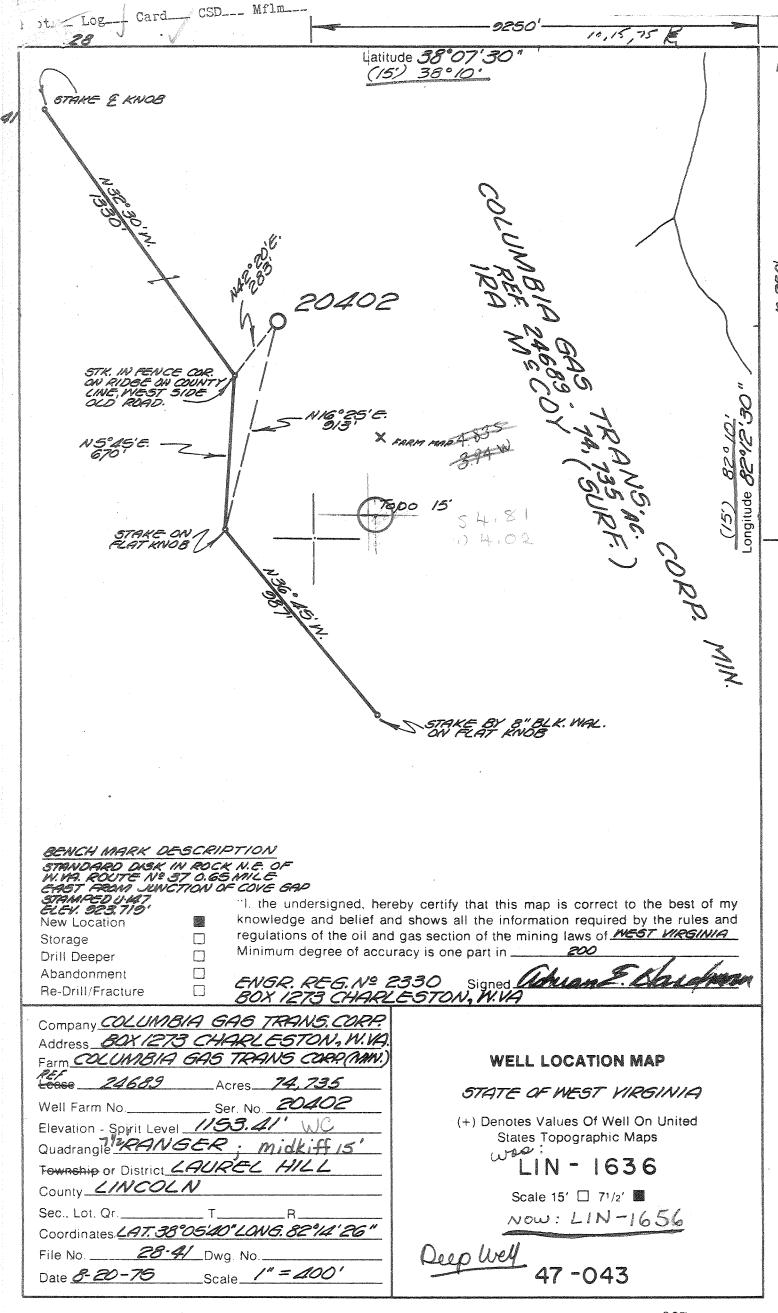


Deep Well-Corniberous -



VELL ACIDIZED_



DEPARTMENT OF MINES OIL AND GAS DIVISION

Ranger

Rotary X Spudder Cable Tools Starage

___FEET____INCHES

__FEET_

luadrangle <u>kanger</u>				Storage [
'ermit No. Lin. 1656-47-043 WELL		RECORD		Oil or Gas Well Gas		
ompany Columbia Gas Transmission Con Address Box 528, Hamlin, WV 25523 Carm Col. Gas Trans. Corp. Lease Address	4	Casing and Tubing	Used in Drilling	Left in Well	Packers	
vell No. 20402 E Laurel Hill County Lincoln	1153.41	Size 16	68		Kind of Packer Upside Down Tension Packer	
The surface of tract is owned in fee by Ira Mo	WV	10_9-5/8" 8%	2530		Size of 2-3/8	
dineral rights are owned by Columbia Gas Translation P.O. Bo Address Charles 03-06-76	scon, WV 253		4045	man come accessor	Depth se 3281	
Prilling completed 03-22-76	to a mathematic product consequence of chimese had the advance on the case of	2			Perf. top 2816 Perf. bottom 3232	
VithTo		1	1		Perf. top 3386 Perf. bottom 3966	
pen Flow /10ths Water in/10ths Merc. in/10ths Mcf	Inch Cu. Ft.	CASING CEME			O _{No. Ft} 03-11-76 Date	
Rock Pressure lbs.		COAL WAS EN			_FEETINCHES	

