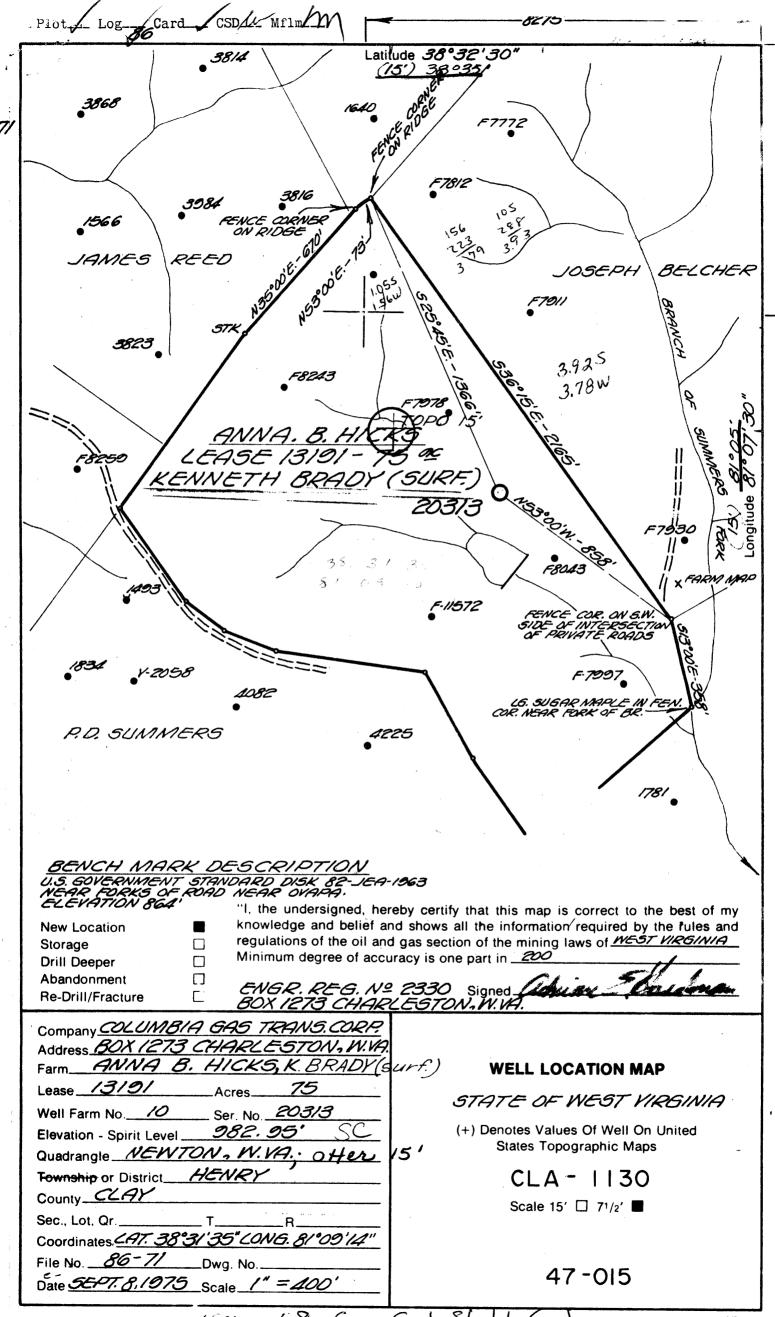


1976 - Firm 6-6 Granny Greek - Stockly



18-0 Granny Creek-

DEC 1 6 1975



## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

# Oil and Gas Division WELL RECORD

Quadrangle <u>Newton</u>	WELL	RECORD		Rotary	
Permit No. CLA-1130				Recycling	Comb  ood Storage  Evaluation
Company COLUMBIA GAS TRANS. CO Address Box 1273, Chas., WV 25 Farm Anna B. Hicks	ORP. 5325 Acres 75	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Summers Fork	Flo.: 982.95	Size 20-16			- Cu. II. (Sks.)
The surface of tract is owned in fee by Ke	nneth Brady	Cond. 13-10" 9 5/8			
Address Ovapa, WV 25150  Mineral rights are owned by J. C. Hi  Address 109 Costello S	cks etux	8 5/8 7		261	Cemented to surf
Drilling Commenced 12/4/75  Drilling Completed 12/4/75		5 1/2 4 1/2 3		1966	70 sacks
Initial open flow cu. ft Final production cu. ft. per day Well open hrs. before test.	bble	2 Liners Used			
Well treatment details:	RP.	Attach copy of	cementing reco	rd.	
Coal was encountered atFeesh waterFeeducing SandFe					Feet
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or \	Vater *	Remarks
Big Lime Injun	1753 1861	1861 1904			
Squaw Weir Silt	1934 1944	1944			
TOTAL DEPTH	1980				
		. 1		•	
	·				
dicates Float-in I	(over				

\* Indicates Electric Log tops in the remarks section.



IV-35 (Rev 8-81)

# DECEIVED DEC 11 1986

### State of West Birginia

Department of Mines Bil and Cas Division

		nber 3,	1986
Opera			
Well	No	20313	
Farm	A.B	. Hicks	
API N	o. 47	- 015	- 1130
			Frac

WELL OPERATOR'S REPORT

DIVISION OF OIL	<b>.&amp;</b> G4S			OF			
