



IV-35 (Rev 8-81)

State of Mest Airginia

Bepartment of Mines Gil und Gas Bivision

	Date Ap		28	, 198	2		
ľ	Operator						
	Well No.	1-1854				_	
	Farm	T,	J,	John	son	Heirs	
	ADT No	47				0627	_

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal /						
(If "Gas," Production x / Undergro	ound Storag	e/ Deer	/ Sha	llow/)		
LOCATION: Elevation: 1815 Watershed	Coburn	Creek		-		
District: Clinton County Mon	ongalia	Quadrangle	Morgant	own-South		
CARNEGIE NATURAL GAS COMPANY	<u></u>	, · · · · · · · · · · · · · · · · · · ·		Cement		
ADDRESS 3904 MAIN ST., MUNHALL, PA. 15120	Caşing	Used in	Left	fill up		
DESIGNATED AGENT J. C. Stephenson, Div. Supt.	Tubing	Drilling	in Well	Cu. ft.		
ADDRESS PO Drawer No. 387, Mannington, WV 26582	Size					
SURFACE OWNER T.J. Johnson Heirs	20-16 Cond.					
ADDRESS PO Box 2266, Morgantown, WV 26505	13-10"		,			
MINERAL RIGHTS OWNER T.J. Johnson Heirs	9 5/8			11.0		
ADDRESS PO Box 2266, Morgantown, WV 26505	8 5/8	536	536	150 sacks surface		
OIL AND GAS INSPECTOR FOR THIS WORK William Rt. #4 - Box 317	7	·				
Blosser ADDRESS Fairmont, WV 26554	5 1/2					
PERMIT ISSUED July 10, 1981	4 1/2	5130	5130	3130'		
DRILLING COMMENCED October 10, 1981	3]	IN IN	7777		
DRILLING COMPLETED October 17, 1981	2					
IF APPLICABLE: PLUGGING OF DRY HOLE ON			MAY -	3 1982		
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used		OIL AND C	AS DIVISION MENT OF MINES		
ON			WV DEPART	NENT OF MINES		
GEOLOGICAL TARGET FORMATION Devonian S	hale	Dep	th 59	990feet		
Depth of completed well 5971 feet	Rotary X	/ Cable	e Tools_			
Water strata depth: Freshfeet;	Salt	feet				
Coal seam depths: 55-60	_ Is coal	being min	ed in the	area? No		
OPEN FLOW DATA			4506	5016		
Producing formation Cedar Ck., Alexander,		v zone dep	4506-5 4051-4			
Gas: Initial open flow Mcf/d		itial open		Bbl/d		
Final open flow Mcf/d		nal open f		Bb1/d		
Time of open flow between ini		•		outrs		
Static rock pressurepsig(surfa	ce measure	ment) afte	r hou	urš shut in		
(If applicable due to multiple completion	n)					
2nd Kane & I Second producing formation Speechley & 1s	Riley: Warr	^{en} , y zone de p	3495- 2498-			
Gas: Initial open flow 53.7 Mcf/d						
Final open flow 73 Mcf/d			-	Bb1/c		
Time of open flow between in		_				
Static rock pressure 410 psig(surface						
<u></u>		(Conti	m10 0m m	everse side		

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Filled up to 5130'.

Perforations: 8 holes, 4506-5016. Fractured 2nd Elk and Haverty, 4506-4508, 5012-5016, 500 gals. HCL acid, 444 bbls. water, 10,000# 80/100 and 40,000# 20/40 sand.

Perforations: 14 holes, 4051-4380. Fractured Cedar Creek, Alexander and 1st Flk, 4051-4167, 4258-4301, 4374-4380, 500 gals. IHCL acid, 504 bbls. water, 10,000# 80/100 and 50,000# 20/40 sand.

