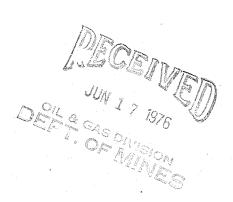


Under lease or grant dated the 8th. day of September, 1951, by Ernest Hutton and Frances S. Hutton, his wife, unto M. C. F. Gas Company, containing 1187 acres, more or less, in Middle Fork District of Randolph County, West Virginia. This lease is of record in the office of the Clerk of Randolph County, in Deed Book 188 at Page 404.

By virtue of an agreement dated the 7th. day of June, 1976, Randolph Gas Company, the subsequent owner of the leasehold oil and gas and the oil and gas leasehold estate, assigned unto Allegheny Land and Mineral Company 320 acres a part of the subject lease as shown on a plat attached hereto. This assignment is only for the horizons or formations from the top of the Onendago Sand through the bottom of the Tuscarora.





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FORM IV-30 (Reverse) [08-78]

DETAILS OF FERMORATED INTERMALD, PRACTICALITY OR DEPMOLATING, PARALLY CARROLL AND A

lst Treatment

Oriskany formation was treated with 11,000 gals. 28% Mc1; 9,500 gals. 5% acid at an average rate of 16 barrels per minute at 2500 psi.

2nd Treatment

Oriskany formation was hydraulically fractured with 820 barrels of gelled water and 20,000 lbs. 80/100 mesh sand and 15,000 lbs. 20/40 mesh sand. Average rate was 12 Bb1/Min. at 4500 psi.

WELL LOG

					Remarks
FORMATION	Color	Errior	Top Feet	7	in luming indication of all fres
Shale with interbedded sandstone	Red	Hard- Medium		762	
Limestone	Brown	Soft	762	1210	Greenbriar
Shales & Sandstones	Red to Gray	Soft w/ hard strea	1210 ks	3300	Catskill
Silty Shales w/ some siltstones and sands	Med. Gray	Soft	3300	7434	Chemung
Shales	Med. Gray	Soft	7434	8390	Portage
Shale, calcareous	Dk. Gray	Soft	8390	8437	Harrell
Shale	Dk. Gray	Soft	8437	8740	Hamilton
Shale	Black	Soft	8740	8806	Marcellus
Metabeutonite	Red/Brown	Soft	8806	8807	Tioga
Limestone	Dk. Gray	Soft	8807	8907	Onondaga
Chert	White	Hard	8907	8978	Huntersville
Shale .	Gray	Soft	8978	9008	Needmore
Sand, v. calcareous	Milky- Clear White	Hard	9008	9265	Oriskany
Limestone	Lt. Brown to Gray	Hard	9265	9300	Helderberg
•	2 common and a property of the common and a p	militaria (e-mai iliye			

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Well Operator

Regulation 1.00 desperades des follows: "The tee 'i' ' p's, i' ''
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geological new ping til formations,
including of al, encantered in the
drilling of a well."





Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

	DATE April 28, 1978
Surface Owner Darrell & Norma June Bolyard	Company Hampshire Gas Company
Address	
Mineral Owner Same as above	Farm Darrell Bolyard Farm Acres 160
Address	Location (waters) Between Dry Fork & Laurel Fork
Coal Owner	Well No. 27 Elevation 3695.92
Address	_
Coal Operator	•
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	INSPECTOR
for <u>drilling</u> . This permit shall expire if	TO BE NOTIFIED Robert S. Stewart
operations have not commenced by 9-8-78	ADDRESS Box 345, Jane Lew, West Virginia 26378
Deputy Director - Oil & Gas Division GENTLEMEN:	PHONE <u>884-7782</u>
	the above named farm or tract of land for oil and gas, having fee
June Bolyard made to Hampshire Gas Comp	dated July 27, 1974 by Darrel & Norma any and recorded on the 1st day of August
XX NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE
XX NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRILLI	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969.
XX NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRILL! The enclosed plat was prepared by a registered engineer	REDRILLFRACTURE OR STIMULATE
NEW WELL	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969.
NEW WELL	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operators y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * by registered mail, or delivered to the above named coal operators day
OIL AND GAS WELL ORIGINALLY DRILL The enclosed plat was prepared by a registered engineer have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address ame day with the mailing or delivery of this copy to the Delivery of the Delivery of this copy to the Delivery of this copy to the Delivery of	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operators y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * by registered mail, or delivered to the above named coal operators day
OIL AND GAS WELL ORIGINALLY DRILL The enclosed plat was prepared by a registered engineer have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address ame day with the mailing or delivery of this copy to the Delease Submit copies of ALL	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operators y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * oy registered mail, or delivered to the above named coal operators
OIL AND GAS WELL ORIGINALLY DRILL The enclosed plat was prepared by a registered engineer have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address ame day with the mailing or delivery of this copy to the DELEASE SUBMIT COPIES OF ALL SEOPHYSICAL LOGS DIRECTLY TO:	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operators y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * oy 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, HAMPSHIRE GAS COMPANY (Sign Name) Well Operator 6801 Industrial Road
OIL AND GAS WELL ORIGINALLY DRILLI The enclosed plat was prepared by a registered engineer have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address ame day with the mailing or delivery of this copy to the DELEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: VA. OIL & GAS CONSERVATION COMMISSION Address Addr	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operators y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * 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, HAMPSHIRE GAS COMPANY (Sign Name) Well Operator 6801 Industrial Road Street
NEW WELL	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operators y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * oy registered mail, or delivered to the above named coal operators day
OIL AND GAS WELL ORIGINALLY DRILLI The enclosed plat was prepared by a registered engineer have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address mame day with the mailing or delivery of this copy to the DELEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: VA. OIL & GAS CONSERVATION COMMISSION Address MASHINGTON STREET, EAST Address Ad	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operators y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * by registered mail, or delivered to the above named coal operators

