

Berea 2600' 6-6 Stanley (90)

- LOG

Card

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

Daten	March	17	, 1	980
Operator	n¹ g			
Well No	. Miils	79V #1		

FORM IV-35 (Obverse)

WELL OPERATOR'S REPORT 36

Well No.	M	ulva	У	#1	-
API Wel	No.	1.7	_	095	<b>-075</b> 9

[08-78		DRIL	LING, F	RACTUE	RING	OF AND/OR STIMU	LATING, OR PHY.	API Well	No. 47 - 095 -075
LL TYPE:							/ Waste I		Shallow()
	Elevat	lon: _	113	<u>d</u>	'	datershed: B	urton Run	Till half hillion in his difficulti anglessages and de design, eller about.	
	Distri	r: <u>ce</u>	nterv	rrre-	(	Jounty: Ty	ler (	uadrangle: Per	nsboro 7 1/2
							DESIGNATED AC	ENT Dallas	Frederick
Address						mentals outpathensproproprise	Address	Box 13	
						0		Letter_	Gap, WV 26158
RMITTED WO	RK: Dr	rill X	/ Co	onvert ormati	on	_/ Drill dee / Perfor	per/ Red	rill/ Fr	action on attribute
									Mark 2 5 1930
						g pinggan digensis in the state of the state			
ERMIT ISSU	ED ON				. 19		OIL & GAS IN	O SPECTOR FOR WHI	MA GAS DIVISION STORES
[F APPLICAT	BLE: P	LUGGIN	G OF DR	Y HOLE	E ON				TITE WILLIAM
			ION FRO			OR			
			_, 19						26320
EOLOGICAL 1	PARGET	FORMAT	ION:	Ber	ea			Depth	feet
Depth o	of comp	leted	well, 🔏	2531		feet R	otary X	Cable Tools	u van digitari
							N/A feet.		
					•			the area? _N	
Work wa	as comm	enced	<u>Janu</u>	ary	19	. 19.80	, and complete	January	24 19 80
SING AND	rub <b>ing</b>	PROGRA	M						
SING OR	ll	SPEC	IFICATI			FOOTAGE	INTERVALS	CEMENT FILL-U	P <b>l</b> FACKERS
EING TYPE	Size	Grade	Weight per ft	New	Used	For drillin	g Left in well	OR SACKS (Cubic feet)	
nductor				ļ					Kinds
esh water	8 5/	B CW	22	<u>  x</u>		243	243	80 sks	Class A Neat
al	<u> </u>								Sizes
<u>termediate</u>		ļ	<b> </b>						
oduction			10.5	X			<b>25</b> 25	_125_sks	Depths set 2525
sing	2"	SML	4.0	X	infrare	Carpton related to the control of th	2450		
ners	<b></b>								Ferfamations:
				<b>_</b>			***************************************		T p Bottom
			<u> </u>	<del> </del>			and the second s	generali erra establingerage i establikaja i uskugang (n. 1960 g. 1970 g. 1970 g. 197	
	И	1		1		A company of the contraction of	757		-09
EN FLOW DA	TA						J 701	4CF+bBa	7°L)
			Wei			and and and and another the little and and another desired and another the another the and another the			b 2383-2490 feet
Ga								open flow,	
	F1r							pen flow,	
· ·	ntto x							after hour	
						osig (surisce stion]	= measurement)	aiter no	urs snut in
								Pay zone dept	2091-2208 feet
								open flow,	

Time of open flow between initial and final tests, 4 hours Static rock pressure, 400 reis (surface measurement) after 24 hours shut in

Final open flow, 200 Mcf/d

Final open flow, 5 Bb1/d

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

Weir - Fraced with 345 bbls water and 28,000 # sand and 50,000 SCF N<sup>2</sup> Perforated Intervals: 2303-89 5 holes 2401-04 2 holes 2408-20 10 holes 2464-72 8 holes 2486-90 4 holes

Keener & Injun - Fraced with 345 bbls water 28,000# sand and 50,000 SCF  $\ensuremath{\text{N}^2}$ 

Perforated Intervals: 2091-97 6 holes 2176-80 5 holes 2107-2111 4 holes 2191-80 4 holes 3 holes 1 hole 2201 2119-22 2140 1 hole 2206-08 2 holes

WELL LOG 2 holes 2170-73

FORMATION	Color	llard or Soft	36 Top Feet	Bottom Peet	Including indication of all free and salt water, coal, oil and ga
Soil Sand & Shale Shale - 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	brown black white black white black white black white white white white black black black black	soft soft hard soft hard soft hard soft hard soft soft soft soft soft soft	0 20 1268 1300 1500 1672 1704 1778 1820 1880 2020 2090 2150 2212 2280 2492	20 1268 1300 1500 1672 1704 1778 1820 1880 2020 2090 2150 2212 2280 2492 2531 2531	

(Attach separate sheets to complete as necessary)

Industrial Gas Associates
Well Operator

Agent

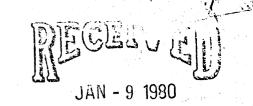
NOTE: Regulation 2.02(i) provides as jollows:

"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."



