Date: June 27

H-1020

API Well No. 27 - 073
State Jounty

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Of	11 <u>X</u> / Ga	s X /			
			Undergrou	nd stora	age Shallow_X_/
LOCATION: EX					
					ants Quadrangle: Schultz
WELL OPERATOR	Haught,	Inc		7557	GNATED AGENT Warren R. Haught
	Route 3,				Address Smithville, WV 26178
Address _		le, WV 261			Acciress Smithville, wv 20176
-		20, 11, 202	.10		
OIL & GAS	Charles J.	. Pethtel		COAL	OPERATOR
	5451 Ashfo	A COUNTY OF THE REAL PROPERTY OF THE PR			Address
	Dublin, Oh				
Acreage	128.47			COAL	CWNER(S) WITH DEGLARATION ON RECORD:
SURFACE OWNER				Name	
Address					Address
15	A Adams of the same				
Acreage			- 1 pc az - 723 - 12	Name	
FIELD SALE (IF	MADE) TO:				Address
Name					
Address _		· A		COAL	LESSEE WITH DECLARATION ON RECORD:
				Name	
OIL & GAS INSP					Address
Name					
Address _	P. O. Box	173 - b Dod	ld Street		
<u>.</u>	Middlebour	ne, WV 26	149		
location under undersigned we [If said deed,	a deed	rom Zeda	_/ other co ack Pethte has been red	el corded:]	
Recorded on	April 22	, 19 <u>80</u> , in	the office	of the	Clerk of the County Commission of Pleasants
County, West V	irginia, in _	Deed	Book 155	at page	e 471. A permit is requested as follows:
PROPOSED				DOVERSON	MO / Fracture or stimulate non / A
	Plug of	ff old format	ion/	Perforat	te new formation
	Other p	physical chan,	ge in well (specify	Sure mittod six)
			1.		operations have not commenced by
	planr	ned as shown	on the work	order or	n the reverse side hereof.
The	above named co	pal operator,	coal owner((s), and	coal lessee are hereby notified that any
objection they	wish to make	or are requir	red to make	by Code	\$ 22-4-3 must be filed with the Department
of Mines withi	n fifteen (15)	days after	the receipt	of this	Application by the Department.
Copi	es of this Per	mit Applicat	ion and the	enclosed	d plat and reclamation plan have been mailed
					coal operator, coal owner's), and coal lessee
on or before to Charleston, We	he day of the	mailing or de	elivery of t	his Perm	mit Application to the Department BONDines at
ondi Leston, We	av tar Sailed.	The Carl	Total Control	J. Promp.	DELITION
PLEASE SUBMIT GEOPHYSICAL LO			Glady	3	The second secon
WEST VIRGINIA CONSERVATION	OIL AND GAS ON COMMISSION	المالما ا			Haught, Inc.
1615 WASHINGTO: CHARLESTON, WV		J	UN 3 0 198	30	Well Operator
TELEPHONE: (3	04) 349-3092	011	& GAS DIVIS	IOLR"	Manen R. Danaht
					President
		total Barret B B	of Second S . E T S E	II II SHOWN WHILE	

FORM IV-2 (Reverse)

PROPOSED WORK ORDER

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

DRILLING CON	TEACTO!	R (IF	KNOWN)	F	Haught, Inc.			
	e f			Address	Smithville	, WV 2617	8	
GEOLOGICAL TARGET FORMATION, Devonian Shale								
							Rotary X	Dable tools
							t,feet.	
Approxi	mate co	oal sea	am dept	hs:	None	s coal being	mined in the are	at Yes No X
CASING AND T	TIRTNO :	POCRA						
CASING OR			IFICATI	ONS	FOOTAG	E INTERVALS	DOEMENT FILL-Y	PN - PACKERS
TUBING TYPE	11		Weight	1			OR SACKS	
Conductor								Kinds
Fresh water	8 5/8	K-55	20#	X	200'	200'	75 sacks	
Coal								Sizes
Intermediate								
Production	4½	J - 55	10.5#	X		3500'	100 sacks	Depths set
Tucing		-		-				
Liners								Perforations:
						-		Top Bottom
						-		
and sally a second	Н	1 -4						
by Regulation 11, (it) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-12, (iti) Form IV-3, "Reclaration Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (y) if applicable, the consent required by Code § 22-4-3a from the owner of any water well or dwelling within 200 feet of the proposed well. A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith. 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 for								
The following waiver must be completed by the coal operator and by any scal sympton or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof: WAIVER								
Date:			, 19_			197.		
						Ву		40

