

CENTRAL STATION

Dates	March	<u>17</u>	 ,	1980
Operato	r's			
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FORM IV-35 (Obverse)

WELL OPERATOR'S REPORT 9

Wel	1 No.	<u>R1</u>	chard	McCu	<u> 110uč</u>
				017	

		DRIL	LING, F	RACTURI	NG AND/OR STIMU.	LATING, OR PHI	SICAL CHANGE	State County Perm
LL TYPE:					quid Injection_			
			•					Shallow/)
CATION:					Watershed:			
	Distr i	ct: <u>C</u>	entral		County: <u>Doc</u>	ddridge	Quadrangle:	West Union 7 1/2
								s Frederick
	s Box				330			13 × 26150
								WV 26158
RMITTED W	ORK: Di	:111 <u>}</u>	<u>X</u> / Co	nvert .	/ Drill dee	per / Red	iriii / Pr	acture or stimulate
	P.	lug off	f old fo	rmat10	n/ Perfor	rate new forma	tion/:	(*
	01	ther ph	nysical	change	in well (specif	`у)		1984 2 6 1980
			· · · · · · · · · · · · · · · · · · ·					DIS & CAS DIVISION
SRMIT ISSU	JED ON _	Decen	nber 1	7,	19 _79	OIL & GAS IN		PORE MINES
IF APPLICA						Name Paul	Garrett	ayaya rayunto dayang agalantan yaranca madada 100 - sabhannasa kurawa dayatki dan 100 - 1
	NUOUS PR CING. V					Address	321 Beech	Street
nga a nga tanggan aga an an	Annual Annua	a, gay, bahwaga aya, a sayaran di basin,	, 19				Clarksburg	WV 26303
EOLOGICAL	TARGET	FORMAT:	ION:	Bere	a			Seet
•					feet R			
					feet; salt			- value desertion
					Is coal		the area? No	
								2 , 19 <u>80</u>
WOLK P		enous,	Janga	ar y	, 1) 80	, and complete	d Danaary 1	, · · / <u>0V</u>
SING AND	TUBING	PROGRA	M ·					
SING OR	11	CDEC	T.T.T.A		••			
IN YALD MILE	. 11		IFICATIO		FOOTAGE	INTERVALS	CEMENT FILL-	PACKERS
BING TYPE	Size	1	Weight	1 1	FOOTAGE Jsed For drillin	a .	N OR SACKS	
ising TYPE	Size	1	Weight	1 1	ll .	a .	N OR SACKS	
	Size	Grade	Weight per ft	1 1	ll .	g Left in wel	OR SACKS 1 (Gubio feet	Kinds
nductor	Size	Grade	Weight per ft	New i	Jsed For drillin	a .	N OR SACKS	Kinds Class A Neat
nductor	8 5/	Grade	Weight per ft	New i	Jsed For drillin	g Left in wel	OR SACKS 1 (Subjected)	Kinds
nductor tech water al	8 5/	Grade	Weight per ft	New i	Jsed For drillin	g Left in wel	OR SACKS 1 (Subjected) 80 sks	Kinds Class A Neat Sizes
nductor mesh water al dermediat miuction	8 5/	Grade	Weight per ft	New i	Jsed For drillin	242 2218	OR SACKS 1 (Subjected) 80 sks	Kinds Class A Neat
nductor mesh water al dermediat minution ding	8 5/ e 4 1/	Grade 8 CW	Weight per ft	New i	Jsed For drillin	g Left in wel	OR SACKS 1 (Subjected) 80 sks	Kinds Class A Neat Sizes
nductor mesh water al dermediat minution ding	8 5/ e 4 1/	Grade 8 CW	Weight per ft	New i	Jsed For drillin	242 2218	OR SACKS 1 (Subjected) 80 sks	Kinds Class A Neat Sizes Depths set 2218
nductor mesh water al dermediat minution ding	8 5/ e 4 1/	Grade 8 CW	Weight per ft	New i	Jsed For drillin	242 2218	OR SACKS 1 (Subjected) 80 sks	Kinds Class A Neat Sizes Depths set 2218 Perforations:
nductor tech water	8 5/ e 4 1/	Grade 8 CW	Weight per ft	New i	Jsed For drillin	242 2218	OR SACKS 1 (Subjected) 80 sks	Kinds Class A Neat Sizes Depths set 2218 Perforations:
nductor mesh water al dermediat midding	8 5/ e 4 1/	Grade 8 CW	Weight per ft	New i	Jsed For drillin	242 2218	OR SACKS 1 (Subjected) 80 sks	Kinds Class A Neat Sizes Depths set 2218 Perforations:
nductor mesh water al dermediat minution ding	8 5/ e 4 1/3	Grade 8 CW	Weight per ft	New i	Jsed For drillin	242 2218	OR SACKS 1 (Subjected) 80 sks	Kinds Class A Neat Sizes Depths set 2218 Perforations:
nductor mech water al dermediat coluction ding hers	Size	Grade 8 CW CW SML	Weight per ft 22 10.5	X X	Jsed For drillin	242 242 2218 2075	OR SACKS 1 (Subjected) 80 sks 125 sk	Kinds Class A Neat Sizes Depths set 2218 Perforations:
nductor Mech water Al termediat minution ding hers PEN FLOW D Produc	8 5/ e 4 1/2 1"	Grade 8 CW SML	Weight per ft 22 10.5	New t	Jsed For drillin	242 2218 2075	OR SACKS 1 (Cubic feet 80 sks 125 sk	Kinds Class A Neat Sizes Sizes Depths set 2218 Perforations: Top Bottom
nductor Mech water Al termediat minution ding hers PEN FLOW D Produc	8 5/ e 4 1/: 1" ATA ing formas: In	Grade 8 CW SML	Weight per ft 22 10.5	X X X	Jsed For drillin	242 2218 2075	OR SACKS Coubic feet 80 sks 125 sk Pay zone dept 1 open flow,	Kinds Class A Neat Sizes Sizes Depths set 2218 Perforations: Top Bottom Sh 2024-2126 feet Bb1/d
nductor Mech water Al termediat minution ding hers PEN FLOW D Produc	8 5/ e 4 1/: 1" ATA ing formas: In	Grade 8 CW SML mation itial conal ope	Weight per ft 22 10.5	X X X	Jsed For drilling 242 Mcf/d	Left in wel 242 2218 2075 Oil: Initia Final	OR SACKS Coubic feet 80 sks 125 sk Pay zone dept copen flow, copen flow,	Kinds Class A Neat Sizes Sizes Depths set 2218 Perforations: Top Bottom Sh 2024-2126 feet Bb1/d Bb1/d
nductor mesh water al dermediat minution ding hers FEN FLOW D Produc	8 5/ e 4 1/: 1" ATA ing formas: In Fin	Grade 8 CW SML mation itial conal ope	Weight per ft 22 10.5 Weir pen flow, a of ope	X X X X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Mer/d Mer/d	242 2218 2075 Oil: Initia Final and final te	Pay zone dept l open flow, open flow, sts, 4 hour	Kinds Class A Neat Sizes Beaths set 2218 Perforations: Top Bottom th 2024-2126 feet Bb1/d Bb1/d
nductor mech water al termediat coluction ding hers PEN FLOW D Produc G	8 5/ 9 4 1/ 1" ATA ing formas: In Fin	Grade 8 CW SML mation itial conal ope Time ock pre	Weight per ft 22 10.5 Weir pen flow, cof oper essure,	X X X X P P P P P P P P P P P P P P P P	Mef/d Mef/d between initial	242 2218 2075 Oil: Initia Final and final te	Pay zone dept l open flow, open flow, sts, 4 hour	Kinds Class A Neat Sizes Beaths set 2218 Perforations: Top Bottom th 2024-2126 feet Bb1/d Bb1/d
nductor Mesh water Al Sermediat Solution Construction Product G S [If ap	8 5/ e 4 1/ 1" ATA ing formas: In Fin	Grade 8 CW SML mation itial conal operations of the constant of the constan	Weight per ft 22 10.5 Weir pen flow, cof open source, to multi	X X X X X X 21 Con flow	Mcf/d Mcf/d Mcf/d between initial psig (surface mpletion]	242 2218 2075 Oil: Initia Final and final te	Pay zone dept l open flow, open flow, sts, 4 hour afterho	Kinds Class A Neat Sizes Beaths set 2218 Perforations: Top Bottom th 2024-2126 feet Bb1/d Bb1/d
nductor Mech water al dermediat coluction ding hers FLOW D Produc G S [If ap Second	8 5/ e 4 1/ 1" ATA ing form file tatic replicable produce	Grade 8 CW SML mation itial conal operation of the content of t	Weight per ft 22 10.5 Weir open flow, a of open source, to multiper station	X X X X X X X X X X X X X X X X X X X	Mcf/d Mcf/d Mcf/d between initial psig (surface mpletion]	Left in wel 242 2218 2075 Oil: Initia Final and final te	Pay zone dept l open flow, open flow, sts, 4 hour after ho	Kinds Class A Neat Sizes Sizes Depths set 2218 Perforations: Top Bottom th 2024-2126 feet Sb1/d Sb1/d Ts Durs shut in