FEET___INCHES__

INCHES

__ FEET_

COCK PRESSURE	AFTER T	REATMENTFeet 5½	224# 2-3/8	8" 184# Salt Water_	Feet
Formation .	Color	Hard or Soft	Top	Bottom	Oil, Gas Remarks
Sand	araturinata) ey ir metermütti shakiyasınen va e iştirina yayını yayası.		. 0	67	MESSERVEIN
Slate			67	175	34
Sand & Slate			175	322	JUL 1 4 1980
Sand			322	393	1300
Slate			393	433	
Sand & Slate			433	994	OF BE GAS DIVISION
Salt Sand			994	1385	DEPT. OF MINES
Slate	-		1385	1472	The state of the s
Salt Sand			1472	1613	
Slate			1613	1662	
Big Lime		and and	1662	1900	
Slate			190 0	1953	
Injun Sand			1953	1968	
Slate & Shell	ls		1968	2486	
Coffee Shale			2486	2509	
Berea Sand			2509	2548	
Siltstone			2548	2595	
Shale			2595	3350	
Brown Shale			3350	3600	
Shale		*	3600	3977	
Corn. Lime			3977	4062	Show of Gas
				California de la Califo	
				1 de la constant de l	
		٠			
	-	2		15	
	ļ				
		- Annual Control of the Control of t			
The second distriction of the second distric	NAMES AND ADDRESS OF THE PARTY				

VELL FRACTURED Shale Foam Frac 7-31-78, 168,000 lbs. 80/100 sand, 118,000 lbs. 20/40 sand, 852 bbls.water, 8-21-78 Foam Frac Shale, 120,000 lbs. 80/100 sand, 170,000 lbs. 20/40 sand,

1040 bbls. water 2/10 w/2"-5½" Casing, 2/10 w/2"-2-3/8" Tubing Casing 73 Mcf, Tubing 60 Mcf



Oil and Oas Division

DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

73 T	
Charleston, W. Va.	DATE October 13, 1975
Surface Owner Ira McCoy	Company Columbia Gas Transmission Corporation
Address Ranger, West Virginia 2555	7 Address P.O. Box 1273, Charleston, WV 25325
Mineral Owner Columbia Gas Transmission	Corp. Farm Columbia Gas Trans. Corp. Acres 74,735
Address P.O. Box 1273, Charleston, WV 253	
Coal Owner Same as above	
Address	District Laurel Hill County Lincoln
Coal Operator Not Operated	Quadrangle Ranger
Address 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>Aze Olivia</u> . This permit shall expire if operations have not commenced by <u>A</u>	
Thurs sold	
Deputy Director - Oil & Gas Division	NSPECTOR TO BE NOTIFIED Kenneth Butch
	H: 736-4885 ADDRESS Back-resvile
	11/7/8
	the above named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or le Fuel Gas Co Columbia Gas Tran	ase dated <u>June 30</u> 19 71 by <u>United</u> S. Corp. and recorded on the 7th day of <u>July</u>
1971 in Lincoln County, Book	182 p 73
NEW WELL DRILL DEEPER	REDRULL FRACTURE OR STIMULATE
OIL AND GAS WELL CRIGINALLY DRIE	CIPD DEPODE HIND E 1000
	DEFORE SCIPE 5, 1999.
The enclosed plat was prepared by a registered enginuave been notified as of the above date.	eer or licensed land surveyor and all coal owners and/or operators
nave been notified as of the above date. The above named coal owners and/or operator are her	
The above named coal owners and/or operator are here to make by Section 3 of the Code, must be received by, Copies of this notice and the enclosed plat were maile or coal owners at their above shown respective address	cer or licensed land surveyor and all coal owners and/or operators reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * à by registered mail, or delivered to the above named coal operators day
The above named coal owners and/or operator are her to make by Section 3 of the Code, must be received by, Copies of this notice and the enclosed plat were maile	eer or licensed land surveyor and all coal owners and/or operators reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day
The above named coal owners and/or operator are here to make by Section 3 of the Code, must be received by, Copies of this notice and the enclosed plat were maile or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the	eer or licensed land surveyor and all coal owners and/or operators reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day
The above named coal owners and/or operator are here of make by Section 3 of the Code, must be received by, Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address arms day with the mailing or delivery of this copy to the PITASE SUBNIT COPIES OF ALL RESPRINGEL LOGS DIRECTLY TO:	reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, COLDERIA GAS TRAMSMISSION CORP. (Sign Name) Directorystexpoleonation & Development
The above named coal owners and/or operator are here to make by Section 3 of the Code, must be received by, Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address arms day with the mailing or delivery of this copy to the PICAGE SUBNIT COPIES OF ALL COPPRISICAL LOGS DIRECTLY TO:	reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, COLHADIA GAS TRAMSMISSION CORP. (Sign Name) Directorystap wation & Development Post Office Box 1273 ddress Street
The above named coal owners and/or operator are her to make by Section 3 of the Code, must be received by, Copies of this notice and the enclosed plat were maile or coal owners at their above shown respective address ame day with the mailing or delivery of this copy to the PITATE SUBNIT COPIES OF ALL COPIES OF ALL COPIES LOGS DIRECTLY TO: West Virginia Geological and Economic ALL DOX ST9	reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, COLDERIA GAS TRAMSMISSION CORP. (Sign Name) Directorystexpoleonation & Development
The above named coal owners and/or operator are her to make by Section 3 of the Code, must be received by. Copies of this notice and the enclosed plat were maile or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the PICIES SUBNIT COPIES OF ALL COPIES	reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day
The above named coal owners and/or operator are her to make by Section 3 of the Code, must be received by. Copies of this notice and the enclosed plat were maile or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the PITASE SUBNIT COPIES OF ALL COPIES OF ALL COPIES LOGS DIRECTLY TO: West Virginia Geological and Economic A. P. O. Box 879 TOWNS TOWNER, W. Vz. 26505 Well	reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, COLHARIA GAS TRAMSMISSION CORP. (Sign Name) Directory 122 According to Development Post Office Box 1273 ddress of Charleston