DEPARTMENT OF	ENEBRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

	,
WEIL TYPE: Oil x / Gas / Liquid Inject (If "Gas," Production / Underg	ion/Waste Disposal/ round Storage/Deep/Shallow_X_/)
LOCATION: Elevation: 982.95 Watershed	Summers Fork
	Clay Quadrangle Newton
COMPANY Columbia Gas Transmission Corporation	
ADDRESS P. O. Box 1273, Charleston, WV 25325	Casing Used in left Cement
DESIGNATED AGENT R. C. Weidner	Tubing Drilling in Well Cu. ft.
ADDRESS P. O. Box 1273, Charleston, WV 25325	
SURFACE OWNER Kenneth Brady	20-16 Cond.
ADDRESS	13-10"
MINERAL RIGHTS OWNER James C. Hicks	9 5/8
ADDRESS	8 5/8
OIL AND GAS INSPECTOR FOR THIS WORK	7
ADDRESS	5 1/2
PERMIT ISSUED 10-17-83	4 1/2
DRILLING COMMENCED 10-18-83	3
DRILLING COMPLETED 10-18-83	2
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used
GEOLOGICAL TARGET FORMATION Injun	Dep-h1970fee-
Depth of completed well 1980 feet	
Water strata depth: Freshfeet	
Coal seam depths:	Is coal being mined in the area?
OPEN FLOW DATA	
Producing formation	Pay zone depth . feet
	Oil: Initial open flow Bbl/d
Final open flow Mcf/d	Final open flow (3) Bbl/c
	itial and final tests hours
	ace measurement) after hours shut in
(If applicable due to multiple completi	
Second producing formation	Pay zone depth fee
Gas: Initial open flow Mcf/d	
	Oil: Final open flow
	itial and final tests hours
Static rock pressurepsig(surfa	ce measurement) after hours
	DEC 1.5 1986

(Continue of Lege 1986

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

Treated with 500 gal. HCl acid, 1000# 20/40 sand and 200# 10/20 sand.

