

March 17 , 19 8 Date STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION Operator's PORM IV-35 Well No. A.E. Pratt #1 (Obverse) WELL OPERATOR'S REPORT 3 * API Wel No. 47 - 095 - 075 CHANGE State County Permi [08-78] DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE LL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal / (If "Gas", Production X / Underground storage / Deep / Shallow /) Elevation: 760 Watershed: Middle Island Creek CATION: District: Centerville County: Tyler Quadrangle: West Union 7 1/2 LL OPERATOR <u>Industrial Gas Associates</u> DESIGNATED AGENT Dallas Frederick Address Box 1610 Address Box 13 Greenwich, CT 06830 Nobe, WV 26158 RMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fraction or sutal. Plug off old formation / Perforate new formation / ... 1930 Miles Other physical change in well (specify) OF & CAS DIVISION OIL & GAS INSPECTOR FOR THE FORES MINES RMIT ISSUED ON January 3 , 19 80 (F APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Name Phillip Tracey Address Rt. 23 Alam, WV 26320 ___, 19 Depth _____feet EOLOGICAL TARGET FORMATION: Berea Depth of completed well, 2209 feet Rotary X / Cable Tools Water strata depth: Fresh, 80 feet; salt, N/A feet. Coal seam depths; N/Z Is coal being mined in the area? No Work was commenced January 14 , 1980 , and completed January 18 , 1980 SING AND TUBING PROGRAM SING OR BING TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILL-UP OR SACKS (Cubic feet nductor Kinds 8 5/8 CW esh water X 241 241 80 sks Class A Neat 31 stermediate 4 1/2 Depths set 2152 roduction 10.51xCW 2152 125 sks SML 4.0 X iting 2025 Perforations: hers Top Bottom 610MCF+4B0PD PEN FLOW DATA Producing formation __ Fay zone depth 1981-2074 feet Weir Gas; Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d Final open flow, 210 Mcf/d

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

	, -,	ing on 31	THOUMITMO,	PHYSICAL C	HANGE, ETC.	
Weir - Fraced with 3	55 bbls wat	er, 28	,000#	Perfora	ated Inte	rvals:
sand and 55,0	00 SCF N ²			1981-86	5 5	holes
•				2001-06	5 4	holes
1				2042-44	1 2	holes
				2049-5	L 2	holes
				2054-60	6	holes
				2062-66	5 4	holes
				2070-74	4	holes
Keener & Injun - Fra	ced with 27	8 bbls	water			
28,000# sand and 55,						
Perforated Intervals	: 1726-34	9	holes	1792-97	7 5	holes
·	1762	1	hôle	1802-06	5 4	holes
WELL LOG	1768	1	hole	1813-	1	hole
	1779-88	7	holes	1819-24	5	holes
	На	rd or	19 5	Data		Remarks

	1779-	88	7 holes	1819-24	5 holes
FORMATION	Color	Hard or Soft	%g Top Feet	Bottom - Feet	Remarks Including indication of all free and salt water, coal, oil and call
Soil Sand & Shale Sand - 1st Cow Run Shale Sand - 2nd Cow Run Shale Sand - 1st salt Shale Sand - 2nd salt Shale Sand - 3rd salt Shale Lime-Big Sand - Keener Sand - Injun Shale Sand - Weir Shale Sand - Weir Shale Sand - Berea Shale	brown brown white black black black black black black black		0 15 852 870 902 935 1170 1266 1292 1345 1365 1430 1644 1718 1750 1828 1976 2086 2173 2182	15 852 870 902 935 1170 1266 1292 1345 1365 1430 1644 1718 1750 1828 1976 2086 2173 2182 2209 2209	
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(Attach separate sheets to complete as necessary)

Industrial Gas Associates
Well Operator

Agent

NOTE: Regulation 2.02(i) provides as follows:

