

4550 Deep Well 1-1?



### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

Rotary	K	
Spudder		
Cable Tools		
Storage		

MAR 3 0 1979

Duadrangle LeBeck	OIL AITO	,		Storage	Ó
Permit No. Woo-819 /07	WELL	RECORD		Oil or G	as Well Gas
Company Columbia Gas Transmission C		Casing and Tubing	Used in Drilling	Left in Well	Packers
Poor L Norma Poherte		Size			
Farm Roger & Norma Roberts Ac Location (waters) Middle Fork of Lee Cree		16			Kind of Packer
20557_T	lev 803.62	13 3/8		61.40'	
Well No. 2003/-1 E District Harris County Wood		10			Size of
The surface of tract is owned in fee by Roger Lee		83/24 5/8		2183.70'	
Roberts Address Rt. 2, Bell	ville. WV	65/8			Depth set
Mineral rights are owned by Roger Lee & Nort		5 3/16			
Address Rt. 2, Bell	kville, WV	41/2		4593.30'	
Drilling commenced 7-24-78		3			Perf. top 4216
Drilling completed 8-15-78		2			Perf. bottom 4389
Date ShotFrom		Liners Used			Perf. top
With Prom	•				Perf. bottom
Open Flow /10ths Water in/10ths Merc. in/	inch		ENTED 13-3	/8size 61.40	No. Ft. 7-23-78 Date
Volume		Amount of ceme	ent used (bags	Hollithum	Neat
Rock Pressurelbs		Name of Service	Co	natitour	LOH
Oil			•		FEET. INCHES
WELL ACIDIZED (DETAILS)					
WELL FRACTURED (DETAILS) Foam Frac		BBLS and 60,	000# Sand		FEET INCHES
RESULT AFTER TREATMENT (Initial open Flow or	bbls.) 30 N	1CF			
ROCK PRESSURE AFTER TREATMENT					
Fresh Water Sand Feet 65 Producing Sand Shale & Marcella	ردي	Salt Water	Depth	Feet 4216' to 4	389'

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Red Clay			0	55	Water		
Sand			55	65			
RedRock&Shal	e		65	985	· . ·		
Sand			985	1600	CEN	ENT RECORD	•
Lime			1600	1630			
Sand			1630	2129			
Shale,Coffee			2129	2144	8-5/8 Casing	g cemented to	surface on
Berea Sand			2144	2160	8-3-78 using	550 sks. ce	ement; using
Shale			2160	3880	Halliburton	Services Co.	• ,
Black Shale			3880	4330			
MarcellusSha	1e		4330	4403			
Lime			4403	4502	4½ casing ce	mented with	175 sks.
Oriskany			4502	4547	neat cement	by Halliburt	on on 8-6-7
Oriskany Lime - We	lderberg	-	4547	4580 TD			
					·		





## Oil and Gas Division

#### OIL & GAS DIVISION DEPT. of MINES

## OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE July 12, 1978
Dann Las C. Nama Dahanta	
Surface Owner Roger Lee & Norma Roberts	Company Columbia Gas Transmission Corp.
Address Rt. 2 Belleville, W. Va. 26133  Same as above	Address P. O. Box 1273, Charleston, W. Va
Mineral Owner Same as above	Farm Roger & Norma Roberts Acres 84
Address	
Coal Owner Same as above	Dievation
Address	2 Division and the second seco
Coal Operator Unoperated	Quadrangle Lebeck
Address THIS PERMIT MUST BE POSTED AT THE WELL SIT	<u> </u>
All provisions being in accordance with Chapter 22 of the W. Va. Code, the location is hereby approved	INSPECTOR
for <u>drilling</u> . This permit shall expire	TO BE NOTIFIED Paul Goodnight
operations have not commenced by 11-14-78	ADDRESS Smithwillo W Va 26178
Detectu Code	ADDRESS Smithville, W. Va. 26178
Deputy Director - Oil & Gas Division	PHONE 477-3660
GENTLEMEN:	
The undersigned well operator is entitled to drill upon	the above named farm or tract of land for oil and gas, having for
title thereto, (or as the case may be) under grant or lea	se dated February 6 1978 by R. Roberts  Corp. and recorded on the day of
19 in Wood County, Book 6	
	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRIL	IFD REPORT LINE 5 1000
Dille Com Wall Committee Dille	DED DEFORE 50/12 5, 1969.
The enclosed plat was prepared by a registered engine have been notified as of the above date.	er or licensed land surveyor and all coal owners and/or operator
The above named coal owners and/or operator are here to make by Section 3 of the Code, must be received by	eby notified that any objection they wish to make, or are require or filed with the Department of Mines within ten (10) days.
to make by Section 3 of the Code, must be received by,	or filed with the Department of Mines within ten (10) days. *  I by registered mail, or delivered to the above named coal operator  day hefore or on the
Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the	or filed with the Department of Mines within ten (10) days. *  I by registered mail, or delivered to the above named coal operator  day hefore or on the
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Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	or filed with the Department of Mines within ten (10) days. *  I by registered mail, or delivered to the above named coal operator  day
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BLANKET BOND