WELL LOG

* .			W	ELL LOG	
					REMARKS
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOYTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
				•	
	-				
		•			•
				,	
,					
	• •				
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					·

(Attach separate sheets as necessary)

Operator	
Kulentha	
December 3, 1986	
L	December 3, 1986

Note: Regulation 2.02(i) provides as follows:

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





OIL & GATUMESION DELT. DE WINES

#### Oil and Gas Division

### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE November 19, 1975
Surface Owner Kenneth Brady	Company Columbia Gas Transmission Corporation
Address Ovapa, West Va. 25150	Address P. O. Box 1273, Charleston, WV 25325
Mineral Owner James C. Hicks, etux	Farm Anna B. Hicks Acres 75
Address_ 109 Costello St., Charleston, WV 2530	
Coal Owner Same as above	Well No. S. 20313 Elevation 982.95'
Address	· • • • • • • • • • • • • • • • • • • •
Coal Operator Not Operated	•
Address	- Quadrangie Non con
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 <u>Arelling</u> . This permit shall expire if	
operations have not commenced by 3-31-16	
1) over h lass INS	PECTOR TO BE NOTIFIED Martin Nichels
Deputy Director - Oil & Gas Division	548-6993 ADDRESS Clenderin UM
GENTLEMEN:	ADDRESS CHIMANIN UM
The undersigned well operator is entitled to drill upon the	e above named farm or tract of land for oil and gas, having fee
	dated April 23 1915 by Anna B.
	pany and recorded on the 4th day of June
19 15 in Clay County, Book 8	Page169
X NEW WELLDRILL DEEPER	REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLE	D BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer have been notified as of the above date.	or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or	notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. *
or coal owners at their above shown respective address	registered mail, or delivered to the above named coal operators  day before, or on the
same day with the mailing or delivery of this copy to the De	partment of Mines at Charleston, West Virginia.
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Very truly yours, COLUMBIA GAS TRANSMISSION CORP.
West Virginia Geological and Economic Survey	Well Operator
P. O. Eox 879	Director, Exploration & Development Post Office Box 1273
Morgantown, W. Va. 26505 Addre	
AC 304-296-4461 of Well Ope	rator Charleston
	City or Town
	West Virginia 25325
	State

\*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the 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.

Cla-1130 PERMIT NUMBER

BLANKET BOND

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

PROPOSED WORK ORDER TO	DRILL	DEEPEN	FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT:				
NAME			d Stotts			
ADDRESS						
TELEPHONE		TELEPHONE(304	) 346-0951			
ESTIMATED DEPTH OF COMPL	ETED WELL: 1970'	ROTARY X	_ CABLE TOOLS			
PROPOSED GEOLOGICAL FORM	MATION: Injun					
TYPE OF WELL: OIL_	X GAS	COMBSTORAG	GE DISPOSAL			
	RECYCI	LING WATER F	LOODOTHER			
TENTATIVE CASING PROGRAM  CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP			
SIZE	DRILLING	WELL.	OR SACKS - CUBIC FT.			
20 - 16						
13 - 10						
9 - 5/8						
8 - 5/8	250'	2501				
7						
5 ½	1970'	10701				
4 ½	13/0.	1970'	Bull Towns of the Control of the Con			
2			Perf. Top Perf. Bottom			
Liners			Perf. Top			
		3	Perf. Bottom			
		. :				
WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF BOND, PERMANENT PLATOIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU	OF OG - 1, SHOWING ORI TO 1929, A PERMANENT ED. RIGINALLY DRILLED BEF AND ORIGINAL WELL R RIGINALLY DRILLED ON MBER, AND PERFORMANO	COPY OF THE PLAT ANI CORE JUNE 5, 1929, FIVE (E ECORD. AND/OR AFTER JUNE 5, 1 CE BOND.	AND PERFORMANCE BOND. ON D THE ORIGINAL WELL RECORD  5) COPIES OG - 1, PERFORMANCE  929, FIVE COPIES OG - 1, SHOW-  5e. Inspector to be notified twenty-			
	**	,				
The following waiver must be thereof.	be completed by the coal o	perator if the permit is to b	pe issued within ten days of receipt			
		Coal Company, Own	ner or Operator of the coal under cation.			
			well being drilled at this location, ad 7, Chapter 22 of the West Virginia			
			For Coal Company			
		Management and administration of the Conference	Official Tist			
			Official Title			

NOTE: Keep one copy of this permit posted at the drilling location.