Time of open flow between initial and final tests, 4 hours static rock pressure, 400 psig (similars measurement, after 24 hours shot tr

[08-78]

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

Weir - Fraced with 340 bbls water, 28,000 # sand and 50,000 SCF $\ensuremath{\text{N}^2}$

Perforated Intervals:

7 holes 3 holes 2024-32 2042-46

2052-58

6 holes

2098-2108 2117-2126

8 holes 5 holes

Injun & Keener - Fraced with 286 bbls water 28,000 # sand and 50,000 SCF N^2

Perforated Intervals: 1760-70

10 holes

1797-99 1816-18

2 holes 2 holes

1838-43 1856-64

5 holes

7 holes

WELL, LOG

HODILL MILLON		liard or	1	Bottom	Herark. Including indicating of all from
FORMATION	Color	Soft	Top Feet	Feet .	and sait water, eas., 11 and 35
0 11					
Soil	brown	soft	0	10	
Sand & Shale	black	soft	10	1000	
Shale	black	soft	1000	1145	t in the second
Sand - 1st salt	white	hard	1145	1170	
Shale	black	soft	1170	1190	
Sand - 2nd salt	white	hard	1190	1215	
Shale	black	soft	1215	1248	
Sand 3rd salt	white	hard	1248	1337	
Shale	black	soft	1337	1558	
Sand - Maxon	white	hard	1558	1650	
Shale	black	soft	1650	1694	
Big Lime	white	hard '	1694	1740	
Sand - Keener	white	hard	1740	1775	
Sand - Big Injun	white	hard	1175	1870	
Shale	black	soft	1870	2023	
Sand - Weir	black	hard	2023	2144	- N
Shale	black	soft	2144	2212	
Sand Berea	white	hard -	2212	2217	
Shale	black	soft	2217	2264	
TD	. — —	7		2264	
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		Į			

(Attach separate sheets to complete as necessary)

Industrial Gas Associates
Well Operator

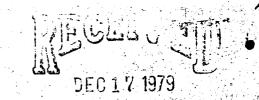
NOTE: Regulation 2.02(i) provides as

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



DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

10 The DEFARTMENT OF MINES,	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
Charleston, W. Va.	DATE December 14, 1979
Surface Owner C. K. McCullough	Company Industrial Gas Associates
Address Greenwood, WV	Address Box 1610, Greenwich, CT
Mineral Owner J. Statler et al	Farm R. McCullough Acres 42.75
Address Greenwood, WV	Location (waters) Long Run
Coal Owner N/A	Well No. 1 Elevation 860'
27 / 2	
N/A	District Central County Doddrido
37 / A	QuadrangleWest Union 7.5
S PERMIT MUST BE POSTED AT THE WELL SITE	
provisions being in accordance with Chapter 22, the W. Va. Code, the location is heroby approved	
drilling	INSPECTOR
	TO BE NOTIFIED Paul Garrett
Note: The second of the second	ADDRESS 321 Beech Street
Deputy Director - Oil & Gas Division	PHONE Clarksburg, WV 26303
불 <u>(원) 경점 이</u> 경험 등 하는 것 같은 것 하다.	
GENTLEMEN:	
The undersigned well operator is entitled to drill u	upon 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 dated November 8 19 79 by Richard
McCullough made to Petroleum Ser	vices, Inc. day of November
1979, in Doddridge County, Book 1	12 Page 318
X NEW WELL DRILL DEEPE	그 그 그 그 그 그 이 집에 있다면 하는 일 하는 그 그 그 사람들이 하는 것이 없었다. 이 사람들이 없다는
OIL AND GAS WELL ORIGINALLY D	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
	- 경기 (17) - 이 기가 하시고 있다. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. - 후
The enclosed plat was prepared by a registered en have been notified as of the above date.	igineer or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received to	hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were ma	ailed by registered mail, or delivered to the above named coal operators
or coal owners at their above shown respective addre	day before, or on the
same day with the maining or delivery of this copy to	the Department of Mines at Charleston, West Virginia.
DI DACE CIMATE CODIEC OF ALL	Very truly yours, Industrial Gas Associates
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Men (ushing
GBOINIGIGHD BOOD PINEGIBL 10.	Well Operator
WEST VIRGINIA GEOLOGICAL AND	P.O. Box 1610
ECONOMIC SURVEY	Address Street
P. O. BOX 879	of ell Operator <u>Greenwich</u>
HORGANIONIN, WEST VINGINIA 20303	City or Town
AC-304 - 292-6331	
	Connecticut 06380
	n de la companya de La companya de la co
*SECTION 3 If no objections are filed or found notice and plat by the department of mines, to said proposed it	by the Department of mines, within said period of ten days from the receipt of location, the department shall forthwith issue to the well operator a permit recition

