Date: August 21 , 19 80 Operator's
Well No. H-1074

API Well No. 27 - 073 - 0943
State Jounty Permit

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

	OIL AND	GAS WELL PERMIT	APPLICATION	
WELL TYPE: 01	1 X / Gas X /			
4 1		Underground sta	7270	Deep/ Shallow_X_/)
	evation: 865'			
			3. 15.	adrangle: Raven Rock W.V. 7½
	Haught, Inc.			
Address _	Route 3, Box 14		Address _	Smithville, WV 26178
-	Smithville, WV 261	78	-	
OIL & GAS				
ROYALTY OWNER	Jack Waugh St. Marys, WV 26170	00		None
Address	50. Marys, WV 20170		Address _	
_	405		-	
_	107		A company of the same	WITH DECLARATION ON RECORD:
	Jack Waugh	Car No. of the case of the case of	me	
Address _	St. Marys, WV 26170	,	Address _	6
_			-	AUG 2 5 1980
****	107	Na	me	OIL & GAS DIVISION
FIELD SALE (IF			Address _	OFFT. OF MINES
			-	
Address _				TH DECLARATION ON RECORD:
	ECTOR TO BE NOTIFIED		Address _	
-	Phillip L. Tracy	1	-	
1	Rt. 3, 80%			
_	Alma, W.V. 26320	-		
The .	undered and well energter d	s antitled to on	anata for of	l or gas purposes at the above
				ed <u>May 17</u> , 19 <u>80</u> , to the
	ll operator from Jack		·	nay 17 , 19 00 , 00 o
	lease, or other contract h		21 11 14 11	IA CETTOON OF TO AN ITMANY SINT
				he County Commission of Pleasant:
1 10 1				and the second s
				A permit is requested as follows
PROPOSED	WORK: Drill X / Drill de			
				mation/amed on even inclusion
	Other physical chang	ge in well (speci	fy)	
				and the second state of th
	planned as shown o			
The a	above named coal operator,	coal owner(s), a	nd coal less	ee are hereby notified that any
				must be filed with the Department
	n fifteen (15) days after t			
Copi	es of this Permit Applicati	on and the enclo	sed plat and	reclamation plan have been mailed
by registered	mail or delivered by hand t	the above name	d coal opera	tor, coal owner's), and coal lesse
on or before the	he day of the mailing or de	elivery of this P	ermit Applic	ation to the Department of Mines a
Charleston, Wes	st Virginia.			
PLEASE SUBMIT (COPIES OF ALL GS DIRECTLY TO:			
WEST VIRGINIA			Uanab t	Tno
1615 WASHINGTO		-	Haught,	Well Operator
CHARLESTON, WV			no	101 1
TELEPHONE: (30	04) 343-3692	Ву	Nanes	n N. Saught
		I to	s Presid	lent.

BLANKET BOND



DRILLING CONTRACTOR (IF KNOWN)

PROPOSED WORK ORDER

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

Haught, Inc.

	1	•		Address	Smithville	, WV 2617	78			To Sand State
-										
SECTORION .										
JEOLOGICAL 1	ARGET	FORMAT	ION, _		Shale					
annova	mata :	th of	complet	ed well,	4000'	feet	Rotary		Cable tools	
Approxi	.mate w	ater s	trata d	lepths:	Fresh, 75 [†]	feet; sa	lt,	_ feet.		
Approxi	mate c	oal se	am dept	hs:	None Is	coal being	mined in	the are	?? Yes	No X
CASING AND T	UBING	PROGRA	M							
CASING OR TUBING TYPE	\$170	1	IFICATI Weight	1 1	FOOTAGE	INTERVALS		FILL-		CKERS
Conductor	10120	U. aue	Der 13	iiew lose	d For arillin	g Left in w	ell (Sub	ic feet		Care Control
resh water	8 5/8	K-55	20#	X	200'	200'	75 5	acks	Kinds	
cal										
intermediate	14	17.31						1179957	Sizes	0.
reduction		J - 55	10.5#	X		4,0001	100 4	acks		
ucing			-			4000'	7 100 3	acks	Depths set	
iners		-					-			
iners						-	_		Perforation	ns:
							_		Top	Bottom
of the vy	have r	not com	The location of the location o	ion is here his permit s by 5-4	Chapter 22, by approved shall expire if 4-81					
	7		u ous	DIVISION 6	10/1					
-		io: U	i Gu	- Market						
نابها ا	1) -11									
The ceation has ell location	undersexaming, the	issued signed ed this well lo	coal o	perator sed well	mpleted by the declaration (15) days of WALVE / owner location. If added to the tion, provide nia Code and	n under Cod receipt the: R less a mine map mine map.	e § 22-4- reof: see / exists wi	of the nich soversigned	he permit	
*	-	-				3	3 5 2			
5e:		43	, 19							
		No.								
						Ву				
4						Its				
	**						lim	IN TO	BLANK	
								W 13	anala	

