Trans Great

KF 7-14-80

Date: July 9, , 19 80

H-1019

Operator's Well No. API Well No. 27 - 073 - 0897 State County Permit

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: 011 X / Gas X /	
(If "Gas", Production X / Undergre	ound storage Deep Shallow_X
LOCATION: Elevation: 1098' Watershe	d: Long Run
District: McKim County:	Pleasants Quadrangle: Schultz, WV 71'
WELL OPERATOR Haught, Inc.	DESIGNATED AGENT Warren R. Haught
Address Route 3, Box 14	
Smithville, WV 26178	
Saltonville, we bely	
OIL & GAS Chanles I Bothtel	COAL OBERATOR N
ROYALTY OWNER Charles J. Pethtel	
Address 5451 Ashford Road	Address
Dublin, Ohio 43017	
Acreage 128.47	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER _ Same as above	Name
Address	Address
Acreage	Name
FIELD SALE (IF MADE) TO:	Address
Name	
Address	COAL LESSEE WITH DECLARATION ON RECORD:
*	Name None
OIL & GAS INSPECTOR TO BE NOTIFIED	Address
Name Phillip Lee Tracy	
Address P. O. Box 173 - Dodd Street	
Middlebourne, WV 26149	
	ed to operate for oil or gas purposes at the above
location under a deed/ lease/ other undersigned well operator fromZedack Pethte	contract X / dated August 27, , 1979 , to the
location under a deed/ lease/ other undersigned well operator from Zedack Pethte [If said deed, lease, or other contract has been	contract X / dated August 27, , 1979 , to the
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PROPOSED WORK ORDER

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

DRILLING CO	NTRACTO	R (IF				ght, Inc.			
	V	•		Addr	ess S	mithville,	WV 26178		
15	•								
GEOLOGICAL T	TARGET	FORMAT	ION, _			Devonian S	Shale		
Estimat	ed dep	th of	complet	ed we	ell, _	3500	feet	Rotary_X/	Cable tools
Approxi	Lmate w	ater s	trata d	epths	s: Fr	esh, 50	Ceet; salt	, feet.	
Approxi	Lmate c	oal se	am dept	hs:	No	one Is	coal being m	ined in the are	at Yes / Na X
CASING AND T	TUBING	PROGRA	M						
CASING OR TUBING TYPE		1	IFICATI Weight	1	1	FOOTAGE		CEMENT FILL-Y	
Conductor	Size	Grade	per ft	New	Used	For drilling	Left in well	(Subic feet)	
Fresh water	8 5/8	K-55	20#	Х		200'	200'	75 sacks	Kinds
Coal				-		7			Sizes
Intermediate			11/4						Sides
Production	41/2	J - 55	10.5#	X	1		3500.	100 sacks	Depths set
Tucing		3							
Liners									Perforations:
									Top Bottom
					-				
. /	1								
the co	fractuited as T MUST T MUST	require the present of the present o	te Form r stimu n the F Costed coordance location This enced by	AT The win is he perm	THE V	the jee required a from the last part of the part of the part of the part of the last part	rea by Code 9 owner of any	22-4-12a, and water well or cturing or stim	the form presented in the in the interior Plan", (iv) unless (v) if applicable, dwelling within rulating a well to is sought and
or is	e under examination, the	essee issued signed ed thi well 100 be do	who has within coal o s propo ocation one at	peratised was	tor_well I	a declaration (15) days of WAIVE (15) days of WAIVE (15) owner (15) added to the dion, provided	n under Code receipt there lesse a mine map et mine men. Ti	e/ of the xists which sow the undersigned	coal owner the permit coal under this well ters the area of the has no objection to uplied with all
Date:			, 19	_					
							Ву		•

D	ate	Jul	y 3		19 8	0
Well	No.		H-	1019		
API	No.	4.7	-	073	-	0897
		State	7	ounty		Permit

