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API 7	447 -	085:-	5347		
Date	Oct	ober	. 21	198	

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

Office of oth And day but Anthem of Times

UILANDGAS VELLP	ERMIT APPLICATION
WELL TYPE: Oil X / Gas X /	
(If "Gas", Production χ / Unde	rground storage / Deep / Shallow /
LOCATION: Elevation: 950 Watershe	igen kongresser series i samme seri
District: Grant County:	d: <u>Hickory Run</u> Ritchie Quadrangle: <u>Petroleum 7.5</u>
WELL OPERATOR Waymon W. Buchanan	DESIGNATED AGENT Jim P. Morris Address 414 Peoples Bldg.
Address 444 Petroleum Commerce Blag.	Address 414 Peoples Bldg.
OIL AND GAS	Charleston, W. Va. 26301
ROYALTY OWNER Willard Ayers	COAL OPERATOR NONE
Address Rt. 2, Eastwood Drive	Address
Parkersburg, W. Va. 26101 Acreage 52	
	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Westvaco	NAME NONE Address
Address Parkersburg, W. Va. 26101	
Acreage 52	NAME
FIELD SALE (IF MADE) TO:	Address
NAME NONE	
Address	COAL LESSEE WITH DECLARATION ON RECORD:
	NAME Address
OIL AND GAS INSPECTOR TO BE NOTIFIED:	Address
NAME Deo Mace	MOV 1 0 1881
Address <u>Route l. Box 65</u> Sandridge, West Virginia	
Telephone 1-304-655-8693	
above location under a deed / lease X to the undersigned well operator from (if caid deed, lease, or other contract has Recorded on Jan. 26 , 19 81, in the of Ritchie County, West Virginia, in requested as follows: FFSPOSED WORK: Drill X / Drill Deeper	fice of the Clerk of County Commission of Lease Book at page
The above named coal operator, coal owner(s) objection they wish to make or are required Department of Mines within fifteen (15) days Copies of this Permit Application and the emailed by registered mail or delivered by her(s), and coal lessees on or before the day to the Department of Mines at Charleston, We	and to the above named coal operator, coal own- y of the mailing or delivery of this Applicatio
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Waymon W. Buchanan
WEST VIRGINIA OIL AND GAS	Well Operator
CONSERVATION COMMISSION	4: Jem# Mens
1613 WASHINGTON ST., E.	Jim P. Morris
CHARLESTON, WV 25311 It Telephone - 304/348-3092	Designated Agent

(Reverse)

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

	AC 1	UAL IN	(FUKMATI	I CN MUSI	BF 2	UBMIII	ED OR TO	KM 1V-35 (JPON COMPLETI	υt
	DRILLING CON	ITRACTO	R (IF-	KNOMN)	Gene	e Sta	Lnaker_		alayan ya qafiida araba adaya a maayagaa araga ga Maayadh	
			Ad	ddress_	P. (O. Bo:	x 178			
								. 26351		
	GEOLOGICAL Estimateo Approxima Approxima Is coal b	d depth	n of cor	10N <u>⊅e</u> npleted	vonis well_	5775	i- Tee	t. Rota feet; x_/	y x / Cabl	e tools/ _feet.
	CASING AND CASING OR TUBING TYPE		SPE	M CIFICATI Weight Iper ft			For Dril	- Left in	CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
	Conductor	11 3/4	ļ	37#	T X	0300		150'	Circulate	Kinds
	Fresh water Coal									 Sizes
		8 5/8	3	23#	X	1	and the second s	1900'	Circulate	
	Production	4 ½	ERW	10.5	X			5775'	400 sks	Depths set
	Tubing Liners				-	+				Perforations:
					1	1.			1	Top Bottom
					<u> </u>		1			
AC	requi 822-4 posed A sep where	red by -8a fr well. arate fract t and BE PO:	Code 8 om the Form IV uring co is note STED AT rdance vi calian is h This perm ced by	22-4-120 owner of 7-2 shall or stimuled as such THE WELL with Chapter oraby appropriate shall exp	a, and f any l not lating ch on SIL 22, oved	d (v) water be re	if applic well or quired fo o be part	able, the dwelling or fracture of the w	consent requ	ı a permit is
	The undersignor description has a rea of the signed has a well operated the governing or construction of the governing or construction or cons	oal les o be is gned co s exam well no obje or has	ssee who ssued wo cal ope ined the location compliularion	rator_ is propo n, the w to the w ed with	corded fteen _/ ow osed w well l	d a de (15) WAL when the control ocation oca	claration days of r VER / lesse cation. on has be ed to be	n under Coreceipt the e / of If a mine en added done at th	de \$22-4-20, ereof: the coal under map exists to the mine mais location,	any coal owner if the permit er this well which covers the ap. The underprovided the irginia Code and
	Date:		<u> </u>	9•			V	and the second s		
						1	Ву:	i		
						1	* , *			

ev 8-81)