the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that

read and understand the reclamation requirements as set forth in 12. Article 4. Section 12-b and will carry out the specified requirements."

47-017-2554

and the well operator authorized to proceed.

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

PROPOSED WORK ORDER	TO X DRILL	DECDEN				
DRILLING CONTRACTOR:	(If Known)					
NAME Gene Stalnake	r, Inc.	RESPONSIBLE AGENT:				
ADDRESS Letter Gap,	WV	NAME Dallas Frederick				
TELEPHONE _462-7092		ADDRESS Nobe, WV TELEPHONE 354-7484				
ESTIMATED DEPTH OF COM	IPLETED WELL 2700					
PROPOSED GEOLOGICAL FO		_ ROTARY X	ROTARY X CABLE TOOLS			
TYPE OF WELL:	X CAS					
TYPE OF WELL: OI	GAS	COMBSTORAG	E DISPOSAL			
	RECYC	LINGWATER FLO	OODOTHER			
TENTATIVE CASING PROGR	A M					
CASING AND TUBING	USED FOR	LEFT IN				
SIZE	DRILLING	WELL	CEMENT FILE UP OR SACKS - CUBIC FT.			
20 - 16						
13 - 10 9 - 5/8						
8 - 5/8						
7	240	240	Circ.			
5-1/2						
4 ½						
3		2700	125 sks.			
2			Perf. Top			
iners			Perf. Bottom			
			Perf. Top Perf. Bottom			
[.			Perf. Bottom			
APPROXIMATE FRESH WATE	P Depress 80	The state of the s				
APPROXIMATE FRESH WATE APPROXIMATE COAL DEPTHS	DEFINS OU FEET	SALT WATER_	FEET			
S COAL BEING MINED IN T		,				
	HE AREA?	BY WHOM?				
O-DRILL:						
SUBMIT FIVE (5) COPIES	OF OG - 1, \$100.00 PERM	IT FEE, PERFORMANCE RO	OND AND PERMANENT: COPY			
			THE TAXABLE COPY			
O DRILL DEEPER OR REDRI	LL:					
SUBMIT FIVE (5) COPIES	OF OG - 1, SHOWING ORIG	INAL PERMIT NUMBER AND	PERFORMANCE BOND. ON			
WELLS DRILLED PRIOR	TO 1929, A PERMANENT C	OPY OF THE PLAT AND T	PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD			
	ED.		J. L. L. RECORD			
O FRACTURE - STIMULATE:						
OIL AND/OR GAS WELL C	RIGINALLY DRILLED BEFO	REJUNE 5 1929 FIVE (5) C	OPIES OC 1, PERFORMANCE			
MATE		J(J111)	- 1			
OIL AND/OR GAS WELL O	RIGINALLY DRILLED ON AS	ND OD A DEED AND -	FIVE COPIES OG - 1, SHOW-			
ING ORIGINAL PERMIT NO	MBER, AND PERFORMANCE	BOND.	, rive cories ou - 1, Show-			
Required forms must be file	d within ninety (90) days of a	completion for built	nspector to be notified twenty-			
four (24) hours in advance.		completion for bond release. I	aspector to be notified twenty-			
		e generalise de de la participa de la companya del companya del companya de la companya del compa				
방화 중심 이 전 등으로 하는 것이다. 하늘 기계를 보고 있는 것이다.						
The following waiver must	be completed by the coal ope	rator if the permit is to bution	ued within ten days of receipt			
MVER: I the undersigned, Age	nt for	Coal Company Owner	r Onimiae at a			
this lease have examin	ed and place on our mine ma	ps this proposed well location	r Operator of the coal under			
We the						
providing operator has o	complied with all rules and regu	lations in A-4:-	being drilled at this location,			
Code	and tekn		Unapter 22 of the West Virginia			
		For	Coal Company			