Log / Card / CSD/ LATITUDE 39 (15') 39 4.995 0.72W A. E. Pratt S 66 .00 E BRADFORD DEEP VALLEY 172 LEGEND OWNERSHIP ===== Road No coal mined in this vicinitu - County Line Surface: W. Paul McGutchan. Note: - Description taken - Surveyed Line West Union, W.Va. from deed from Hattie Line plotted from deed Minerals: 1/2 W. Paul McCutchan Bradford to W. Paul McChut-WellLocation O 1/2 Hattie Bradford chan, dated May 20 1943. Recorded in Deed Book No. 14, page 9 Minimum Error of Closure | in 200 Source of Elevation USGS elev. at Deep Valley = 750' I, the undersigned, hereby certify that this map is correct to the best of my know-ledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia. Fracture..... New Location..... Drill Deeper..... Signed: Map No. Abandonment..... Squares: STATE OF WEST VIRGINIA Company INDUSTRIAL GAS ASSOCIATES DEPARTMENT OF MINES Address _ P.O. Box 1610. Greenwich. Conn. OIL AND GAS DIVISION CHARLESTON Farm Hattie Bradford Acres 110 Lease No. Tract_ WELL LOCATION MAP Well (Farm) No. One Serial No. Elevation (Spirit Level) _950 FILE NO. 47 -095-0676 Quadrangle West Union 71/2 15' + Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by District Centerville County Tyler MAHOUS Engineer____ Engineer's Registration No. 1227 border lines as shown. _Drawing No._ - Denotes one inch spaces on border line of original tracing. Date Dec. 3, 1978 _Scale _1": 1000' TRASCO 200 8-78 MC 8298. 2500 DEC 28 1978

Wilbur



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

APR 2 6 1979

Oil and Gas Division WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

			WELL	RECORD		-	Oil
Quadrangle We	st Unic	on 7 1/2					Gas CombX
Permit No. <u>47-095</u> -0676							Storage
Permit No. 41	<u>-095</u> -06	0/6	•			Disposal	_
						= 10p 0 3u1	(Kind)
Company Ind	ustrial	l Gas Associat	es	Cosing and	., ,		
Address Box 16	10 Gree	enwich, Conn.	06830	Casing and	Used in	Left	Cement fill up
Farm Hattie	Bradfo	ord Ac	res_110	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Location (waters) Arno	olds Creek		Size			
Well No. 1		Ele	ev. 950	20-16			
District Center	ville	County_Tyle	r	Cond.			
		ned in fee by		13-10"			
Paul Mc	Cutchar	1		9 5/8	<u> </u>		
Address Box	8, Wes	st Union, W.V.		8 5/8	228'	228'	125 Sks
Mineral rights are	e owned 1	by Paul McC	utchan	7			
		ox 8, West Uni		5 1/2	·		
		12/20/78		4 1/2	2466	2466	225 Sks
Drilling Complete	ed	1/11/79		3			
Initial open flow	Show	cu. ft	bbls.	2			
Final production	600,00	10 cu. ft. per day _	_5bbls.	Liners Used			
Well open5		_hrs. before test_	800 RP.				
Well treatment d	etails:			Attach copy of	cementing rec	ord.	
17-2	D 1	1 1.1 0/7 77					
well -	rraceo	I WIEN 347 BBL	<u> S water -</u>	17,000# sand			
Injun	- Frace	ed with 314 BB	LS water -	- 27,000# sand			
					*		
							•
Coal was encount	tered at	None	F6	eet	Inch	es	
Fresh water	40	Fee	et	Salt \	Vater		Feet
Producing Sand	Weir	& Injun		Depti	1666	- 2060	
					<u> </u>		
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas o	r Water *	Remarks
Soil	Brown	Soft	0	10			
Sand & Shale	Brown	Medium	10	834			
lst Cow Run	White	Hard	834	862			
Shale	Black	Soft	862	882			
2nd Cow Run	White	Hard	882	928			
Shale	Black	Soft	928	1200			:
Sand	White	Hard	1200	1248			
Shale	Black	Soft	1248	1350			
Sand	Brown	Soft	1350	1402			
Shale	Black	Soft	1402	1594			
Big Lime	White	Hard	1594	1666			
Big Injun Shale	White Black	Hard	1666	1792			
Weir	Black	Soft	1792	1944			
Shale	Black	Hard Soft	1944	2060			
60' sand	DIGCK	3011	2060 2135	2135			
Shale		ļ	2135	2145			
.D.			£14.)	2466 2466			
				2400			
		İ					
						+66 :60	
				1	<i>~</i> √ <i>(</i>)	1017	