*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.

2006 PERMIT NUN

47-043

BLANKET BUND

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

PROFOSED WORK ORDER TO.	DRILL	DEEPEN	FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (H)	,				
NAME	and the second second section in the second				
ADDRESS		ADDRESS P.O. Sox 528, Hamlin, WV 25523			
TELEPHONE)824-5131		
ESTIMATED DEPTH OF COMPL	ETED WELL: 4,000'	ROTARY X	CABLE TOOLS		
PROPOSED GEOLOGICAL FORM	MATION: Shale		ing the state of t		
TYPE OF WELL: OIL_	GAS X CC		AGEDISPOSAL		
	RECYCLIN	GWATER	FLOODOTHER		
TENTATIVE CASING PROGRAM	: :				
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16					
13 -xx 3/8	901				
9 - 5/8	25501				
8 - 5/8					
7	40001				
			Peri. Top		
			Perf. Bottom		
Liners		Ì	Perf. Top		
			Perf. Bottom		
TO DRILL: SUBMIT FIVE (5) COPIES OF PLAT. TO DRILL DEEPER OR REDRIL SUBMIT FIVE (5) COPIES (WELLS DRILLED PRIOR T MUST ALSO BE SUBMITTE TO FRACTURE - STIMULATE: O'L AND/OR GAS WELL O'L BOND, PERMANENT PLAT O'L AND/OR GAS WELL O'L ING ORIGINAL PERMIT NU	OF OG - 1, \$100.00 PERMY L: OF OG - 1, SHOWING ORIGINO 1929, A PERMANENT COED. RIGINALLY DRILLED BEFORE AND ORIGINAL WELL RECERTIFICATION AND MEER, AND PERFORMANCE	F FEE, PERFORMANG NAL PERMIT NUMBE DPY OF THE PLAT A RE JUNE 5, 1929, FIVE ORD. ID/OR AFTER JUNE 5 BOND.	CE BOND AND PERMANENT COPY R AND PERFORMANCE BOND. ON AND THE ORIGINAL WELL RECORD E (5) COPIES OG - 1, PERFORMANCE 6, 1929, FIVE COPIES OG - 1, SHOW- lease. Inspector to be notified twenty-		
thereof. WAIVER: I the undersigned, Age this lease have examin We the	nt fored and place on our mine ma	Coal Company, (aps this proposed well have no objections to s	aid well being drilled at this location, and 7, Chapter 22 of the West Virginia		
			For Coal Company		
			Official Title		