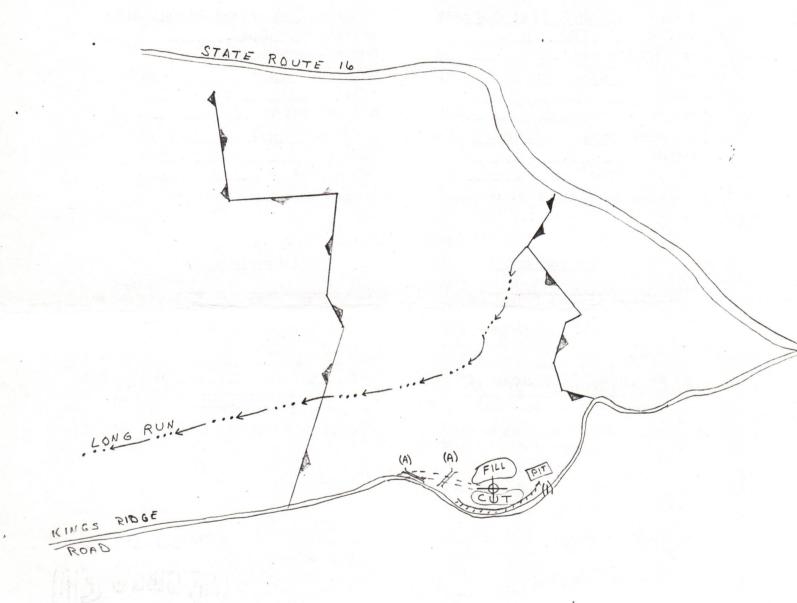
	OFFICE OF C	OIL AND GAS	
Company Name Hai	ught. Inc.	Designated Agent War	ren R. Haught
Address Smit	thville, WV 26178	Address Smithy Telephone	rille, Wv 26178
Landowner Char	rles J. Pethel	Soil Cons. District	Upper Ohio
Revegetation to	be carried out by	Warren Hays	4+ (Agent) ···
This plan has b	peen reveiwed by	n. 7/1/20 scb.	All corrections
Acce	ess Road	Location	
Structure Ditch Spacing 20	Relief Culvert	Structure <u>Interce</u> Material <u>Soil</u>	
Page Ref. Manual_	1:8	Page Ref. Manual 1	:11
Structure N/A Spacing	(B)	Material	
Page Ref. Manual_		Page Ref. Manual	
Structure N/A Spacing	(C)	Structure N/A Material Page Ref. Manual	(3)
Page Ref. Manual		Page Ref. Manual	
limo	Tops/acre	Treatment .	
or correct to p	Tons/acre	Lime or correct to pH	Totts/Acre
0.7	D lbs/acre	Fertilizer (10-20-20 o	lbs/acre
Fertilizer 200 (10-20-	-20 or equivalent)	(10 20 20 0	r equivalent)
Fertilizer 200 (10-20-	2 Tons/Acre	Mulch	Tons/Acre
Fertilizer 200 (10-20-	2 Tons/Acre	MulchSeed*	Tons/Acre
Mulch Hay Seed Kentucky Red Cloves	2 Tons/Acre 31 Fescue 30 lbs/acre 1 bs/acre	Seed*	Tons/Acre ibs/acre lbs/acre lbs/acre
Mulch Hay Seed Kentucky Red Cloves *Inoculate all lebacterium. Inocu	2 Tons/Acre 31 Fescue 30lbs/acre 1 bs/acre 1bs/acre	e Mulch	Tons/Acre ibs/acre lbs/acre lbs/acre
Mulch Hay Seed Kentucky Red Cloves *Inoculate all lebacterium. Inocu	2 Tons/Acre 31 Fescue 30lbs/acre 5 lbs/acre lbs/acre egumes such as vetch, tre late with 3X recommended	e Mulch	Tons/Acre ibs/acre lbs/acre lbs/acre ne proper
Mulch Hay Seed Kentucky Red Cloves Winoculate all lebacterium. Inocu	2 Tons/Acre 31 Fescue 30lbs/acre 15 lbs/acre 1bs/acre 2 pumes such as vetch, tre 1 late with 3X recommended	e Mulch	Tons/Acre
Mulch Hay Seed Kentucky Red Cloves Winoculate all lebacterium. Inocu	2 Tons/Acre 31 Fescue 30lbs/acre 1bs/acre 1bs/acre 2 pumes such as vetch, tre plate with 3X recommended 3 well Site	e Mulch	Tons/Acre lbs/acre lbs/acre lbs/acre he proper Tons/Acre lbs/acre lbs/acre lbs/acre lbs/acre

OIL & GAS DIVISION EPT. OF MINES

Legend: Property Boundry
Road = = = =
Existing Fence - × - × - - - × - - - × - - × - - - × - - × - - × - - × - - × - - × - - × - - × - - × - - × -

Diversion
Spring O
Wet Spot
Building
Drain Pipe
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:	5% Slope.	Cut and	Pile brush	and	trees	before	
AIM TO	grading w	ell site.					
Simotura	anen R.	Hancht	twille Ww	26	178	1.77-3333	_

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

Date: September 22 , 1980 Operator's Well No. _

H-1019 API Well No. -7 - 073 - 0897.