State of Mest Virginia Bepartment of Mines Bil und Cas Bivision

Date	August	25,	1982	•
Opera	itor's			
Well	No. A	yers	#1	
Farm	W. Ay	ers		
APT N	n 47 -	. 85	***	5347

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas X Liquid Injecti (If "Gas," Production / Undergr	on/Wast ound Storag	te Disposa ge/ Dee	l/ p/ Sha	llowX_/)
LOCATION: Elevation: 950 Watershed	Hickory	Run	•	
District: Grant County R.		Quadrangle	e Petrol	eum 7.5
				•
OMPANY Wayman W. Buchanan 444 Petroleum Commerce Bldg. ADDRESS San Antonio, Texas 78205				
_	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Jim P. Morris 401 Peoples Building	Tubing	Drilling	in Well	Cu. ft.
DRESS Charleston, WV 25301	Size	- .		
SURFACE OWNER Westvaco	20-16 Cond.		VIII.	
ADDRESS Parkersburg, WV 26101	13-10"		100	Circ.
MINERAL RIGHTS OWNER Willard Ayers Rt. 2, Eastwood Drive	9 5/8		100	
ADDRESS Parkersburg, WV	8 5/8		2018	Circ.
OIL AND GAS INSPECTOR FOR THIS WORK Deo	7			
Mace ADDRESS Sandridge, WV	5 1/2			
PERMIT ISSUED 11/03/81			5880	580 sks
DRILLING COMMENCED 12/7/82	4 1/2		3000	300 5%
DRILLING COMPLETED 12/17/82				-
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners			
ON:	used			
CENTICATOR TARGET ENDMANTON MARCOLLING Ch	±10	D	<u>.</u> 595	0
GEOLOGICAL TARGET FORMATION Marcellus Sh		Dep		0feet
Depth of completed well 5884 feet				-
Water strata depth: Fresh 45 feet;				_ No
Coal seam depths: None	_ is coar	perna mru	ed in the	e area?
OPEN FLOW DATA Huron				
Producing formation Devonian Shale	Pa	y zone dep	th 3976	<u>3716</u> feet
Gas: Initial open flow Show Mcf/d	Oil: In	itial open	flow0	Bbl/d
Final open flow (220) Mcf/d				
Time of open flow between in	itial and f	inal tests	3 ho	ours
. Static rock pressure 550 psig(surfa	ace measure	ment) afte	r 24 hou	ırs shut i
(If applicable due to multiple completion			•	
Second producing formation None	, Pa	y zone der	oth	fee:
Gas: Initial open flow Mcf/d				
Mof/d	Oil: Fi	nal open f	100	****
ingen flet between in				
	ى مىلالىق يىلىمىسىدىك چىر بىر داداسىد	المامية المحادية		
	ers of the large teach	/ 6163		-JUN 27 1

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHAPTE, EIC.

Perforations from 3976 to 3716 (Lucy)
Acidized with 1500 gals. acid, with 36,000 scf Nitrogen.
Fractured with 2,000,000 scf Nitrogen

1897 T. S. WILL

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ϵ
Redrock, shale & sand Redrock & shale Sand & redrock Shale Sand Shale interbedded w/sand Shale Sand Shale Sand Shale Sand Break Big Lime Injun Squaw Shale Coffee Shale Berea Gray shale Huron Shale Shale Rhinestreet Shale Shale Marcellus Shale Break Dnondaga Limestone TD 5888 5495 389' upl.	0 110 335 515 894 971 1246 1280 1406 1530 1613 1630 1748 1752 1814 1840 1926 2300 2311 2314 4200 4447 5317 5495 5650 5722 5730 5884	110 335 515 894 971 1246 1280 1406 1530 1613 1630 1748 1752 1814 1840 1926 2300 2311 2314 4200 4447 5317 5495 5650 5722 5730 5884	Gas show at 3425' to 5800'.

(Attach separate sheets as necessary)

Wayman W. Buchanan
Well Operator
y:

Date: August 25, 1982

Note: Repliates 0.00(6) provides as follows:

"The term 'log' or 'well log' shall mean a systema in

"The term 'log' or 'well log' shall mean a systema in

"The term 'log' or 'well formations, including

"The demonstrate of a well."