D.	ate :	21/	06	19 80	
Well	No.	H-	1074		
API	No.	47	- 073	- 943	
	S	tate	County	Permit	

r lbs/acre (10-20-20 or equivalent)

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS

Company Name HAUGHT II Address SMITHVILLE, Telephone 477-3333 Landowner JACK WAU Revegetation to be carried out	W.V.	Address SMITA Telephone 477 Soil Cons. District UP	HVILLE, WV -3333 PER OHIO
This plan has been reveiwed by and additions become a part of	y U	oper Ofio SCD. AL	
Access Road		Location	
Structure CROSS DRAIN Spacing 200' Page Ref. Manual 1:3	(A)	Structure DIVERSION Material Soll Page Ref. Manual 1: 9	7
Structure Spacing Page Ref. Manual		Structure BARRIE! Material BRUSH & Page Ref. Manual 1; 1	REES (2)
Structure	(C)	Structure	(3)
Spacing Page Ref. Manual		Material Page Ref. Manual	
All structures should be inspe	ected regula	arly and repaired if nece	ssary.
	Revegeta	tion	
Treatment Area I		Treatment Are	a II
or correct to ph /a.5	Tons/acre	Lime or correct to pH	Tons/Acre

*Inoculate all legumes such as vetch, trefoil and clovers with the paper SEP - 2 1980 bacterium. Inoculate with 3X recommended amount.

Fertilizer

Mulch

lbs/acre

Tons/Acre

40 lbs/acre lbs/acre lbs/acre

OIL & GAS DIVISION
DEPT. OF MINES

Tons/Acre

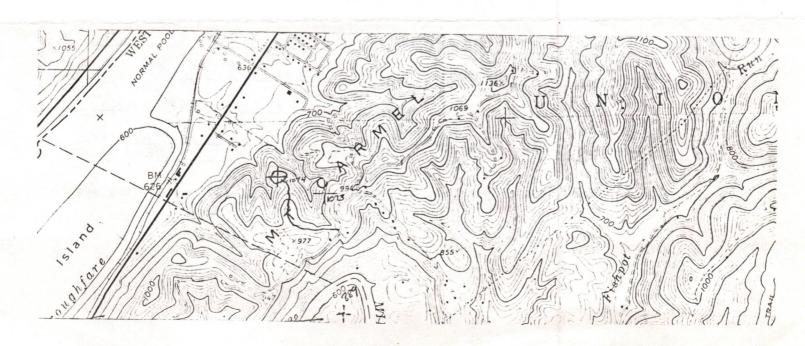
Attach or photocopy section of involved Topographic map. Quadrangle RAVEN ROCK 7.1/2

Legend:

Mulch HAY OR STRAW

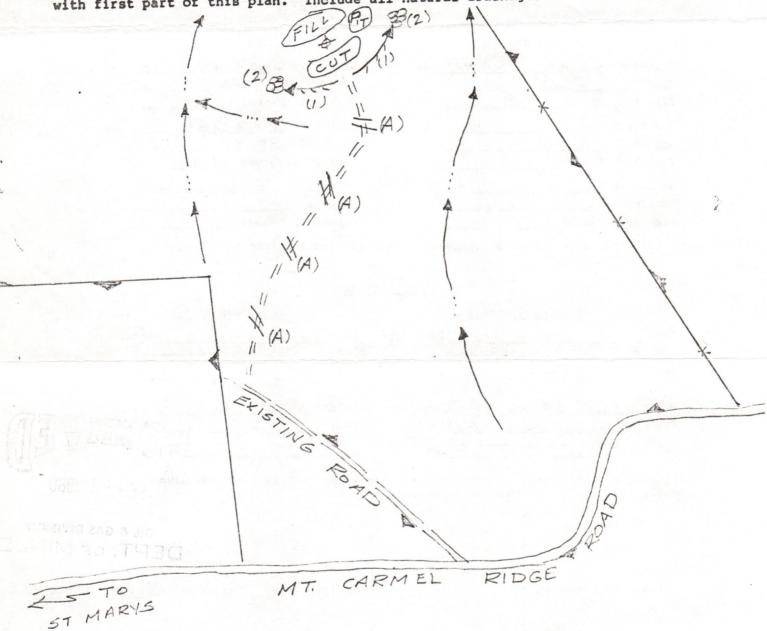
Well Site

--- Access Road



Diversion
Spring O
Wet Spot O
Building
Drain Pipe O
Waterway

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



Comments: SLOPE OF ACCESS ROAD 10%

ALL BRUSH & TREES TO BE CUT & PILED

ACCESS ROAD FOLLOWS RIDGE, NO DITCH NECESSARY.

Signature: Name P Plant Smithville, WV 26178 477-3333

Address Phone Number

Please request landowners cooperation to protect new seeding for one growing season.

Date: _	March	31	 19_	81
Operato	7'5	3		
Well No		H-1074	 _:	
API Wei	: ::. ::	47 - 073	 094	3.

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION WELL OPERATOR'S REPORT OF DETILING, FRACTURING AND/OR STEMULATING, OR PHYSICAL

THE PHYSICAL THANGE

WELL TYPE: 0											
:	If "Ja	s", ?=	edustis:	X	_' :	inde i ground	± 57	crage	Deep	Shallow X	_0
LOCATION: E	levati	:: _{	365'		%	atershed:	Oh	io River			
	15:-1:	:: [Jnion		_ 0:	ounty: P	lea	sants	edrangie: Ra	aven Rock W	J 7½'
	**	, ,					_	Jack W	augh H-1074		
										n R. Haught	
Address								Address	Smithville	, WV 26178	
	Sn	nithvi	lle, V	VV Z	6178						
	7. ~~	3		.ve=		Orill de	eepe	. Red:	422 / 73	nacture or st	imulare
A								e new format:			
											_
	02	ner pi	1221			well (spee.	3,				
PERMIT ICSUE	ON Se	eptemb	per 4		_, 19_				PECTOR FOR TH		-
IF APPLICATIONS	LE: FI	.UGGINO	OF DES	HOL	E 0::	3.0			llip L. Tra	acy ·	
REWORKI	NG. VE	RBAL F	ERMISSI	:::::	ETAINE	:		Address			
			, 19	_					Alma, WV		
GEOLOGICAL T	ARGET B	FORMATI	::::			Sha	ale		Depth 39	47 to 4500	Seet
Depth 3	f compl	leted %	rell, _	45	00' -	feet	Rots	ry_X_/ c	able Tools _		
Water s	trata :	epth:	Fresh,		fee	t; sal	t,_	feet.			
Coal se	am dept	.ns: _	None	9		_ Is coal	bes	ing mined in	the area: No	0	
Work wa	s comme	enced	Decemb	per	22	, 19_80)_, a	and completed	January 1	, 15	81
CASING AND T											
CASING OR TUBING TYPE		SPEC:	FICATI:	CIIS I	,	FOOTA	JE I	MERVALS	OR SACKS	UF FA	CHERS
	Size	Crade	ter ft	New	Jsed	For drill:	1	left in well	OR SACKS (Subic feet	1	
	1	1		1	1 1		-			11	
Presh water	8-5/8	K-55	20#	X	-	540'		540'	80 sacks		
Ccal										Sizes	
Intermediate					1					!	
Production	4 1 11	J-55	10.5#	X	-			4409'	500 sacks	Destins set	
Tubing					-		_		10000000000000000000000000000000000000		
Liners	1							10 1 lang		all Ferrance	ns:
							_	1:14		- T=D	Botton
								22	I JN - 4 1981	4172	4344
									1 1301		
								Oil	& GAS DIVISI	ON	
CPEN FLOW DA						G1 7 -				NE 57 to	1500 -
						Shale					
Ga											
	F1:								_	751/	′ . .
									15, <u>8</u> her		
							: :	measurement;	ifter 12 :	ours shut in	
						tion					
										th	
Ga										3t:	
	Fir										'à
		Time	of cre	: f-	ow bet	ween initi	El :	and final tes	::, h::	re	
5:	E:1: F:	esk pre	::		F	sig (surfa	: e :	test urerent	efter :	nins shir in	