Form IV-9 (01-80)

D.	ate	June	27		19 80
Well	No.	H-1	020		
API	No.	47	_	073	- 891
		State	7	ounty	Permit

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS

•	ville, WV 26	5178	Addre	-	thville,	-
Telephone 477-3	333		Telepl	-	77-3333	-
ndowner Charle	es J. Pethtel		Soil Cons.	Distric	t Upper	Ohio
Revegetation to b	e carried out	by	W. H.	raght		(Agent)
This plan has been	n reveiwed by	Upp	er Ofio	s	CD. All c	orrections
and additions bec	ome a part of	this plan		80	Lamel	KR Mason
			/(Date	e)	(SCL	Agent)
Access	Road			Locati	on	
ructure Culvert		(A)	Structure	Interc	eptor Ch	annelli
acing 100'			Material			
ige Ref. Manual 1:	:8		Page Ref.			
ructure N/A		(B)	Structure	N/A		(2)
		· - /	Material			(-)
ige Ref. Manual			Page Ref.	Manual		
ructure N/A		(C)	Structure			
.aaina			Material			
age Ref. Manual			Page Ref.			
All structures sho	ent Area I	Revegeta	tion	Treatmen	nt Area I	I
Treatme	ent Area I		Lime		-	<u>I</u> Tons/Acre
Treatme me or correct to ph	ent Area I To	Revegeta	Lime_ or corre	ct to pi	-	Tons/Acre
Treatme me or correct to ph rtilizer_500	ent Area I To	Revegeta	Lime or corre	ect to pi		Tons/Acre
Treatment or correct to ph cor	ent Area I 6.5 or equivalent;	Revegeta	Lime or corre Fertilizer	ect to pi	or equi	Tons/Acre lbs/acre valent)
me or correct to ph crtilizer 500 (10-20-20) lch Hay ed* Orchard grass	To 6.5 or equivalent; 2 To 2015	Revegetal ons/acre os/acre ons/acre os/acre	Lime or corre Fertilizer	ect to pi	or equi	Tons/Acrelbs/acre
me or correct to ph rtilizer 500 (10-20-20) lch Hay ed* Orchard grass Red Clover	6.5 or equivalent; 2 To 20.6 15.16	Revegetar ons/acre os/acre os/acre os/acre os/acre os/acre	Lime or corre	10-20-20	or equi	Tons/Acre lbs/acre valent) Tons/Acre lbs/acre lbs/acre lbs/acre
Treatme ime or correct to ph ertilizer 500	ent Area I 6.5 or equivalent; 2 To 2 To 3 201: 151: 16	Revegetar ons/acre os/acre os/acre os/acre os/acre os/acre os/acre os/acre os/acre	Lime or correct fertilizer Mulch Seed* Dil and clove amount. JUL 11 10 pographic m. L & GAS DIVI	ers with	or equi	Tons/Acre lbs/acre valent) Tons/Acrelbs/acrelbs/acrelbs/acre
Treatme or correct to ph ertilizer 500	ent Area I 6.5 or equivalent; 2 To 2 To 3 201: 151: 1t nes such as vet be with 3X reco	Revegetar ons/acre os/acre os/acre os/acre os/acre os/acre os/acre os/acre os/acre	Lime or correct fertilizer Mulch Seed* oil and clove amount.	ers with	or equi	Tons/Acre lbs/acre valent) Tons/Acrelbs/acrelbs/acrelbs/acre
Treatme or correct to ph ertilizer 500	ent Area I 6.5 or equivalent; 2 To 2 To 3 201: 151: 16	Revegetar ons/acre os/acre os/acre os/acre os/acre os/acre os/acre os/acre os/acre	Lime or correct fertilizer Mulch Seed* Dil and clove amount. JUL 11 10 pographic m. L & GAS DIVI	ers with	or equi	Tons/Acre lbs/acre valent) Tons/Acrelbs/acrelbs/acrelbs/acre
Treatme or correct to ph ertilizer 500	ent Area I 6.5 or equivalent; 2 To 2 To 3 201: 151: 1t nes such as vet be with 3X reco	Revegetar ons/acre os/acre os/acre os/acre os/acre os/acre os/acre os/acre os/acre	Lime or correct fertilizer Mulch Seed* Dil and clove amount. JUL 11 10 pographic m. L & GAS DIVI	ers with	or equi	Tons/Acrelbs/acrelbs/acrelbs/acrelbs/acrelbs/acrelbs/acre