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DEPARTMENT OF MINES



## Oil and Cas Division

OIL & GAS DIVISION

## OIL AND GAS WELL PERMIT APPLICATION

	TO THE DEPARTMENT OF MINES,		7 700	^
	Charleston, W. Va.	DA'	TE January 7, 198	0
· .	Surface Owner Edwin Mulvay		npany Industrial Gas	
tati tirili.	Address Star Route, West Union,	WV Add	iress Box 1610, Gree	nwich, CT
	Mineral Owner Edwin Mulvay	Far:	m Mulvay #1	Acres 41 3/4
	Address Star Route, West Union,	WV Loc	ation (waters) Burton Ru	n .
	Coal Owner_N/A	Wel	1 No. 1	Elevation 1130
	Address N/A	Dist	trict Centerville	County Tyler
	Coal Operator N/A	Qua	drangle Pennsboro 7	1/2
1	AddressN/A	offenenseemen and assessment and assessment assessment assessment assessment assessment assessment assessment		
THIS PE	PRAIT MUST BE POSTED AT THE WELL SITE			
All prov	victions being in accordance with Chapter 22, W. Va. Code, the location is haroby approved			
or the	Irilling	INSPEC		2007
for _d	9-11-80	10 BE	NOTIFIED Phillip Tr	acey
oper <del>adi</del>	Start h	ADDRES	S Rt. 23, Alma, WV	26320
	Johnt h lass	DUONE	750 4572	
Dep	outy Director - Oil & Gas Division	PHONE	758-4573	
	GENTLEMEN:			
	The undersigned well operator is entitled to di	rill upon the above	named farm or tract of land i	for oil and gas, having fee
	title thereto, (or as the case may be) under gran			
	Patricia Mulvay made to Petroleum	Services	and recorded on the1	2 day of Oct.
	1979, in Tyler County, Book			
	X NEW WELL DRILL DE	EFPER	REDRILL FRAC	THE OD CTIMITE ATE
	OIL AND GAS WELL ORIGINALL			TORE OR STIMULATE
			THE COND O, 1900.	
	The enclosed plat was prepared by a registered	d engineer or licen	sed land surveyor and all coal	owners and/or operators
	have been notified as of the above date.			
	The above named coal owners and/or operator to make by Section 3 of the Code, must be received.	are hereby notified ved by. Or filed wit	l that any objection they wish th the Department of Mines wi	to make, or are required thin ten (10) days *
	Copies of this notice and the enclosed plat wer			
	or coal owners at their above shown respective a	ddress	day	before, or on the
	same day with the mailing or delivery of this copy	y to the Departmen	nt of Mines at Charleston, West	Virginia.
		Very to	ruly yours, Industrial	Cas Associates
	PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign N	Name) BY: Holan (	ushing
	GEOTHISICAL LOGS BINDOILL TO.	( - <b>.</b>	Well Operator	
•	WEST VIRGINIA GEOLOGICAL AND		Box 1610	
*	ECONOMIC SURVEY P. O. BOX 879	Address of	Street	
	MORGANTOWN, WEST VIRGINIA 26505	Well Operator	Greenwich	
	AC-304 - 292-6331		City or Town	
			Connecticut	
			State	
	*SECTION 3 If no objections are filed or for notice and plat by the department of mines, to said proper	ound by the Department osed location, the department of the control of the contro	ent of mines, within said period of artment shall forthwith issue to the	ten days from the receipt of 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.		/ T OOF OFFO	
			47-095-0759	PERMIT NUMBER
	"I have read and understand the reclamation requirem	ents as set forth in	, at	**************************************
	Chapter 22, Article 4, Section 12-b and will carry out the sp			

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

PROPOSED WORK ORDER TO DRILLING CONTRACTOR: (III NAME Gene Stalnaker,	f Known)	DEEPENFRACTURE STIMULATE  RESPONSIBLE AGENT:  NAME Dallas Frederick			
ADDRESS Box, 9 Lett					
TELEPHONE 462-7092		ADDRESS Box 1			
ESTIMATED DEPTH OF COMP	1 DWDD 1997 2600	TELEPHONE 354-7			
		ROTARY X	CABLE TOOLS		
PROPOSED GEOLOGICAL FOR					
TYPE OF WELL: OIL	GASCO				
	RECYCLIN	G WATER FL	OODOTHER		
TENTATIVE CASING PROGRA	M:				
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16		and the state of t			
13 - 10 9 - 5/8					
8 - 5/8	240				
7	240	240	Circ.		
5 1/2					
4 1/2		2600			
3		Asset and a second	124 sks.		
2			Perf. Bottom		
Liners	A CONTRACTOR OF THE STATE OF TH		Perf. Top		
	1		Pert. Bottom		
TO DRILL DEEPER OR REDRIE  SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED FRACTURE - STIMULATE:  OIL AND/OR GAS WELL OF BOND, PERMANENT PLATE  OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU	N/A E AREA? NO  OF OG - 1, \$100.00 PERMIT  L: OF OG - 1, SHOWING ORIGINATO 1929, A PERMANENT COPED.  RIGINALLY DRILLED BEFORE AND ORIGINAL WELL RECORD  RIGINALLY DRILLED ON AND MBER, AND PERFORMANCE BE	BY WHOM?			
			issued within ten days of receipt		
WAIVER: I the undersigned, Ager this lease have examine	nt fored and place on our mine maps	Coal Company, Owner this proposed well locat	or Operator of the coal under		
We the	Coal Company hav	e no objections to said w	ell being drilled at this location, 7, Chapter 22 of the West Virginia		
		Fo	or Coal Company		
			Official Title		