Perforations: 13 holes, 3495-3863. Fractured 2nd Kane and Riley, 3495-3502, 3650-3651, 3820-3863, 500 gals. ECJ. acid, 421 bbls. water, 10,000# 80/100 and 40,000# 20/40 sand. Perforations: 14 holes, 2498-2750. Practured Warran, Speechley and 1st Balltown, 2498-2501, 2537-2539, 2634-2635, 2740-2750, 500 gals. HCL acid, 474 bbls. water, 10,000# 80/100 and 50,000# 20/40 sand.

WELL LOG

	[1		REMARI	KS		
FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	Including	indicat	tion	of all	fresh
10141112011 002011				and salt w	ater, c	coal,	oil a	ind gas
Sand	White	0	50					
Shale	Gray	50	55				•	
Coal	Black	55	60					
Shale	Gray	60	65					-
Sand	White	65	130					
Shale	Gray	130	140					
Sandy Shale	Black	140	165					
Sand	Light brown	165	235					
Shale	Gray	235	240					
Sand	Brown	240	250					-
Shale	Gray	250	260					•
Shale	Black	260	280					*.
Sand	L. Brown	280	290					
Sand	Green	290	335		•			÷.
Shale	Gray	335	345					Ţ.,
Red Rock	Red	345	360					<i>3</i> 2. •
Shale	Gray	360	450					
Red Rock	Red	450	470					
Sand	Gray	470	565					
Shale	Gray	565	585					
Red Rock	Red	585	595					
Sandy Shale	Gray	595	635					
Lime	L. Brown	635	690					
Injun	Gray	690	746					
Red Rock	Red	740	745					
Sand	Gray-white	745	880					
Shale	Gray	880	910					
Sand	Brown	910	1060					
Shale	Gray	1060	1485					
Red Rock-Shale	Red-gray	1485	1500					
Shale	Gray	1500	1550					
Red Rock-Shale	Red-gray	1550	1650					
Sand and Shale	Brown-gray	1650	5730]				
Shale	Brown	5730	1					
Total Depth			5971	1				

(Attach separate sheets as necessary)

Carnegie Natural Gas Company Well Operator Henneth S. Buna April 28, 1982 Date:

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 earl, encountered in the drilling of a well."



DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION 1 10 198

Charleston, W. Va. Surface Owner T.J. Johnson Heirs Address Same Mineral Owner Same Coal Owner Upper Presport Coal - Coal Co. Address Pittsburgh, Pa. All other coal - Same District Morgantown-South	Acres 1400
Surface Owner T.J. Johnson Heirs Address Same Mineral Owner Same Address Coal Owner Toper Presport Coal Co. Address Well No. Address District Morgantown-Southern Coal Co. Address District Morgantown-Southern Coal Co. District Morgantown-Southern Coal Co. Morgantown-Coal	11, Pa. 15120
Address Same Mineral Owner Same Address Farm T. J. Johnson Coal Owner Upper Presport Coal Co. Address Well No. Address District Morgantown-Sou	11, Pa. 15120
Address Same Mineral Owner Same Address Farm T. J. Johnson Farm Coburn Creek Location (waters) Coal Owner Upper Freeport Coal Co. Address Pittsburgh, Pa. District Morgantown-Sou	11, Pa. 15120
Mineral Owner	Acres 1400
Address Column Creek Coal Owner Upper Presport Coal Co. Well No. 1-1851 Address Pittsburgh, Pa. District Morganitown-Sou	_Acres
Coal Owner Pittsburgh, Pa. Address District Morganitown-Sou	
Address Pittsburgh, Pa. District Morgantown-Sou	20264
Address District District District	Elevation1815
Coal Country All other coal - Surface Owner away away	County Menongal
Coal Operator Quadrangle Quadrangle	<u> </u>
Address POSTED AT THE WELL SITE	
Address THIS PERMIT MUST BE POSTED AT THE WELL SITE All provisions being in accordance with Chapter 22, All provisions being in accordance with Chapter it shall expire if	ž.
All provisions being in accordance with Chapter All provisions being in accordance wi	
All provinces possess the location is the axpire if	•
of the This permit show INSPECTOR	
for drilling 3-14-82 TO BE NOTIFIED	··
for drilling 3-14-82 TO BE NOTIFIED ADDRESS Rt. A. Box 317, Fairmo	nt, WV 26554
ADDRESS	
Deputy Director - Oil & Gas Division PHONE PHONE	
GENTLEMEN:	
The undersigned well operator is entitled to drill upon the above named farm or tract of land for o	oil and gas, having fee
title thereto, (or as the case may be) under grant or lease dated	an value
CANIA Temphone Bada CAPBER	
19 in County, Book Page	: day or
· · · · · · · · · · · · · · · · · · ·	
NEW WELLDRILL DEEPERREDRILLFRACTUR	E OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.	
The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal own have been notified as of the above date.	ners and/or operators
The above named coal owners and/or operator are hereby notified that any objection they wish to reto make by Section 3 of the Code, must be received by, or filed with the Department of Mines within	make, or are required ten (10) days. *
Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above	named coal onerators
or coal owners at their above shown respective address day day	before or on the
same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginian Charleston, West Virg	ginia.
Very truly yours,	
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: (Sign Name)	Company
GEOPHYSICAL LOGS DIRECTLY TO: (Sign Name) Well Operator	v. Supt.
WEST VIRGINIA GEOLOGICAL AND 390k Main Street	
ECONOMIC SURVEY Address Street	
P. O. BOX 879	
MORGANIOWN, WEST VIRGINIA 20005	
AC-304 - 292-6331	••
Pennsylvania 151	20
State	
*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten d	laus from the receipt of
notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well of the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and and the well operator authorized to proceed.	perator a permit reciting
47 - 061 - 0627	
47 - VOI - VOZ	PERMIT NUMBER
"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."	

Signed by _

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	DRILL	DEEPEN F	RACTURE-STIMILATE			
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT: NAME J. C. Stephenson				
NAME S. W. Jack Drill:						
ADDRESS PO Box 48, Buckhe TELEPHONE 304 - 472	annon, Ww 26201 - 9403	ADDRESS PO Drawer	No. 387, Mannington, W - 986 - 2060			
ESTIMATED DEPTH OF COMPI			CABLE TOOLS			
PROPOSED GEOLOGICAL FOR			CABLE TOOLS			
			E DISPOSAL			
	RECICL	ING WATER FLO	OODOTHER			
TENTATIVE CASING PROGRAM	M :					
OLONG LIVE THE						
*CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN	CEMENT FILL UP			
20 - 16	DRILLING	. WELL	OR SACKS - CUBIC FT.			
13 - 10 11-3/1n	301		:			
9 - 5/8	3					
8 - 5/8		5001				
7		300	To surface			
5 ½						
4 ½		59901	2000 feet			
3			Perf. Top			
2		The second secon	Perf. Bottom			
Liners ,			Perf. Top			
			Perf. Bottom			
SO TEXT: SO DRILL DEEPER OR REDRIL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE OF FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM	L: OF OG - 1, SHOWING ORIGION 1929, A PERMANENT COD. RIGINALLY DRILLED BEFO AND ORIGINAL WELL RECRIGINALLY DRILLED ON AND MBER, AND PERFORMANCE	INAL PERMIT NUMBER AND TOPY OF THE PLAT AND TO REJUNE 5, 1929, FIVE (5) COORD. ND/OR AFTER JUNE 5, 1929 BOND.	DND AND PERMANENT COPY D PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE D, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty			
VAIVER: I the undersigned, Agen this lease have examined We the	e completed by the coal ope of for d and place on our mine ma — Coal Company h	rator if the permit is to be is Coal Company, Owner aps this proposed well location have no objections to said we	or Operator of the coal under on. Il being drilled at this location, Chapter 22 of the West Vir			
			Coal Company			
			Official Title			

And the second