#-1020.

Legend: Property Boundry

Road = = = =

Existing Fence - x - x - |

Planned Fence |

Stream | Open Ditch | Op

Diversion

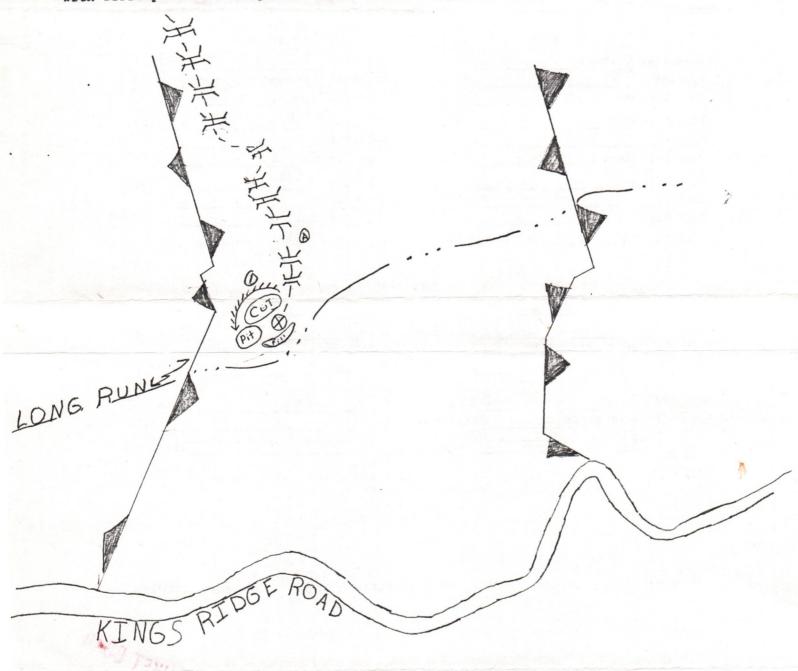
Spring O

Wet Spot O

Building Drain Pipe O

Waterway C

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.



The average slope was 11% because of the slope there shall be culverts placed every 100 feet to the well site. The brush will be cut and stacked to the well.

Signature: Manen P. Dangh Smithville, WV 26178 477-3333

Agent Address Phone Number

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

Date: September 15 , 19 80

Operator's Well No.

11 No. H-1020

API Well No. - - 073 - 891. Etate Dounty Permit

'Consinue in reverse side.