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

WELL OPERATOR'S REPORT OF DETLLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE:	ori_X	_/. 3	as X	/ -	19414	Indection	Waste	e Disposal	
	/If "Ga	s", ?:	edusti:	- X		Underground s	::::::::::::::::::::::::::::::::::::::	_/ Deep/	Shallow X /
LOCATION:	Elevati	.on: _1	0981		_ ~	atershed: Lo	ng Run		
	Distric	:: _ M	cKim	17.1	_ :	ounty: Pleas	ants	Quadrangle: Sc	hultz, WV 7½
						Pet	thtel H-10	019	
								Warren	
Address	Rt.						Addres	ss <u>Smithville</u>	, WV 26178
	Smi	thvil	le, WV	26	178				
DEDWINGED W	-37. n=	у у	,	- 1/2		/ Orill deep	er / 5	Redrill/	ICCLEUM SIN
PERCILED W.	ים אות.	<u>A</u>				/ Perform	te new form	mation/	
	2.		'			well (specify	.)		SFP 2 9 1980
	0.	,e. p	,,,,,,,,			well (opening			3EP & 3 1300
									OH & GAS DIVISION
							OIL & GAS	INSPECTOR FOR THE	SQUER GAS DIVISION
(IF APPLICA	BLE: P	LUGGING	OF DRY	HILE	11113				EPT. OF MINE
REWORK	ING. V	ERBAL E	PERMISSI	:::: ::	TAINE	D	Addre	ss P.O. Box 17	
			_, 19						e, WV 26149
								Depth 355	
Depth	of comp	leted ?	well, _	4008	1	feet Ro	tary_X_/	Cable Tools	_
Water	strata	depth:	Fresh,		fee	t; salt,	feet	•	
Coal s	eam dep	ths: _	None		2.12.	_ Is coal b	eing mined	in the area? No	
Work w	as comm	enced :	August	20			and comple	ted <u>September 1</u>	6 , 19 <u>_80</u>
CASING AND						7007177			- 11
CASING OR TUBING TYPE	:	SFEC	Weight	1	1	FOOTAGE	I. ERVALS	OR SACKS	FACHERS
	Size	Grade	rer ft	New	Used	For drilling	left in w	CR SACKS ell (Cubic feet	1
Conductor	11						-		Kinds
Fresh water	18-5/8	K-55	20#	X		3581	358'	150 sacks	11 .
Ccal			-					1	Sizes
Intermediat	11								!
Production	41/2	J-55	10.5#	X			3968'	440 sacks	Depths set
Tubing								1	1
Liners									Ferforations:
	-								Top Bottom
		-					-		3666 3920
	1								1
OPEN FLOW D									
					D	evonian Sh	ale	Par zone der-	: 3555 to 4008 feet
								ial open flow,	
,								l open flow,	
								tests, 8 hour	
							measuremen	t) after <u>12</u> ho	urs Enut in
	pligabl.			-					
									hfeet
3								ial open flow,	
								1 open flow,	the state of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section of the second section is a second section of the section of the second section of the section of the second section of the
								tests, hour	-
2	tatio r	ook pre	25170,		F	sig (surface	measuremen	t: after ht	urs shut in

(Heverse) [08-78]

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

Nitrogen fraced by B.J. Hughes -- 9-2-80 -- 900,000 SCF Nitrogen 500 Gal. Acid

Perforations: 19--3666--3920

ELL LOG

Clay Red Rock/Sand Sand/Shale Shale Red Rock Sand/Shale Red Rock Red Rock Red Rock Sandy Shale Red Rock Shale Shale Shale Sandy Shale Red Rock Shale Sand Shale Sand Shale Sand Sand Shale Sand Sand Sand Sand Sand Shale Shale Sand Shale Shale Sand Shale Sand Sand Sand Sand Sand Sand Sand Sand	FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Shale Sand Shale Shal	Clay Red Rock/Sand Sand/Shale Shale Red Rock Sandy Shale Red Rock Shale Sand Red Rock Sandy Shale Shale Sand	COLOR	3011	0 15 728 875 920 923 954 964 979 993 1060 1151 1218 1270 1425 1482 1500 1660 1788 1817 1867 1990 2679 2743 2803 3015 3087 3122 3256 3553 3690 3753 3787 3813	15 728 875 920 923 954 964 979 993 1004 1060 1080 1151 1218 1270 1425 1458 1482 1500 1660 1788 1817 1867 1990 2679 2743 2803 3015 3025 3025 3025 3025 3025 3025 3025 302	