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



STATE OF WEST VIRGINIA

DECELVED

DEPARTMENT OF MINES

Oil and Jas Division

OIL & GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,				
Charleston, W. Va.	DATE December 28, 1979			
Surface Owner Edwin Mulvay	_ Company Industrial Gas Associates			
Address Star Route, West Union, WV	Address Greenwich, CT			
Mineral Owner Edwin Mulvay				
Address Star Route, West Union, WV				
/-				
N/A	~ · · · · · · · · · · · · · · · · · · ·			
Address				
Coal Operator N/A N/A	Quadrangle West Union 7 1/2			
Address				
THIS PERMIT MUST BE POSTED AT THE WELL SITE				
All provisions being in accordance with Chapter 22,				
of the W. Va. Code, the location is hereby approved	INSPECTOR			
for drilling . This permit shall expire if	TO BE NOTIFIED Phillip Tracey			
operations have not commenced by 9-3-80	ADDRESS Box 173, Dodd St., Middlebourne			
Total I	PHONE _758-4573			
Deputy Director - Oil & Gas Division GENTLEMEN:	<u>//36-43/3</u>			
	the above named farm or tract of land for oil and gas, having fee			
	e dated August 18 19 79 by Edwin and			
	•			
	Ces and recorded on the 12 day of Octobe			
19_79 in Tyler County, Book21				
X NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE			
OIL AND GAS WELL ORIGINALLY DRILL	ED BEFORE JUNE 5, 1969.			
have been notified as of the above date.	r or licensed land surveyor and all coal owners and/or operators			
The above named coal owners and/or operator are hereb to make by Section 3 of the Code, must be received by, or	by notified that any objection they wish to make, or are required r filed with the Department of Mines within ten (10) days. *			
or coal owners at their above shown respective address	by registered mail, or delivered to the above named coal operators day before, or on the			
same day with the mailing or delivery of this copy to the I	Jepartment of Mines at Charleston, West Virginia.			
DI PAGE CURVEE CORTEG OF ALL	Very truly yours, Industrial Gas Associates			
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) By: Why (us hung			
A second to the	Well Operator			
WEST VIRGINIA GEOLOGICAL AND	_Box/1610			
ECONOMIC SURVEY Add	ress Street			
P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 Well Op	Connection in the control of the con			
AC-304 - 292-6331	City or Town			
	Connecticut			
	State			
notice and plat by the department of mines, to said proposed location	e Department of mines, within said period of ten days from the receipt of on, the department shall forthwith issue to the well operator a permit reciting operators or found thereto by the department and that the same is approved			
The second secon	47-095-0757			
	47-095-0757 ———————————————————————————————————			
"I have read and understand the reclamation requirements as se	t forth in			
Chapter 22. Article 4, Section 12-b and will carry out the specified requ	irements."			

BLANKET SONO

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

PROPOSED WORK ORDER TO	X DRILL	DEEDEN	DEEPEN FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If Known)		RESPONSIBLE AGE				
NAME Gene Stalnaker,	•		NAME Dallas Frederick			
ADDRESS Box 9, Letter Gap, WV			ADDRESS Box 13, Nobe, WV			
TELEPHONE 462-7092	\		TELEPHONE 354-7484			
ESTIMATED DEPTH OF COMPLE	ETED WELL 2600		_ CABLE TOOLS			
PROPOSED GEOLOGICAL FORM		. ROTART	CABLE TOOLS			
		COMB X STORA	GEDISPOSAL			
	RECTO	LINGWATER F	LOODOTHER			
TENTATIVE CASING PROGRAM	:					
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP			
SIZE	DRILLING	WELL.	OR SACKS - CUBIC FT.			
20 - 16	and the second section of the section o					
9 - 5/8	The second section of the section of the second section of the section of the second section of the secti					
8 - 5/8	240	240	Circ.			
7 5 ½	and many size (a.e. size) references of a constitutional references reference experiences of the constitution of the constitut	The second secon				
	The second secon					
		2600	124 sks.			
3			Perf. Top			
Linard		an Addition to the Control of the Co	Perf. Bottom			
Lineis	Profile designation and a second of the seco	The second secon	Perf. Top Perf. Bottom			
		and the second s	Terr. Bottom			
APPROXIMATE FRESH WATER	DEPTHS 80 FEET	SALT WATE	RFEET			
APPROXIMATE COAL DEPTHS _	N/A	1				
IS COAL BEING MINED IN THE	AREA? NO	BY WHOM?				
IS COAL BEING MINED IN THE	에 의 기계 등 기계					
TO BRILL:						
OF PLAT.	OF OG - 1, \$100.00 PER	MIT FEE, PERFORMANCE	BOND AND PERMANENT COPY			
TO DRILL DEEPER OR REDRILL						
SUBMIT FIVE (5) COPIES O	FOG - 1, SHOWING ORI	GINAL PERMIT NUMBER.	AND PERFORMANCE BOND. ON			
WELLS DRILLED PRIOR TO	D 1929. A PERMANENT	COPY OF THE PLAT ANI	THE ORIGINAL WELL RECORD			
MUST ALSO BE SUBMITTED) ,					
TO FRACTURE - STIMULATE:						
OIL AND/OR GAS WELL OR	IGINALLY DRILLED BEF	ORE JUNE 5, 1929 FIVE (5) COPIES OG - 1, PERFORMANCE			
BOND, PERMANENT PLAT	AND ORIGINAL WELL R	ECORD.	of the other other.			
OIL AND/OR GAS WELL OR	GINALLY DRILLED ON	AND/OR AFTER JUNE 5. 1	929, FIVE COPIES OG - 1, SHOW-			
ING ORIGINAL PERMIT NUM	BER, AND PERFORMANC	E BOND.	220, FIVE CONTES OG - 1, SHOW-			
Required forms must be filed	within ningter (00) days					
four (24) hours in advance.	within ninety (90) days of	completion for bond releas	e. Inspector to be notified twenty-			
	ar strandspagner i gatter					
		· ,				
			.			
The following waiver must be	completed by the seal of					
the following warver must be chereof.	completed by the coal o	perator if the permit is to b	e issued within ten days of receipt			
WAIVER I the undersigned Agent	r _{a.}	0.10				
this less have examined	lord at	Coal Company, Owr	ner or Operator of the coal under			
		maps this proposed well loo				
We the	Coal Company	have no objections to said	well being drilled at this location,			
providing operator has co	aplied with all rules and re	egulations in Articles 4, 5, an	d 7, Chapter 22 of the West Virginia			
Code.						
			For Coal Company			
		· ·	ч от соатсопірану			
			Official Title			