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

WELL OPERATOR'S REPORT & DRILLING, FRACTURENG AND/OR STEWULATENG, OR PHYSICAL CHANGE

WELL CADE.	24: X	/ :	25 X	/ 1139	id Injection	Waste :	Ciscosal	
AEDD -11-2.							Deep/	Shallow X /
LOCATION.					Watershed:			
							Quadrangle:S	chultz
	22522		ICKIM		Julius I I I Ca		es Pethtel H-	
WELL OPERA	TOR Har	ught,	Inc.		the second secon		Warren Warren	
Addre	ss Rt	. 3 Bc	x 14			Address	Smithville	, WV 26178
	Sm:	ithvil	le, WV	2617	8			A STATE OF THE SECOND STAT
PERMITTED					/ Drill deep			
					in well (specify		Comp force	SEP 2 9 1980
	.0	c. p	Jarour					JLI SO 1000
			-					OH-& GAS DIVISION
PERMIT IS:	SUED ON _	July	14	,	19.80 ,	DE GAS IN	SPECTOR FOR THE	EPT. OF MINE
(IF APPLI	INUCUE PE	COGRESS!	C: FF.C:	. DF1				
REWC:	RKING. V				INED			3-Dodd Street
			_, 19					n, WV 26149
								50 to 4010 feet
Depti	n of comp	leted :	well, 4	010	feet Rc	tary_X_/	Cable Tools	_
Water	r strata	depth:	Fresh,		feet; salt,	feet.		
Coal	seam dep	ths: _	None		Is coal b	eing mined in	the area? No	-
Work	was comm	enced	July 3	, 1980	, 19,	and complete	ad August 13	, 19_80_
CASING AN					V 7007167			PACKERS
TUBING TY	PE	SPEC	Weight	I I	FOOTAGE	l-act in uni	CEMENT FILL-U OR SACKS 1 (Cubic feet)	
Conductor	11		leer	X		20'	II .	Kinds
	H	1 100	-	1	11		150 sacks	1
Fresh wat	110-3	/4		X -	311	311	150 Sacks	
Ccal	-							Sizes
Intermedia	11	1				3898'	215 520/5	1
Production	141	13-55	110.5	X		3090	315 sacks	lettes set
Tubing	-							4
liners	- 11	-					1	Ferforations:
		-						Top Bottom
		-	-				11	3564 3887
CPEN FLOW	7:71							
					- Chala		Day zone dert	:3550 to 4010 feet
							al open flow, _	
							cpen flow,	
							ests, 8 hour	
						measurement)) after <u>12</u> ho	urs shut in
			*		pletion]			
Seco								nfeet
							al open flow,	
	F1	nal op	en flow,		Mcf/d	Final	open flow,	Bc1/á
		71=	e of ope	en flow	between initial	and final te	ests, hour	3
	Statio :	rock pr	essure,		_ psig (surface	messurement.	efter ho	urs shut in

NM IN-35 everse) 8-78]

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

Nitrogen fraced by B.J. Hughes--8-22-80--810,000 SCF. 750 Gal. Acid

Perforations: 23--3564--3887

LL LOG

FORMATION	Color	llard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
FORMATION			A Part of the		
Clay			0	10	
Red Rock/Sand	1000		10	723	
Sand/Shale	The second		723	870	The part of the second of the
Shale	E and war		870	915	
Red Rock			915	923	
Sandy Shale	and the second second		923	949	The trivial and the second
Red Rock			949	962	
Shale	-	1	962	974	
Sand			974	994	
Red Rock	100		994	1002	
Sandy Shale			1002	1055	
Shale			1055	1080	
Sand		-	11080	1145	
			1145	1220	
Shale	BITT .		1220	1265	
Sand		Marie Land	1265	1420	
Shale	The second	The amount	1420	1460	
Sand			1460	1480	
Shale	A Company		1480	1503	
Sand				1666	
Shale			1503		:
Sand		· /-	1666	1782	
Shale			1782	1820	
B. Lime			1820	1869	
Sand			1869	1989	
Shale/Sand	-	A STATE OF THE PARTY OF	1989	2683	
Shale			2683	2740	
Sand			2740	2804	
Shale			2804	3018	
Sand			3018	3030	
Shale		The second	3030	3091	
Sand	A Company		3091	3120	
Shale			3120	3210	
		11.00	3210	3254	
Sand			3254	3508	
Shale			3508	3550	
Sand			3550	3695	
Shale			3695	3750	
Sand			3750	3790	
Shale			3790	3810	
Sand				3880	
Shale			3810		T.D.
Sand	the same of the same of		3880	4010	1.0.
	242124	The second	1		
		and the state of			
			1		
			18 5 5 5 5		
		At a second		The state of the state of	and the state of t
		- Carlo			
	ext Market and			-	