Regulation 2.02(i) provides as follows: OTE:

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

Its President





Department of Mines Gil and Gas Division Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT August 1, 1984

RECEIVED AUG 2 3 1984
AUG 2 3 1984 OIL & GAS DIVISION
DEPT. OF MINES

COMPANY	Haught, Inc.	PERMIT NO	07	3-0897	(7/	18/80)
Route	e 3, Box 14	FARM & WEI	L NO	Charles	3 J.	Pethte1#H-1019
Smith	nville, West Virginia 26178	DIST. & CO	UNTY	McKim/	Plea	sants
				COMPLIAN	NCE	
RULE	DESCRIPTION		YES	5	NC)
23.06	Notification Prior to Starting Work					
25.04	Prepared before Drilling to Prevent W	laste				
25.03	High-Pressure Drilling			V		
16.01	Required Permits at Wellsite			V		
15.03	Adequate Fresh Water Casing			1/		
15.02	Adequate Coal Casing					
15.01	Adequate Production Casing					
15.04	Adequate Cement Strenght			0		
15.05	Cement Type		of the same	1/		
23.02	Maintained Access Roads			1/		
25.01	Necessary Equipment to Prevent Waste			V		
23.04	Reclaimed Drilling Pits			11		
23.05	No Surface or Underground Pollution			U,		
23.07	Requirements for Production & Gatheri	ng Pipelines				
16.01	Well Records on Site			1/		
16.02	Well Records Filed			0		
7.05	Identification Markings			V		
I HAVE	INSPECTED THE ABOVE CAPTIONED WELL AND	RECOMMEND TH	AT IT	BE RELE	EASED	21
		SIGNED A	H	Low	M	ble
		DATE CA	eg	21,1	198	F4_

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

Administrator-Oil & Gas Division

September 13, 1984

TMS/chm

DATE

1.0 API well number:	47-073-0-089	7-0000
(If not available, leave blank. 14 digits.)	0	85980 1980
Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	Category Code
		OR & GAS SIVER
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	40081	feet
4.0 Name, address and code number of	Glenn L. Haught & Sons	00 826
applicant: (35 letters per line maximum. If code number not available, leave blank.)	Name c/o Warren R. Haught	Seller Code
available, leave blank.	Street	WV 26178
	Smithville,	State Zip Code
5.0 Location of this well: [Complete (a)	District	
or (b).]	McKim District Field Name	
(a) For onshore wells (35 letters maximum for field	Ritchie Pleasanto	WV
name.)	County	State
(b) For OCS wells:	I N/A	
	Area Name	Block Number
	Date of Lease:	
	ا ليسيا	OCS Lease Number
	Mo. Day Yr.	OCS LESSE WITHOUT
(c) Name and identification number of this well: (35 letters and digits maximum.)	Charles Pethtel H-1019	_
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Shale	chy pu l
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not	Columbia Sas Irans	chg per l mission - from Mr. Ha Corporation Buyer Code
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits	Columbia Das Draus Consolidated Gas Supply Name Contract Applied For	Corporation Co 42
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Sas Irans Consolidated Gas Supply- Name Contract Applied For	Corporation Buyer Code
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract:	Columbia Das Draus Consolidated Gas Supply Name Contract Applied For Mo.	Corporation Buyer Code Day Yr.
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract:	Columbia Sas Draws Consolidated Gas Supply Name Contract Applied For Mo. 15	Gorporation Buyer Code Day Yr. MMcf. (c) All Other Prices [Indicate (b) and (c)
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract: (c) Estimated annual production: 7.0 Contract price: (As of filing date. Complete to 3	Columbia Sas Draws Consolidated Gas Supply Name Contract Applied For Mo. 15	Gorporation Buyer Code Day Yr. MMcf. (c) All Other Prices [Indicate (b) and (c)
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract: (c) Estimated annual production: 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	Consolidated Gas Supply Name Contract Applied For Mo. 15 (a) Base Price (S/MMBTU) (b) Tax	Gorporation Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 C
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract: (c) Estimated annual production: 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.)	Consolidated Gas Supply Name Contract Applied For Mo. 15 (a) Base Price (S/MMBTU) (b) Tax 2.29327 Warren R. Haught Name Manson R. D.	Gorporation Buyer Code Day Yr. MMcf. (c) All Other Prices [Indicate (+) or (-).] (d) Total of (b) and (c)
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract: (c) Estimated annual production: 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.) 9.0 Person responsible for this application: Agency Use Only	Columbia Sas Draws Consolidated Gas Supply Name Contract Applied For Mo. 15 (a) Base Price (S/MMBTU) (b) Tax 2.29327 Warren R. Haught	Gorporation Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 Buyer Code Cook 2 C

