5-6 CENTRAL STATION 91

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

Dates October 30 , 19 7

Operator's Hurst #1

FORM IV-35 (Obverse)

[08-78]

APT	We?	2073	. 7	017

WELL OPERATOR'S REPORT 7
OF API Wel No. 47 - 017 - 2497
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE:				quid Injection_			
							- 3hailow/
LOCATION:				Watershed:			
					Take of the endings	ayynd yw Miled Air 📆	Nest Union 7½
							s Frederick
Addres	Box_	610			Address	Box 1	.3
	Green	wich. (	CT 068	830		Nobe	W 26158
PERMITTED W	ORK: Drill	<u>X</u> / c	onvert _	/ Drill dee	per/ Re	drill	mant are or outrolly
				Perfor		principle (Control)	
	Other	physical	change	in well (specii	`y )	mantanus Mari namatan managapapapan magamini dan agamin an manah s	and the second s
				entre de la companya	nicon el la marantecamenta de la composição		IL & GAS DIVISION  TO BE MINUTED
				19 79	OIL & GAS II		
CONTI	ABLE: PLUG NUOUS PROGRI	ESSION PRO	OM DRILL:	ING OR	Name <u>Paul</u>		ranno da communicación de la companión de la co
	KING. VERB			AINED			Street
							, WV
							4-2016 "ee-
				feet Ro		Cable Tools	
				Is coal h		the anase M	
						4	26
							ta at an a man m m n n n n n n n n n n n n n
CASING AND							
CASING OR TUBING TYPE	Size Gra	ECIFICAT:  Weight	IONS Us	FOOTAGE sed For drillin	INTERVALS	OEMENT FILL- OR SACKS 1 (Subic feet)	
Canductor							Kinds
Fresh water	8 5/8 C	W 22	X	243	243	80 sks	Class A Neat
Ccal							Sizes
Intermediat	<u>e</u>		<del>  -   -   -   -   -   -   -   -   -   -</del>				
Production	4 4 CW	- indicate and the same of the			2357	125 sks	3
Tuting	1'' SM		X		2225		
Liners							Perforations:
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OPEN FLOW DA		77					1010 1000
							1910-1922
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				oletion)		FARM	
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				Mc f'/d			The second secon
,			ACCOUNTS OF THE PARTY OF THE PA	D Mc1705			musicity,
				A STATE OF THE PROPERTY OF THE			
St	atic rock p	ressure,	1000	psig (surface	measurement)	after 24 tic-	urs shut in NOV 26 1979

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

Weir - Perforated Intervals 2174-2180 5 holes Fraced with 342 bbls water and 2195-2199 4 holes 28,000# sand and 50,000 SCF N2 2248-2256 6 holes 2267-2276 6 holes

Injun & Keener - Perforated Intervals
Fraced with 340 bbls 1920-1928 8 holes
water and 24000# sand and 1993 1 hole
50,000 SCF N<sup>2</sup> 1995 1 hole
1997 1 hole

2006-2014 8 holes

WELL LOG

	71		<del></del>		<u> </u>
FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks including indication of all frest and sait water, soal, cil and as
Soil Sand & Shale Shale Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Lime (little) Lime (big) Sand (Keener) Sand (Injun) Shale Sand (Weir) Shale	Brown Black Black Black White Black White Black White Black White Black White White White White White Black White Black White Black Black Black Black Black	Soft Soft Soft Soft Hard Soft Soft Soft Soft	1952 2016 2172	15 1020 1215 1280 1370 1390 1478 1558 1605 1620 1685 1700 1715 1815 1856 1914 1952 2016 2172 2295 2367	
TD	To the second se	- A Control of the Co		2367	
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(Attach separate sheets is complete as entracted

Industrial Gas Associates

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Its Agent

N TE: Regulation 1.0: 1. reoriden an follows:

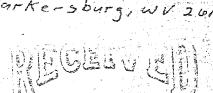
"The term 'lag' or 'sell log' shill mean a bystematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