Regulation 2.02(i) provides as follows: OTE:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the

Haught, Inc. Well Operator

Its President

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 75-877			Oil or	Gas Well	
Company Haughts Inc.	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PA	CKERS
Address Smeltwelle WE	la Size				
Farm Lethliff	16			Kind of Pa	acker
Well No. # - 1020	13	3//	511	Sign of	
District McKin County Hour	81/4.			5126 01_	
Drilling commenced	65/8			Depth set,	
Drilling completedTotal depth_3//	5 3/16				
Date shotDepth of shot					om_
Initial open flow/10ths Water in	Inch Liners Used				
Open flow after tubing/10ths Merc. in	Inch			Perf. botto	om
VolumeCu.	.Ft. CASING CEMEN	TED 10 5	Size 5/	No. FP	Zg-Sto Date
Rock pressurelbs	hrs. NAME OF SER	VICE COMPAN	VY Way	at	
0:1bbls., 1st 24	130 20				INCHES
Fresh waterfeet	feetFEET_	INCHI	ES	FEET	INCHES
Salt waterfeet	feetFEET_	INCHE	ES	FEET	INCHES
Drillers' Names					
			REC	EIV	EM
Remarks:			AUG	G 1 3 1980	

OIL & GAS DIVISION DEPT. OF MINES





OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia

Department of Mines Gil and Gas Division Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT August 1, 1984

	August 1, 19	84	
COMPANY			073-0891 (7/14/80)
	Route 3, Box 14	FARM & WELL NO	Charles Pethtel #H-1020
	Smithville, West Virginia 26178	DIST. & COUNTY	McKim/Pleasants
			COMPLIANCE
RULE	DESCRIPTION	YE	S NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent	Waste	V
25.03	High-Pressure Drilling		V,
16.01	Required Permits at Wellsite		V
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01 15.04	Adequate Production Casing Adequate Cement Strenght		
15.04	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution		
23.07	Requirements for Production & Gather	ing Pipelines	V
16.01	Well Records on Site		1/
16.02	Well Records Filed		<u> </u>
7.05	Identification Markings		
I HAVE	INSPECTED THE ABOVE CAPTIONED WELL AND	RECOMMEND THAT I	I BE RELEASED:
		SIGNED A	Louthe
		1111	
		DATE aug	21,1984
Your we	ll record was received and reclamation	requirements app	roved. In accordance
	apter 22, Article 4, Section 2, the abo		
coverag	e for the life of the well.	-11	· Al
		111.	110
			Oil & Gas Division
mı	0.1-1-	September	13, 1984
TM	S/chm		

FERC-121

1.0 API well number: (If not available, leave blank, 14 digits.)	47-073- Q -891- 0000 SEP 2
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA Category Code ON & GA
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4010 feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Glenn L. Haught & Sons Name
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	McKim District Field Name Pleasants WV County State
(b) For OCS wells:	N/A Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number
(c) Name and identification number of this well: (35 letters and digits maximum.)	Charles Pethtel H-1020
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Devonian Shale Cla pu Juliu
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Das Dransmission - from Mrs. Waught Consolidated Gas Supply Corporation 004228 Name Buyer Code
(b) Date of the contract:	Contract Applied For Mo. Day Yr.
(c) Estimated annual production:	15MMcf.
	(a) Base-Price (b) Tax (c) All Other (d) Total of (a) (S/MMBTU) (Frices [Indicate (b) and (c) (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.)	2.29327701 _ 2.580
9.0 Person responsible for this application: Agency Use Only	Warren R. Haught Agent & Co-Owner Title