and the second of the second o	DATE: FEB 191981	
ARTICIPA	PANTS:	BUYER-SELLER CO
MELL OF	PERATOR: Flenn L. Haught & Dons	008265
FIRST I	PURCHASER: Olymbia Dis Transmussion Corp.	004228
OTHER:		-
	Department of Mines, Oil & Gas Division CK map LL DETERMINATION FILE NUMBER A 220 > 1300'	Gardon 2881-3150 7 3820 mot ok
-	926.103.073:0897	TP 2120 of shallower
Usa: Ab	pove File Number on all Communications ating to Determination of this Well 2 Malighes 9 Har	0 4000 not okdilliker
	CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	<u>. </u>
TEM NO.		
	IV-1 Agent () Caren R. Hought	
	IV-2 Well Permit	
	IV-6 Well Plac	
	IV-35 Well Record Drilling	Pagazina
	IV-36 Gas-Oil Test: Gas Only Was Oil Produced	Deepening Ratio
	IV-39 Annual Production years	Nac10
8. 1	IV-40 90 day Production Days off line	:
	IV-48 Application for certification. Complete?	
	IV Form 51 - 52 - 53 - 24 - 55 - 56 - 57 - 58 Complete?	Affidavit Signed
	Other: Survey Logs Geological Ch	
	Structure Map 1: 4000 Map Gas Analyses	
(5) D	Date commenced: 8-20-80 Date completed 9-16-80	Deepened
	Production Depth: 3555 - 4008	
(5) P	Production Formation: Devonian Shalo	
	Final Open Flow: 85 M.	
(5) A.	After Frac. R. P. 650	
(6) 0	Other Gas Test:	
	avg. Daily Gas from Annual Production:	
(8) A	avg. Daily Gas from 90-day ending w/1-120 days	
	ine Pressure:	PSIG from Daily Rep
(5) Oi	il Production: No From Completion Report	
-17. Do	oes lease inventory indicate enhanced recovery being done	
-17. Is	s affidavit signed? Notarized?	
es offic	cial well record with the Department confirm the submitted	
	l information Does computer program confirm	
; Decerm	mination Objected to 4 By Whom?	
	20,	

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

tare Septem	mber 22	 19 80
Operator's Well No.	H-1019	
API Well No. 47 - State	O73 County	0897 Permit