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

Nitrogen fraced by B.J. Hughes Production Services -- 720,000 SCF 1000 Gal. Acid

Perforations 20--4172 -- 4344

WELL LOG

FORMATION		Color	Hardy or Soft	Top Feet	Bottom	Remarks Including indication of all f and salt water, coal, oil and
to the state of th						
Clay				0	9	
Sand Stone				9	18	
Red Rock	A STATE OF THE STA			18	20	
Sand Stone				20	34	
Shale				34	40	
Sand Gravel				40	47	
Red Rock				47	63	
Shale/Sand				63	125	
Red Rock				. 125	140	
Shale				140	150	
Red Rock	No of the			150	180	
				180	245	
and/Shale						
ed Rock		:		245	265	
Shale			A CONTRACTOR	265	290	
ed Rock		1.00		290	300	
hale				300	340	
Red Rock		The state of the s	17.08	340	350	
hale	100			350	380	
ed Rock				380	400	
hale				400	435	
d Rock				435	450	
ale				450	490	
d Rock				490	520	
nale				520	550	
ed Rock		Day 1		550	560	
hale				560	638	
ed Rock				638	661	The second secon
hale				661	698	
ed Rock				698	705	
and				705	716	
nale				716	736	
ed Rock				736	741	
and/Shale	The second			741	1092	
and				1092	1200	
and/Shale				1200	1260	
hale				1260	1280	
and				1280	1320	
hale				1320	1400	
and				1400	1480	
ime				1480	1500	
Shale/Sand				1500	1830	
hale				1830	1917	
and					1925	
				1917		
andy Shale				1925	2250	
Sand				2250	2269	
andy Shale	State Miles			2269	2550	
and				2550	2590	
and/Shale				2590	3049	
Shale				3049	3280	
Sand/Shale				3280	3560	
Shale				3560	3670	
Sand/Shale				3670	3730	
Shale				3730	3810	
				3810	3947	
Sand/Shale	100					T.D.
Shale				3947	4500	1.0.

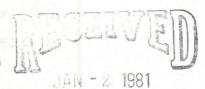
Resulction 2.02(i) provides as follows: NOTE:

"The term 'log' or 'bell'log' shall mean a systematic, actailed peologial record of all formations,

