985			

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including and, encountered in the drilling of a well."

FORN (V-2 (Obverse) 7-43		COPY		
77	MAN O	O 10:	05	73



1)	Date:	May	1,	1985	, 19
2)	Operator's Well No.		163	2	
3)	API Well No.	47	-(	05-1458	3
-,		State		County	Permit

File

ي ب	MAY	08 19	85				to Hearth Life		State	County	Permit
	1421.41		90			S	TATE OF WEST VI	RGINIA			
	OIL&	246 BD	richm at		DEPA		T OF MINES, OIL		ION		
	EPT.			pin			TION FOR A WELL				
									•		
4) V	VELL TYP										
									/ Deep	_/ Shallow	X/)
5) L	OCATION	N: Ele	vation:	27	50		Watershed:	Pond Fork		Lozado '	7 5
		Dis	trict:	UI	OOK	Compa	County:	воопе	Quadrangle;		7.3
6) V	VELL OPE	RATOR_	ONG DE	Commot	tent.	СОщра	ny 15746		Crosswind	Corporati	Dark
	Address						ox 15746	Address			
				ourgh,		13244			Box 698, Brid	igeport, (	WA 50220
	OIL & GAS				FIED			) DRILLING C		Dest 114 (	0.0
ħ	Name	D	rry Ha	#1,	Roy	28			Sam Jack I	NS DITITING (	<u>.0.</u>
	Address			WV 25		20		Address	Buckhannon		201
											201
10) F	PROPOSE	D WELL	WORK:						/ Stimulate	<u>x</u> /	
				Plug of	f old f	ormatio	n/ Perfora	te new formation	/		
						_	n well (specify)				
11) (	GEOLOG1	CAL TAR	GET FOR	MATION	, <u>Be</u>	rea					
13	2) Estima	ted depth (	of complet	ed well,	45	88	feet				
13	3) Approx	kimate trat	ta depths:	Fresh, _	15	36	feet; salt,		feet.		
1	4) Appro	kimate coa	ıl seam dep	oths:5.	37. 8	45, ]	.055 Is coa	l being mined in th	e area? Yes	/ No_	/
15) (	CASING A	ND TUB	ING PRO	GRAM							
	NG OR	-	SPEC	CIFICATION	S		FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACI	CERS
TUBI	NG TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	1	
Condu	ctor		1							Kinds	
Fresh v	vater	16					40	40	To Surface	By Rule	15.05
Coal										Sizes	
Interm	ediate	8-5/8	K-55	24	x		2900	2900	To Surface	By Rule	15.05
Produc	tion	4-1/2	J-55	10.5	x		4588	4588	200-400	Depths set	
Tubing		1-1/2	CN-55	2.75	×				<u> </u>	By Rule	15.01
Liners										Perforations:	
					1					Тор	Bottom
										1	
										ļ	
			`								
							OFFICE USE O	DNLY			
							DRILLING PE	RMIT			-
			005 1/	-0						Mars 20	19 85
Perm	it number_	4/-	005-14	58			_		Da	May 29	19 00
This	permit cov	ering the v	well operat	tor and we	ll locati	on show	n below is evidence of No.	of permission gran	ted to drill in accorda given to the District O	nce with the pe	rtinent legal re- lector. (Refer to
No. 8	ments subj	the constri	echannons ection of r	oads, loca	tions an	d pits fo	r any permitted work	In addition, the	well operator or his co	ntractor shall n	otify the proper
distri	ct oil and g	as inspect	or 24 hou	rs before a	ictual p	ermitted	work has commence	d.)			
Ther	sermitted v	ork is as o	described i	in the Noti	ce and	Annlicat	ion, plat, and reclams	ation plan, subject	to any modifications	and conditions	specified on the
	se hereof.				, , , , , ,	- Lpp://di	, , , , , , , , , , , , , , , , , , ,		•		•
Perm	it expires .	May	29,19	87			unless well	work is commence	ed prior to that date and	d prosecuted wit	th due diligence.
	·										
Po	nd.	Ann		Plat:	Casi	7.0	Fee				
В	nd:	Ago	nt:	riai.	Casi	IIg.	3.0-			. 1	
0	28 1	mi	1 L	2011	m	$U \mid \mathbb{I}$	8187 /	16	_ [ ()	1// .	
	-						7/	1 perce	art-1	XJask	2
							/ -	Ad	ninistrator, Office of	Oil and Gas	
	T. T.		- C +1-!		-1.45-	4-2112	contion	/ /			

NOTE: Keep one copy of this permit posted at the drilling location.