FICTPANTS: DATE: Feb 19 1981	BUYER-SELLER CO
ELL OPERATOR: Glenn L. Haught & Sons	008265
RST PURCHASER: Columbia Das Transmission Corp.	004228
THER:	-
WELL DETERMINATION FILE NUMBER	
Use Above File Number on all Communications Relating to Determination of this Well 2 Malifies J. Hurry	
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
M NO.	
FERC -121 Items not completed - Line No.	
2. IV-1 Agent Warren R. Haught	
3. IV-2 Well Permit	
4. IV-6 Well Plat	
5. IV-35 Well Record Drilling Deepenin	g
6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced?	Ratio
7. IV-39 Annual Production years	
8. IV-40 90 day Production Days off line:	
9. IV-48 Application for certification. Complete?	
17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Aft	fidavit Signed $\overline{\mathcal{V}}$
28. Other: Survey Logs Geological Charts	
Structure Map 1: 4000 Map Well Tab	
5) Date commenced: 7-3-80 Date completed 8-13-80 Deeper	ned
5) Production Depth: 3550-4010	•
5) Production Formation: Devonian Shale	
5) Final Open Flow: 175 M.	
5) After Frac. R. P. <u>850</u>	
6) Other Gas Test:	
7) Avg. Daily Gas from Annual Production:	
8) Avg. Daily Gas from 90-day ending w/1-120 days	
	IG from Daily Rep
5) Oil Production: No From Completion Report	- Dally kep
7. Does lease inventory indicate enhanced recovery being done	
. Is affidavit signed?Notarized?	
official well record with the Department confirm the submitted information	on?
cional information Does computer program confirm?	
Decermination Objected toBy Whom?	
SB.	

RM 1V-54WC

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

tate Septe	ember 22	19_80
Operator's Well No.	H-1020	
API Well No. 47 -	073	- 891 Permit

)6

WELL CLASSIFIC	CATION FORM
NEW ONSHORE PRO	요즘 교육하다. 귀하는 생생님, 2차 집 모든 경우 가장한 사람들이 되었다. 그는 그 그 그 그 그 그 그는 그 그는 그는 그는 그는 그는 그를 보는 것이다.
∷GPA Sectio	n 103
	DESIGNATED AGE: Warren R. Haught
	ADDRESS Smithville, WV 26178
	LOCATION: Elevation 902'
LL OPERATOR Glenn L. Haught & Sons	
DRESS c/o Warren R. Haught, Agent	Dist. McKim County Pleasants Quad. Schultz WV 7
Smithville, WV 26178	hin Das Zrans.
Smithville, WV 26178 s purchaser Consolidated Gas Supply Cor	Contract No. Applied For
DRESS	nete: one
Clarksburg, WV 26301	Date of Contract
	* * * * * * * * *
* * *	하나 시간 경기 가게 되었다. 그 없었습니다 하는 그 것이다.
ate surface orilling was begun:Ju	ly 3, 1980
ndicate the bottom hole pressure of the well a	and explain now this add the
Bottom Hole Pressure - 850 Lbs.	
	e equal to the maximum Rock Pressure of the well
after hydraulic fracturing was complet	ced and well was cleaned up.
il oci il juliane	경하였다. [1882] 그 사람이 많아 보는 사람이 되었다.
AFFIDA	The state of the s
urface drilling of the well for which this of 977; the well satisfies applicable state or forthin a proration unit, in existence at the treservoir from which gas is or will be produced in commercial quantities or on which surface do no commercial quantities or on which surface do not not not not not not not not not no	ving been first sworn according to law state that termination is sought was begun on or after February 14. ederal well spacing requirements and the well is not ime surface drilling began, which was applicable to the d and which applied to any other well producing ras willing began on or after February 19, 1977, and which notities. I state, further, that I have concluded, to ef. that the well for which this determination is sought not aware of any information not described in the onclusion.
	Wanen R. Haught
그 그 이번째 그 부가 그 내용했다고 있는데 없는	
STATE OF WEST VIRGINIA.	
COUNTY OFRitchie TO WIT:	
I enna G. Haught a Not	tary Public in and for the state and county aforesaid.
Warren B Haught, whose no	ame is signed to the writing above, bearing date
do certify that marron no made on her	acknowledged the same before me, in my county aforesaid.
the 22 .day of September . 17 80 mas	seal this 22 day of September . 19 80.
Civen under my hand and official	18th day of May . 19 86
My term of office expires on the	18th day of <u>May</u> . 19 86