. It 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.

> WOO-819 PERMIT NUMBER

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

PROPOSED WORK ORDER TO	X DRILL	DEEPEN FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:			
NAME		NAME Larry Friend			
ADDRESS		ADDRESS P. O. Box 610, Clendenin, W			
TELEPHONE		TELEPHONE 965-3317			
ESTIMATED DEPTH OF COMPL	ETED WELL: 4550'	ROTARY X	CABLE TOOLS.		
PROPOSED GEOLOGICAL FORM					
TYPE OF WELL: OIL_	GAS X	COMB STORAGE	DISPOSAL		
•		LING WATER FLO			
TENTATIVE CASING PROGRAM			VIII.		
CASING AND TUBING SIZE	USED FOR DRILLING	LITT IN	CEMENT EILE UP		
20 - 16	Ditteling	WELL'	OR SACKS - CUBIC 11		
-ын- 11 3/4	90'		- To Surface		
9 - 5,8					
8 - 5/8	22001		To Surface		
7					
5.12					
4 12	4550'				
3/8	44501		Pert. Lop		
The second secon					
			Perf. Bottom		
APPROXIMATE FRESH WATER : APPROXIMATE COAL DEPTHS IS COAL BRING MINED IN THE			•		
IS COAL BEING MINED IN THE	AREA? NO	BY WHOM?	and the substitution of th		
TO DRILL:					
SUBMIT FIVE (5) COPIES ( OF PLAT.	OF OG - 1, \$100.00 PERM	HT FEE, PERFORMANCE BO.	ND-AND PERMANENT COPY		
TO DRILL DEEPER OR REDRILL	<b>.:</b>				
SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED	J 1929, A PERMANENT (	INAL PERMIT NUMBER AND COPY OF THE PLAT AND TH	PERFORMANCE BOND ON HE ORIGINAL WELL RECORD		
<b>.</b> • • • • • • • • • • • • • • • • • • •	•				
OIL AND/OR GAS WELL OR	IGINALLY DRILLED REFO	RETUNES 1000 FIVE (5)	OPIES OC - 1, PERFORMANCI		
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	AND ORIGINAL WELL RE	CORD.			
The state of the s	DER, AND PERFORMANCE				
Required forms must be filed four (24) hours in advance.	within ninety (90) days of	completion for bond release, I	nspector to be notified twenty		
		A STATE OF THE PROPERTY OF			
The following waiver must be	completed by the and an				
hercot.	completed by the coal ope	crator if the permit is to be iss	ued within ton days of receipt		
WAIVER I the undersigned, Agent	for	Cual Company Owner o	* Oname 11		
this lease have examined	and place on our mine m	aps this proposed well location	operator of the coal under		
		have no objections to said well			
providing operator has co Code.	mplied with all rules and reg	ulations in Articles 4, 5, and 7,	Chapter 22 of the West Virginia		
•					
	•		•		
		for (	'osl Company		
	·				
	•	O	Hick Title		