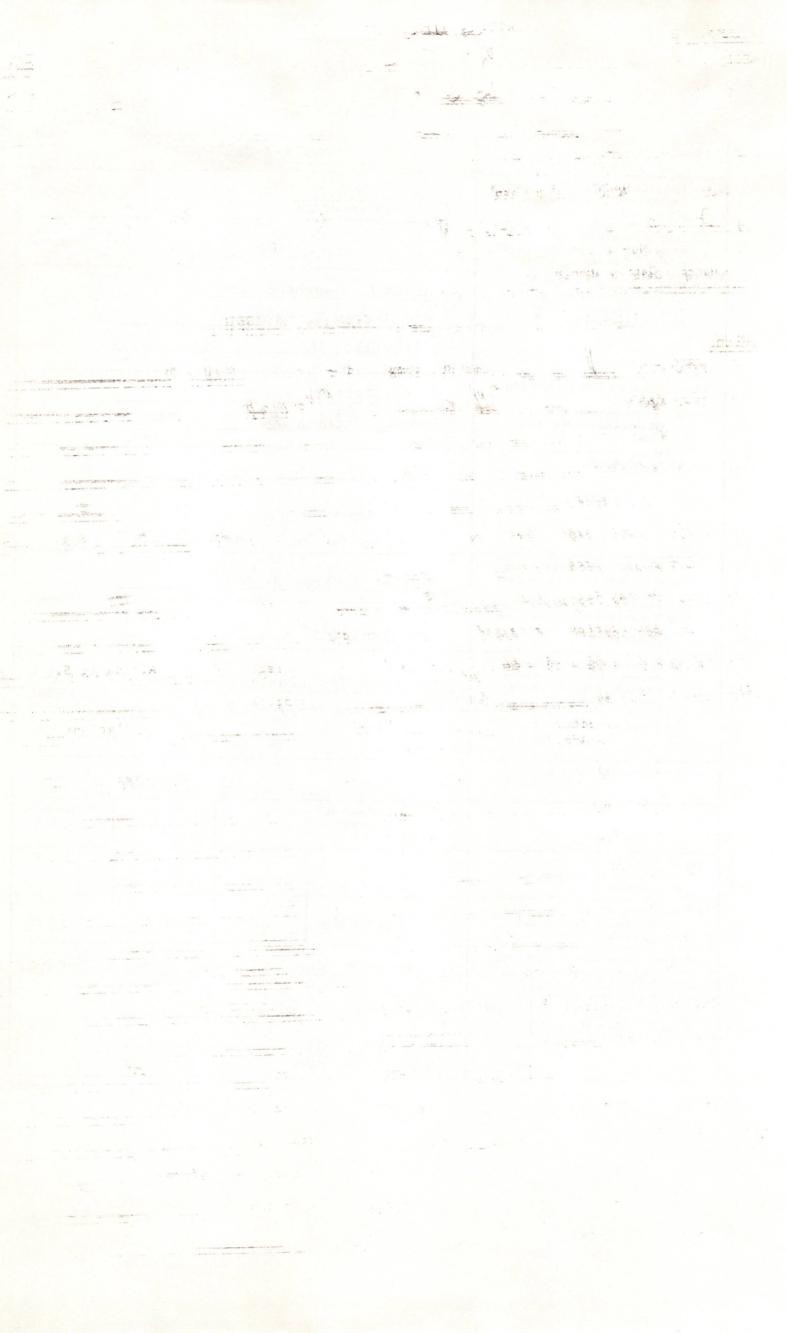
71/2 1

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
CGPA Section 103
DESIGNATED AGENT Warren R. Haught
ADDRESS Smithville, WV 26178
WELL OPERATOR Glenn L. Haught & Sons LOCATION: Elevation 1098'
ADDRESS C/O Warren R. Haught, Agent Natershed Long Run
Smithville, WV 26178 Countre Dist. McKim Country Pleasants Quad. Schultz, W
CAS PURCHASER Consolidated Gas Supply-Corpos Purchase
ADDRESS 445 West Main Street Meter Chart Code
Clarksburg, WV 26301 Date of Contract
* * * * * * * * * * * * * * * * * * * *
Date surface drilling was begun: August 20, 1980
Indicate the bottom hole pressure of the well and explain how this was calculated:
Bottcm Hole Pressure - 650 Lbs
Bottom Hole Pressure was assumed to be equal to the maximum Rock Pressure of the well after hydraulic fracturing was completed and well was cleaned up.
AFFIDAVIT
I. Warren R. Haught , having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 14. 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing ras in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion. Manuar R. Haught J. Manuar R. Haught Manuar R. H
That It. Hange
STATE OF WEST VIRGINIA,
COUNTY OFRitchie TO WIT:
I. Lenna G. Haught, a Notary Public in and for the state and county aforesaid.
do certify that Warren R. Haught, whose name is signed to the writing above, bearing date
the 22 day of September . 19 80 has acknowledged the same before me, in my county aforesaid
Civen under my hand and official seal this 22 day of September . 19 80.
My term of office expires on the 18th day of May . 19 86