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE February 19, 1976
Surface Owner Ira McCoy	Company COLUMBIA GAS TRANSMISSION CORPORATION
Address Ranger, West Virginia 25557	Address P.O. Box 1273, Charleston, WV 25325
Mineral Owner Columbia Gas Transmission Corp.	Farm Columbia Gas Trans.Corp.Acres 74,735
Address P.O. Box 1273, Charleston, WV 25325	Location (waters) Ten Mile Creek
Coal Owner Same as above	Well No. 20402 Elevation 1153.41
Address	District Laurel Hill County Lincoln
Coal Operator Not Operated	Quadrangle Ranger
Address	
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 Willing. This permit shall expire if	
operations have not commenced by 6-34-76.	
1 1	
Deputy Director - Oil & Gas Division	TOR TO BE NOTIFIED Kenneth Butches
INSPEC	TOR TO BE NOTIFIED Barbouriele, UV.
GENTLEMEN: PH: 2	ADDRESS ADDRESS
	above named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or lease da Fuel Gas Co Columbia Gas Trans. Co	rp. and recorded on the 7th day of July
19_71 in Lincoln County, Book 182	Page 73
V	
NEW WELL DRILL DEEPER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby not to make by Section 3 of the Code, must be received by, or file	otified that any objection they wish to make, or are required ed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by ror coal owners at their above shown respective addresssame day with the mailing or delivery of this copy to the Department.	egistered mail, or delivered to the above named coal operators day before, or on the artment of Mines at Charleston, West Virginia.
	ery truly yours
EOPHYSICAL LOGS DIRECTLY TO:	Sign Name)
est Virginia Geological and Economic Survey	Well Operator Development
. O. Box 879 organtown, W. Va. 26505 Address	Post Office Box 1273
C 304-296-4461 of	Street
Well Operat	
	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.

nd the well operator authorized to proceed. Farmerly

P

700-1656 PERMIT NUMBER

47-043

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

PROPOSED WORK ORDER TO.	X DRILL	DEEPEN FRACTURE-STIMULATE RESPONSIBLE AGENT: NAMEMr. E. G. Foster			
DRILLING CONTRACTOR: (If					
NAME					
ADDRESS		ADDRESS P.O. Bo	ox 528, Hamlin, WV 25523		
TELEPHONE		TELEPHONE (304)	824-5131		
ESTIMATED DEPTH OF COMPL	ETED WELL: 4000	ROTARY X	CABLE TOOLS		
PROPOSED GEOLOGICAL FORM	MATION: Shale				
TYPE OF WELL: OIL_	GAS X	COMB. STORAG	E DISPOSAT.		
			LOOD OTHER		
TENTATIVE CASING PROGRAM		WAISK FI	OTHER		
CASING AND TUBING SIZE	USED FOR	LEFT IN	CEMENT FILL UP		
20 - 16	DRILLING	WELL	OR SACKS - CUBIC FT.		
13 - xx3/8	901				
9 - 5/8	2550'	•	Cement to Surface		
8 - 5/8	2))0		Cement to Surface		
7	linnoi				
5 1/2	40001				
4 1/2					
3			Part Tan		
2	Annual control of the second o		Perf. Top Perf. Bottom		
Liners					
			Perf. Bottom		
IS COAL BEING MINED IN THE TO DRILL: SUBMIT FIVE (5) COPIES (OF PLAT. TO DRILL DEEPER OR REDRILI	OF OG - 1, \$100.00 PERM		BOND AND PERMANENT COPY		
SUBMIT FIVE (5) COPIES O	F OG - 1, SHOWING ORIG O 1929, A PERMANENT C	INAL.PERMIT NUMBER A	ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
TO FRACTURE - STIMULATE:					
OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT	AND ORIGINAL WELL RE IGINALLY DRILLED ON A	CORD. ND/OR AFTER JUNE 5, 19	COPIES OG - 1, PERFORMANCE 29, FIVE COPIES OG - 1, SHOW-		
Required forms must be filed four (24) hours in advance.	within ninety (90) days of	completion for bond release.	Inspector to be notified twenty-		
The following waiver must be	e completed by the coal on	crator if the permit is to be	issued within ten days of receipt		
mereor.					
WAIVER: I the undersigned, Agen this lease have examined	t for	Coal Company, Owner caps this proposed well loca	r or Operator of the coal under		
providing operator has co	omplied with all rules and reg	have no objections to said valuations in Articles 4, 5, and	vell being drilled at this location, 7, Chapter 22 of the West Virginia		
		· ·			
		1	For Coal Company		

Official Title