Haught, Inc

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT & GAS DIVISION

Company Haught Inc.	CASING AND	USED IN DRILLING	Left in Well	PACKERS
Address Smithsville, West Virginia	Size			
Farm Jack Waugh	16			Kind of Packer
Well No. # 1074	10			Size of
District Union County Pleasants	81/4	557'	C.T.S. 260	sacks cement
Drilling commenced	5 3/16			Depth set
Drilling completedTotal depth_2138*	3			Perf. top
Date shotDepth of shot	2	1		Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths Merc. inInch				Perf. bottom
VolumeCu. Ft.	CASING CEME	ENTED	SIZE	NoFTDate
Rock pressurehrshrs.	NAME OF SE	RVICE COMP	PANY	
Oilbbls., 1st 24 hrs.	COAL WAS E	NCOUNTERE	D AT	FEETINCHES
Fresh waterfeetfeet	FEET	'INC	CHES	FEETINCHES
Salt water feet feet	FEET	IN(CHES	FEETINCHES
Drillers' Names				

Contractor, Haught Brilling Co-Rotary

December 30, 1980

William J. Blosser #502
William J. Blosser #502

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No		Well No.								
COMPANY	ADDRESS									
ARM		DISTRICTCOUNTY								
illing Material Used					and the second	The Control of the				
					T Form					
iner Loc	ation	Amount	Packer	Location						
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TI	JBING				
CEMENT-THICKNESS	WOOD-SIZE LEAD		CONSTRUCTION-LUCATION	RECOVERED	SIZE LOS					
distriction of the control of the co			Grand and a second							
				The second secon	a minut nj D					
			\$ 15.15 pt	o resort		es (4) (4) (4)				
				or Two Constants						
		-								
			177 L. 191 851							
1.00			1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	altaner.		Charte de la constant				
2.1	7.4									
					,					
			*							
llers' Names										
marks:	-				34-12-14-14-14-14-14-14-14-14-14-14-14-14-14-					
		10.		. 0 0 0 0						
	I hereby certify I v									

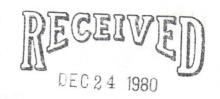
DISTRICT WELL INSPECTOR

Permit No. PLES-943

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION DEPT. OF MINES

Company Haught Inc.	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Address Smithsville, West Virginia	Size			beet towned to
Farm Jack Waugh	16	1		Kind of Packer
Well No. H-1074	13			Size of
District Union CountyPleasants	81/4			
Drilling commenced	65%			Depth set
Drilling completedTotal depth				Perf. top
Date shotDepth of shot	2			Perf. bottoni
Initial open flow/10ths Water inInch	Liners Used			Peri top
Open flow after tubing/10ths Merc. inInch				Perf. bottom
VolumeCu. Ft.	CASING CEMEN	TED	SIZE	No. FTDate
Rock pressurehrs.	NAME OF SERV	VICE COMPA	NY	
Oilbbls., 1st 24 hrs.	COAL WAS ENG	COUNTERED	AT	FEETINCHES
Fresh waterfeetfeet	FEET_	INCH	ES	FEETINCHES
Salt water feet feet	FEET_	INCH	ES	FEETINCHES
Drillers' Names				
Remarks: Rigging up, Good pit,	good road, app			

Good pit, good road, approved by this inspector

Contractor, Haught Inc--Retary-rig-16

December 22. 1980

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No.	Wel	Well No.					
COMPANY			ADDRESS		- Che	MARKAL I	
ARM	OUNTY						
				. 02	_ Julija		
'illing Material Used				grin tem,e	I I Tropica	and the same	
iner Loc	eation	Amount	Packer	Location	Antonio	Sant	
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASING AND TUBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED SIZ		Los	
	## - E C				3 - 5 - 1 - 1 - 1	20.12.11	
					and the second	THE SET SEEDS	
						per virid gover	
			N	V			
			(198)				
					our monte diser-		
illers' Names							
marks:		Environment of the control of	and the second of the second o	State of the state	**************************************		
			, as as ,ill foot				
				al , ned or title			
	I hereby wortify I	rigited the she	ve well on this date.				
DATE	I hereby certify I	risited the abo	ove wen on this date.				

DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



MAR - 8 1982

OIL AND GAS DIVISION WYDEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

House	At iNC	С	ASING AND TUBING	USED IN	LEFT IN	PACK	ERS
Cempany Track	1-110	w. Va.	Size				
Address Tack	wansh	1				Kind of Pac	ker
Well No. H -/C	74						N
	County	1/2	1/4			Size of	
Orilling commenced	/		5/8			Depth set_	2 2
*			3/16				TO THE STATE OF TH
Orilling completed	Total dept	h 3_				Perf. top	
Date shot	Depth of shot_	2		Manager Control of the Control of th		Perf. bottor	n
Initial open flow	/10ths Wate	r inInch Lir	ners Used			Pert. top	
Open flow after tubing_	/10ths Merc.	inInch				Perf. bottor	n
Volume		Cu. Ft. CA	SING CEME	NTED	SIZE	No. FT	Date
lock pressure	lbs	hrs. NA	AME OF SEF	RVICE COMPA	ANY		;
)illi	bbl	s., 1st 24 hrs. CO	AL WAS EN	COUNTERED) AT	FEET	INCHES
Fresh water	feet	feet	FEET	INCI	HES	_FEET	INCHES
Salt water	feet	feet	FEET	INC	HES	_FEET	INCHES
Drillers' Names							
ormers Names	ng pilipang ang mananan ang mananan mananan na pang ang mananan mananan mananan mananan mananan mananan manana						
Remarks:	l Insp	a fi	. 0		An	/	1

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No					₩e	He	
COMPANY				ADDRESS		- 5.7	
			DISTRICT			The second section of the sect	
			DISTRICT		OUNTY		
illing Material	Used						
						3 3 3 10	
ner	Loc	ation	Amount	Packer	Location	A PROCESSOR AND THE SECOND PROCESSOR AND THE S	
PLUGS USED AND DEPTH PLACED			BRIDGES	CASIN	CASING AND TUBING		
CEMENT-THIC	CKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
				A Practical Control			
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and the second s			1				And the grades have compare that he the company to the company of
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						3	
	~					The second secon	The second secon
llers' Names_							
	5						
marks:							The property of the second
	T	hereby certify I vi		19			

DISTRICT WELL INSPECTOR



State of Mest Airginia Bepartment of Mines

Gil and Gas Bivision Therlecton 25305

March 16, 1982

WALTER N. MILLER DIRECTOR

Haught, Inc. Route 3, Box 14 Smithville, West Virginia 26178

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

PERMIT NO.	FARM & WELL NO.	*	DISTRICT
PLEA-871 PLEA-0928 PLEA-0939 PLEA-0942 PLEA-0943 PLEA-0990 PLEA-1020 PLEA-1038 PLEA-1067 PLEA-1142	Jessie L. Taylor #H-1009 Lewis E. Snider #H-1049 Jimmie Brammer #H-1057 Jack Waugh #H-1073 Jack Waugh #H-1074 Paul M. Wilson, et al #H-1116 Cecil Lee Fetty #H-1076 Clifford Cunningham #H-1141 Watson-Haas Lumber Co. #H-1185 Benson D. Ward #H-1237		McKim MCKim Union Union Union Washington McKim Washington Washington Washington

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved.....

Fred Burdette

1.0 API well number:- [If not available, leave blank, 14 digits.]	47-073-0943		403	Man of the w	
2.0 Type of determination being sought: (Use the codes found on the front , of this form.)		107 Section of NO	GPA /	Calegory Code	AUG 2 8 .1981
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)			865'	DEP	& GAS DIVISION T. AF MINE
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Name Rt. 3	nt, Inc. 3 Box 14 nville, WV 2	26178	state Zip Code	Seller Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Union District Field Name Pleasants County County			WV State ·	
(b) For OCS wells:	N/A Area Nam	Date of Lea		Block Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Jack	Waugh H=10	74	•	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Shale)			-
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number-not available, leave blank.)	Columbia Gas Transmission Corp. Name Buyer Code				
(b) Date of the contract:	I I I		Mo. Day		•
(c) Estimated annual production:			15	MMc1.	
		(a) Base Price (S/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)					
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		4-976	6_3_7	01	5.623
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency AUG 26 1981	Warre Name Wan Signature	en R. Haught	Laught	Presid	lent
Date Received by FERC		st 24, 1981 lication is Complet	ed	477-3333 Phone Number	FT7900306/2·