DEPARTMENT OF MINES

Oil and Gas Division E. .. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE November 26, 1978
Surface Owner Paul McCutchan	Company Industrial Gas Associates
Address P.O. Box 8, West Union, WV	
Mineral Owner Paul McCutchan	
Address Same	
Coal Owner N/A	Well No. 1 Elevation 950
Address N/A	District Centerville County Tyler
Coal Operator N/A	•
Address N/A	
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 <u>drilling</u> . This permit shall expire if	TO BE NOTIFIED Phillip Tracy
operations have not commenced by 4-6-79	ADDRESS Box 173, Dodd St., Middlebourn
Nobert & loss	PHONE 758-4573
Deputy Director - Oil & Gas Division	FHONE 150-4515
GENTLEMEN:	
The undersigned well operator is entitled to drill upon t	the above named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or lease	
McCutchan made to Petroleum Servic	es and recorded on the 27 day of Nov.
19 78 in Tyler County, Book 211	Page
XX NEW WELLDRILL DEEPER	REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILL	
The enclosed plat was prepared by a registered engineer have been notified as of the above date.	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	y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed be or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the I	by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia.
DI FACE CIRMITE CODIEC OF ALL	Very truly yours Industrial Gas Associates
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Har Cuelly
WEST VIRGINIA GEOLOGICAL AND	Vicin Operator V
ECONOMIC SURVEY Adda	Sticet
P. O. BOX 879 MORGANTOWN WEST VIRGINIA 26505 Well Op	
MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	City or Town
	Conn. 06830
	State
notice and plat by the department of mines, to said proposed location	Department of mines, within said period of ten days from the receipt of a, 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 same is approved.
BLANKET BOMD	47-095-0676 PERMIT NUMBER
	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 O	ORDER TO XX DRILL	DEEDEN E	D A CENTINAL COMPANYA A MARI			
DRILLING CONTRAC	CTOR: (If Known)		RESPONSIBLE AGENT:			
NAME Gene Sta	lnaker, Inc.		NAME Dallas Frederick			
ADDRESS Letter		A contract of the contract of	ADDRESS Box 13, Nobe, WV			
TELEPHONE 462-	7092		TELEPHONE 354-7484			
	OF COMPLETED WELL: 2500	ROTARY XX	CABLE TOOLS			
PROPOSED GEOLOGI	CAL FORMATION: Berea	·				
TYPE OF WELL:	OIL GAS	COMB. XX STORAGE	DISPOSAL			
		CLING WATER FLO				
TENTATIVE CACTO						
TENTATIVE CASING	PROGRAM:	•	į			
CASING AND TUBE	CASING AND TUBING USED FOR		CEMENT FILL UP			
20 - 16	DRILLING	WELL.	OR SACKS - CUBIC FT.			
13 - 10						
9 - 5/8						
8 - 5/8	230	230	Cir			
7						
5 ½ 4 ½	2500		Committee of the second of the			
3	2500	2500	125 Sks			
2		The Report of the State of the	Perf. Top			
Liners		Carry & Magter Company 2 32	Perf. Top			
			Perf. Bottom			
APPROXIMATE FRESI	H WATER DEPTHS 100 FEE	TSALT WATER_	FEET			
The second second	DEI 111013/ A					
IS COAL BEING MINI	ED IN THE AREA? No	BY WHOM?				
TO DRILL:						
SUBMIT FIVE (5 OF PLAT) COPIES OF OG - 1, \$100.00 PER	RMIT FEE, PERFORMANCE BO	ND AND PERMANENT COPY			
TO DRILL DEEPER O	R REDRILL					
SUBMIT FIVE (5) WELLS DRILLED	COPIES OF OG - 1, SHOWING OR PRIOR TO 1929, A PERMANENT	IGINAL PERMIT NUMBER ANI COPY OF THE PLAT AND T	O PERFORMANCE BOND. ON			
MUST ALSO BE	SUBMITTED.	The same same same same same same same sam	TE ORIGINAL WELL RECORD			
TO FRACTURE - STIM	ULATE:					
	S WELL ORIGINALLY DRILLED BE ENT PLAT AND ORIGINAL WELL F	RECORD.				
OIL AND/OR GAS ING ORIGINAL PE	S WELL ORIGINALLY DRILLED ON ERMIT NUMBER, AND PERFORMAN	AND/OR AFTER JUNE 5, 1929 CE BOND.	, FIVE COPIES OG - 1, SHOW-			
Required forms mu four (24) hours in	ust be filed within ninety (90) days o advance.	of completion for bond release.	Inspector to be notified twenty-			
		•				
The following wais	non manual barrar barra					
hereof.	ver must be completed by the coal of	operator if the permit is to be is	sued within ten days of receipt			
WAIVER: I the undersi	gned, Agent for	Cool Commune O				
this lease hav	ve examined and place on our mine	maps this proposed well location	or Operator of the coal under			
	Coal Compan					
providing oper	rator has complied with all rules and r	egulations in Articles 4, 5, and 7,	Chapter 22 of the West Virginia			
		For	Coal Company			
		· · · · · · · · · · · · · · · · · · ·	Official Title			