CHARTAL SEALI

Lenna G. Haught

•	FERC-121	MEGGG	
1.0 API well number: (If not available, leave blank, 14 digits.)	47-073-2-0897-000	O SEE TOO	
Type of determination being sought: (Use the codes found on the front of this form.)	107 Tection of NGPA Care	gory Code 3 Gas s	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4008 feet OF M.N		
4.0 Name, address and code number of applicant: (35 letters per line	Glenn L. Haught & Sons	Sallas Code	
maximum. If code number not available, leave blank.)	c/o Warren R. Haught	Seller Code	
a	Street Smithville, WV City State	26178 Zip Code	
5.0 Location of this well: [Complete (a) or (b).]	McKim District		
(a) For onshore wells (35 letters maximum for field	Ritchie Pleasants	WV	
name.)	County	State	
(b) For OCS wells:	N/A Area Name Bio	ock Number	
	Date of Lease:		
	Mo. Day Yr. OCS Lea	se Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Charles Pethtel H-1019		
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Devonian 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.	
(b) Date of the contract:	Applied For Mo. Day Yr.		
(c) Estimated annual production:	15		
		_ MMcf. Other (d) Total of (a),	
	10/ 5030 / / / /	[Indicate (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.)	4.726604	0 1 5.340	
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency	Warren R. Haught	Agent & Co-Owner	
FEB 41981	Signature Signature		
Date Received by FERC	Jan. 30, 1981 477- Date Application is Completed Photo	3333 ne Number	



PARTICIPANTS: DATE: June 9 1981	BUYER-SELLER COD
WELL SPERATOR: Haught Inc. To Varren Ri Haught	008270
FIRST PURCHASER: Columbia Gas Trans Corp.	004030
OTHER:	
W. Va. Department of Mines, Oil & Gas Division	1.30%
WELL DETERMINATION FILE NUMBER	2 2 - 2 2
81-2-04-107-073:0897 Hold for tight formation a	definition
Use Above File Number on all Communications Relating to Determination of this Well Relating to Determination of this Well	Ry
Relating to Determination of this Well	8
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
ITEM NO.	
1. FERC -121 Items not completed - Line No	
2. IV-1 Agent / Warren R Haught	
3. IV-2 Well Permit √	1.
4. IV-6 Well Plat /	
5. IV-35 Well Record / Drilling Deepening	
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?	
10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Aff	
18-28. Other: Survey Logs Geological Charts	
Structure Map 1: 4000 Map Well Tab	ulations
(5) Date commenced: 8 20-80 Date completed 9 -16-80 Deepen	ed
(5) Production Depth: 3555-4008	
(5) Production Formation: Devonian Shale	
(5) Final Open Flow: 85 m CF	
(5) After Frac. R. P. 630# 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: PSI	IG from Daily Repo
(.5) Oil Production: From Completion Report	
0-17. Does lease inventory indicate enhanced recovery being done	•
)-17. Is affidavit signed? Notarized?	
es official well record with the Department confirm the submitted information	
ditional information Does computer program confirm?	
s Determination Objected to By Whom?	
1	

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date	July 2	 : 2 _ 8
Cpera	H-1019	

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 1098!
ADDRESSC/o Warren R. Haught	Watershed Long Run
Smithville, WV 26178	Dist McKim County Pleasants SuaShcultz
GAS PURCHASER Columbia Gas Trans. Corp.	Gas Purchase Contract No. AP-25283
ADDRESSP. O. Box 1273	
Charleston, WV 25325	Meter Chart Code Date of Contract March 3, 1981
u u u u	
Date surface drilling began August 2	
Indicate the bottom hole pressure of the well and	explain how this was calculated.
Bottom Hole Pressure - 719 psig	Pwh = 650psig
.01875 SG D	SG = .7
Pws=Phs $\frac{.01875 \text{ SG D}}{Z \text{ T}}$	D = 3793
	Z = .892 $T = 558$
	T = 558
AFFIDA	VIT
• AFFIDA	WII
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 demonstr	first sworn according to law, state that, I have calculated 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 related that the percentage of potentially disqualifying nonthe gross Devonian age interval; and I have no knowledge of inconsistent with a conclusion hat the fell qualifies as a
	. 1
STATE OF WEST VIRGINIA. COUNTY OF Ritchie TO WIT	
I Lenna G. Haught , a No	tary Public in and for the state and county aforesa
Warren R. Haughtwhose na	ame is signed to the writing above, bearing date
the 2ndday of July . 19 81, has	s acknowledged the same before me, in my county
t	
Civen under my hand and official so	eal this 2nd day of July 1981.
My rerm of office expires on the 1	8thav of <u>May</u> . 19 <u>86</u> .
.,	
	Lenna J. Jaught
(NOTARIAL SEAL)	