TROTARIAL SEALI



PARTICIPANTS: DATE: JUN 0 1981 BUYER-SELLER C
WELL OPERATOR: Haught Inc. % Warren R: Haught 008270
FIRST PURCHASER: Columbia Gas Trans Corp. 004030
OTHER:
W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER Hold for tight fernation definition
81-2-04-107-073=0891
Usa Above File Number on all Communications Lualifies James
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. A/1 7.0 2. IV-1 Agent / Warren R Haught
3. IV-2 Well Permit /
4. IV-6 Well Plat /
5. IV-35 Well Percent /
6. IV-36 Gas-Oil Test: Gas Only
7. IV-39 Appual Production
8. IV-40 90 day Production Days off line:
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
Structure Man
Gas Analyses Well Tabulations (5) Date commenced: 7 -3 - 80 Date completed 8 -13 - 80 Deepened
(5) Production Depth: 3 5 50 - 4016
(5) Production Formation: Devonian Shale
(5) Final Open Flow: 175 mCF
(5) After Frac. R. P. 850 # 12 hrs.
(6) Other Gas Test:
(7) Avg. Daily Gas from Annual Production:
(8) Avg. Daily Gas from 90-day ending w/1-120 days
(8) Line Pressure: PSIG from Daily Re
From Completion Report
Does lease inventory indicate enhanced recovery being done
Notarized?
es official well record with the Department confirm the submitted information?
Does computer program confirm?
s Determination Objected to By Whom?
1.

BUYER-SELLER CODE

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

July 2	
H-1020	

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 Glenn L. Haught & Sons	LOCATION Elevation 902
ADDRESSC/o Warren R. Haught	Watershed Long Run
Smithville, WV 26178	Dist McKim County Pleasants TuadSchult:
GAS PURCHASER Columbia Gas Trans. Corp. ADDRESS P. O. Box 1273	Gas Purchase Contract No. AP-25283
Charleston, WV 25325	Meter Chart Code Date of Contract March 3, 1981
	e ar ar ar ar ar
Date surface drilling began July 3, 198	
Indicate the bottom hole pressure of the well and	explain how this was calculated.
Bottom Hole Pressure = 941 psig	Pwh=850psig
Pws=Phs e $\frac{.01875 \text{ SG D}}{Z \text{ T}}$	SG = .7 D = 3725 Z = .86
	T =557
AFFIDA	VIT
Warren R. Haught, having been	first sworn according to law, state that, I have calculated
the percentage of footage of the producing interval which less than 0.7 if a Gamma Ray log described subparagraph (3 port described in subparagraph (3)(ii)(B); I have demonstrance shale footage is equal to or less than five (5) percent of	is not Devonian shale as indicated by a Gamma Ray index of)(i) or (3)(ii)(A) has been filed, or as indicated by the re-
STATE OF WEST VIRGINIA.	
COUNTY OF Ritchie TO WIT	
the 2nd day of July . 19 81, has aforesaid.	acknowledged the same before me, in my count at this $2nd$ day of $July$, 1981.
	Lenns & Flaught
[NOTARIAL SEAL]	