DATE: NOV 201981 PARTICIPANTS: BUYER-SELLER CODE WELL OPERATOR: olumbia Gas Iransmission FIRST PURCHASER: \ 0.16% W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER 91-08. 26-107-073 : 0943 Qualifier FThusey Use Above File Number on all Communications Relating to Determination of this Well CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING ITEM NO. 1. FERC -121 ____ Items not completed - Line No. 7.0 all IV-1 Agent / Warren R Haught IV-2 Well Permit -4. IV-6 Well Plat IV-35 Well Record _____ Drilling ____ Deepening ____ IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? ____ Ratio ____ IV-39 Annual Production _____ years 7 -Days off line: IV-40 90 day Production 9. IV-48 Application for certification. Complete? 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? _____ Affidavit Signed____ 18-28. Other: Survey _ Logs ____ Geological Charts 1: 4000 Map_____ Well Tabulations____ Structure Map Date commenced: 12.22 - 80 Date completed 1-1-81 Deepened -(5)(5) Production Depth: 3947-4500 (5) Production Formation: Shale (5) Final Open Flow: 45 mcf After Frac. R. P. 860 # 12 hrs (5) (6)Other Gas Test: Avg. Daily Gas from Annual Production: -Avg. Daily Gas from 90-day ending w/1-120 days (8) Line Pressure: -PSIG from Daily Report (5) Oil Production: ____ From Completion Report ____ 10-17. Does lease inventory indicate enhanced recovery being done ____ 10-17. Is affidavit signed? ✓ Notarized? Does official well record with the Department confirm the submitted information? Additional information _____ Does computer program confirm? ____

Was Determination Objected to ______ By Whom? ____

	Date Hugust 24 . : 5 8.
STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION	Coerator's H-1074

- i

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

MGPA Section 107

	DESIGNATED AGENT Warren R. Haught
	ADDRESS Rt. 3 Box 14
	Smithville, WV 26178
WELL OPERATOR Haught, Inc.	LGCATIO: Elevation 865!
ADDRESS Rt. 3 Box 14	Watershed Ohio River
Smithville, WV 26178	Pist Union County Pleasants Tuat Raven H
GAS PURCHASER Columbia Gas Transmission	Cos Bureiros
ADDRESS P.O. Box 1273	Contract No. Applied For
Charleston, WV 25325	Meter Chart Code
* * * * * * * * * * * * * *	
Date surface drilling began December 22	, 1980
Indicate the bottom hole pressure of the well and	d explain how this was calculated.
$Pws = Pwh e \frac{(.01875)(SG)(D)}{Z}$	
Pws = Static Bottom Hole Pressure	Pws = 969 psig.
Pwh = Wellhead Pressure	Pwh = 860
SG = Specific Gravity :	SG = .72
D = Depth to center of Perforations	D = 4258
<pre>Z = Average Compressibility factor T = Average Temperature (OR)</pre>	Z = .85 T = 562
AFFIDA	
· Alliba	
shale footage is equal to or less than five (5) percent of	(i) or (3)(ii)(A) has been filed, or as indicated by the reated that the percentage of potentially disqualifying nonthe gross Devonian age interval; and I have no knowledge of inconsistent with a conclusion that the fell qualifies as a
STATE OF WEST VIRGINIA.	
COUNTY OF Ritchie TO WIT	
I. Lenna G. Haught . a Not	ary Public in and for the state and county aforesaic
do certify that Warren R. Haughtwhose nam	e is signed to the writing above, hearing date
the 24 day of August, 19 81, has	acknowledged the same before me, in my county
aforesaid.	
Given under my hand and official sea	1 this 24 day of August , 1981.
My term of office expires on the 18	
	Lenna J. Haught
[NOTARIAL SEAL]	Notary Public
All the state of t	