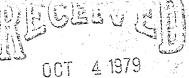


WEST VIRGINIA

DEPARTMENT OF MINES

## Oil and Gas Division





## OIL AND GAS WELL PERMIT APPLICATION OIL & GAS DIVISION DEPT. OF MINES

DATE October 3, 1979
Company Industrial Gas Associates
Address Greenwich, CT 06830
Farm Hurst Acres 94
Location (waters) Long Run
Well No. 1 Elevation 975
District Central County Doddrid
Quadrangle West Union 7 1/2
INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS 320 Beach St., Clarksburg, WV
PHONE 622-3871
PHONE 022-30/1
the above named farm or tract of land for oil and gas, having fee
se dated July 17 1979 by Gladys
ices and recorded on the 20 day of July
Page 368
REDRILLFRACTURE OR STIMULATE
LED BEFORE JUNE 5, 1969.
BEN ONE COME OF THE STATE OF TH
er or licensed land surveyor and all coal owners and/or operators
by notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *
by registered mail, or delivered to the above named coal operators
day before, or on the
Department of Mines at Charleston, West Virginia.
Very truly yours, flew Custung
(Sign Name) Industrial Gas Associates
(Sign Name) Industrial Gas Associates Well Operator
Well Operator P.O. Box 1610  dress Street
Well Operator P.O. Box 1610  ddress Street
Well Operator  P.O. Box 1610  Idress Street  of Operator Greenwich
Well Operator  P.O. Box 1610  Idress Street  of Operator Greenwich City or Town
Well Operator  P.O. Box 1610  Idress Street  of Operator Greenwich

\*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BARWET BO

017-2497

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

PROPOSED WORK ORDER TO	X DRILL	DEEPEN	FRACTURE-STUMULATE	
DRILLING CONTRACTOR: (II	Known)	RESPONSIBLE AGENT:		
NAME Gene Stalnake	<u> </u>	NAME Dallas Frederick		
ADDRESS Letter Gap, W	The state of the s	ADDRESS Nobe, W	V	
TELEPHONE 462-7092	The state of the s	TELEPHONE 354-7	484	
ESTIMATED DEPTH OF COMPL	ETED WELL: 2700		CABLE TOOLS	
PROPOSED GEOLOGICAL FORM				
TYPE OF WELL: OIL_	X GAS	COMB. STORAG	E DISPOSAL	
			OOD OTHER	
INCOME A PRIVATE OF CALCULAR AND A PARTY OF CALCULAR A				
TENTATIVE CASING PROGRAM				
CASING AND TUBING	USED FOR	LEFT IN	CEMENT LILL UP	
SIZI	DRILLING	WFLI.	OR SACKS - CUBIC 1-T.	
20 - 16	TO SERVICE THE PARTY OF THE PAR			
9 - 5/8	and the supplement of the supp			
8 - 5/8	240	2/.0		
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72		2700	125 che	
2	and the wind of the contract o	and the state of t	Perf. Top	
			Perf. Bottom	
	The second secon		Perf. Top Perf. Bottom	
APPROXIMATE FRESH WATER	DEPTHS 80 PERT	CALM WARRA		
APPROXIMATE COAL DEPTHS	7.17			
IS COAL DEING MADES IN THE	WOLLE	The same same was supply to the same same same same same same same sam		
IS COAL BEING MINED IN THE	AREA? No	BY WHOM?		
TO DRILL:				
SUBMIT FIVE (5) COPIES ( OF PLAT.	OF OG - 1, \$100.00 PERMI	T FEE, PERFORMANCE B	OND AND PERMANENT COPY	
TO DRILL DEEPER OR REDRILI				
WELLS ORILLED PRIOR TO	F OG - 1, SHOWING ORIGI	NAL PERMIT NUMBER AN	D PERFORMANCE BOND. ON	
MUST ALSO BE SUBMITTED	O 1929, A PERMANENT CO O.	OPY OF THE PLAT AND T	THE ORIGINAL WELL RECORD	
O FRACTURE - STIMULATE:				
바퀴 교육	POTATAL VALUE VALU			
BOND, PERMANENT PLAT	IGINALLY DRILLED BEFOI AND ORIGINAL WELL BEC	RE JUNE 5, 1929, FIVE (5) (	COPIES OG - 1, PERFORMANCE	
			9, FIVE COPIES OG - 1, SHOW-	
ING ORIGINAL PERMIT NUM	BER, AND PERFORMANCE	BOND.	9, FIVE COPIES OG - 1, SHOW-	
			Inspector to be notified twenty-	
four (24) hours in advance.	with amery (50) days of C	ompiction for bond release.	inspector to be notified twenty-	
	A tild tilde mennt i Straken Att i den staten staten staten mer med speker province staten men speker province Det staten s	debased 1 to 12 (a) 1 (a	namental al sur a l'époner l'ant de la comment	
및 경영 시간 100명 (1995년) 1973년 - 전 1985년 11일 (1995년)				
The following waiver must be nereof.	completed by the coal oper	rator, if the permit is to be i	ssued within ten days of receipt	
VAIVER: I the undersigned, Agent	for	Coal Company, Owner	or Operator of the coal under	
	I and place on our mine ma			
We the	Coal Company h	have no objections to said wo	ll being drilled at this location,	
providing operator has co	mpiied with all rules and regu	lations in Articles 4, 5, and 7	, Chapter 22 of the West Virginia	
		lio	r Coal Company	
		The state of the s		
			Orficial Title	