1)	Date:Se	eptember	14		19 83
2)	Operator's Well No	20313		<b>-</b> ,	
3)	API Well No.	47 _	015	_	1130-FRAC
		State	County		Permit

County

Permit

File

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

#### APPLICATION FOR A WELL WORK PERMIT

4) W	ELL TVI	PE: A C	ы Х	/ G	36	,					
<i>¬,</i> ₩1	LLL III		<sup>11</sup>				/ Underground	torage	/ Deep	/ CL-11-	Υ
5) 10	CATIO	U Fla	vation:	982.9	15	· · · · · · · · · · · · · · · · · · ·		Summer	-	/ Snallow	<u>X</u> _/)
3) LO	CATIO		strict:								
6) WI	ZII ODI	DATOR	::::::::::::::::::::::::::::::::::	mbia 6	ac T	nancmi	_ County:	Cldy T	Quadrangle: _ DAGENT _J. L.	Newton_	
		EKATOK.	D C	Dov	1272	Lanzin	ession corp.		DAGENT <u>J. L.</u>		
	Address	******		Box			•	Address	<u> </u>	Box 1273	
	•			lestor	•	25325	<u>)                                      </u>		Charl	<u>eston, WV</u>	25325
8) OII	L & GAS	SINSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C	ONTRACTOR:		
Na	me			<del></del>				Name			
	Address							Address		1.55	
											ع لا سا
0) PR	OPOSE	D WELL	WORK:	Drill		_/ Drill	deeper	/ Redrill	/ Stimulate	X 5 6 m	200
				Plug of	f old f	ormation	/ Perfora				. 16000
							well (specify)			うたピ し	5 1983
1) GE	OLOGI	CAL TAR	GET FOR	MATION		Injun					
				ed well,		1970	feet				
									feet.	Oil a g	AS DIVISION
			-	-			Is coa			DEPT.	DE MIN
		ND TUBI					15 CO2	n oemig mineu m m	e area? res		
•		ופטו שאו					<u>.</u>		_	1.	
CASING TUBING			SPEC	IFICATIONS Weight	s I	. 1	FOOTAGE II	ITERVALS	CEMENT FILL-UP OR SACKS	PACK	ERS
		Size	' Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
onductor							<u> </u>			Kinds	
resh wate	r										
oai										Sizes	
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							DEFICE LIST C	NIT N			
							OFFICE USE C				
						1	DRILLING PE	KMIT			
ermit nu	ımber	4	7-015-	1130-F	RAC		•		Octob	er 17.	1983
									Da		
his pern	nit cover	ing the we	ell operato	r and well	locatio	n shown	below is evidence o	f nermission grants	ed to drill in accordar		tinent local se
iiremen	its subjec	t to the co	onditions o	ontained l	herein a	nd on the	reverse hereof. No	tification must be	given to the District (	Dil and Gas Inso	ector, (Refer to
io. 8) P	rior to t	he constru	ction of re	oads, locat	ions an	d pits for	any permitted work	In addition, the w	ell operator or his cor	ntractor shall no	tify the proper
strict of	ii and ga	s inspecto	r 24 hours	before ac	tual per	rmitted we	ork has commenced	.)			
ne perm	itted wo	rk is as de	scribed in	the Notice	e and A	pplication	, plat, and reclama	tion plan, subject t	o any modifications a	and conditions si	ecified on the
verse he	ereof.						,				
ermit ex	pires _		UCL	ober 1	/, I	202	unless well	work is commenced	prior to that date and	prosecuted with	due diligence.
											-
Bond:		Agent		Plat:	Casin	0.	Fee				-
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							<del></del>	1 - L	injetroto- Ossi	<b>d</b>	
								Adm	inistrator Office of C	III 20/1 1 i2c	

See the reverse side of the APPLICANT'S COPY for instructions to the well operator