*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:

BLANCET BOND

RAN-229 PERMIT NUMBER

47-083

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

PROPOSED WORK ORDER TO	XX DRILL	DEEPEN F	FRACTURE-STIMULATE
DRILLING CONTRACTOR: (I	Known)	RESPONSIBLE AGENT	':
NAME		NAME Harry L.	Ketcham, Jr.
ADDRESS		ADDRESS 6801 Indu	strial Road, Springfield,
TELEPHONE	*1		750-4871
ESTIMATED DEPTH OF COMP	X .		CABLE TOOLS
PROPOSED GEOLOGICAL FOR			
TYPE OF WELL: OIL			E DISPOSAL
•	RECYC	LING WATER FLO	OODOTHER
TENTATIVE CASING PROGRA			
TENTATIVE CASING PROGRA	vi:		
CASING AND TUBING	USED FOR	LEFT IN	CEMENT LILL UP
SIZE	DRILLING	WELL.	OR SACKS - CUBIC FT.
20 - 16			232
3 - 10 13 - 3/8" 9 - 5/8 9 - 5/8"	60 *	60'	70 sacks
3 - 5/8	3,000 1	3,000	1,200 sacks
7"	9,500	1 0001	160 1
1/2	- 3	1,000'	160 sacks
1/2			
			Perf. Top
2-3/8"	9,600'	0	Perf. Bottom
iners			Perf. Top
			Perf. Bottom
OF FLAI. D DRILL DEEPER OR REDRIL SUBMIT FIVE (5) COPIES (WELLS DRILLED PRIOR T MUST ALSO BE SUBMITTE D FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU	L: OF OG - 1, SHOWING ORIGINAL OF OG - 1, SHOWING ORIGINAL RIGINALLY DRILLED BEFORMORE AND ORIGINAL WELL RE RIGINALLY DRILLED ON A MBER, AND PERFORMANCE	GINAL PERMIT NUMBER AND TOPY OF THE PLAT AND TOPE JUNE 5, 1929, FIVE (5) CORD. ND/OR AFTER JUNE 5, 1929 E BOND.	DND AND PERMANENT COPY D PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE D, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-
			The state of the s
The following waiver must be reof.	e completed by the coal op-	erator if the permit is to be is	sued within ten days of receipt
AIVER: I the undersigned, Ager this lease have examine	nt for d and place on our mine m	Coal Company, Owner of this proposed well location	or Operator of the coal under
			nl. Il being drilled at this location,
providing operator has co	omplied with all rules and reg	rulations in Articles 4, 5, and 7,	Chapter 22 of the West Virginia
·			
of ten days from the receipt to well operators permit or the trap of and their the commercials	- being bis ochlis keima de ha H w oced displicel lieb iscenii H w oced the liebie och an den delim	eminged the account of the property control of state of the state of t	Coal Company tragely one we said that a met you train that a met you train to a met.
A COMPANY OF WEEKSTON FROM A MAKE TO THE PARTY OF THE PAR	•		Official Title

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FORM IV-38 [08-78]

Operator's Hamp. Well No. 27 API Well No. $\frac{47}{\text{State}} - \frac{083}{\text{County}} - \frac{0229}{\text{Permit}}$

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

	-				Lon/ Waste Disposal/ ound storage/ Deep_ <u>xx</u> / Shallow/
CCAT					: Between Dry Fork & Laurel Fork
					Randolph Quadrangle: Harman
ELL	OPERATOR	Hampshir	re Gas C	ompany	DESIGNATED AGENT Charles Griffith
	Address	6801 Indus	trial R	oad	Address P.O. Box 368
				inia 22151	Romney, West Virginia 26757
	OF WEST V)	SS:		
	diagnostico de la companya de la co	Charl	es Grif	fith	and Ronnie A. Miller,
the i	well operat	or, and part	icipated	in the work of	were employed by Hampshire Gas Company, f plugging and filling the above well; that the work nd completed on August 15, , 19 80 , in the
	PERMITTED	WORK: Plug	and aban	don_XX_/ Cl	ean out and replug/
PLUG	GING MATERI	ALS			COAL SEAMS (NAMES AND DEPTHS) SEP - 2 1980
PLUG	GING MATERI Type of	Other		1	COAL SEAMS (NAMES AND DEPTHS) SEP - 2 1980 None
PLUG	Type of Cement	Other Materials	Depth	Thickness	None Oil & GAS DIVISION
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190	50 Sks.	None None
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352	50 Sks. 20 Sks.	None Oil & GAS DIVISION
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352 2804	50 Sks. 20 Sks. 110 Sks.	None Oil & GAS DIVISION
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352	50 Sks. 20 Sks.	None OIL & GAS DIVISION DEFT. DF 1 DESCRIPTION OF WELL MONUMENT
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352 2804	50 Sks. 20 Sks. 110 Sks.	None OIL & GAS DIVISION DEPT. OF h
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352 2804 150	50 Sks. 20 Sks. 110 Sks. 55 Sks.	None OIL & GAS DIVISION DEFIT: DF 1 DESCRIPTION OF WELL MONUMENT 9-5/8" Casing screwed and welded to Surface Casing: approximately
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352 2804 150	50 Sks. 20 Sks. 110 Sks. 55 Sks.	None OIL & GAS DIVISION DEFT. OF IN DESCRIPTION OF WELL MONUMENT 9-5/8" Casing screwed and welded
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352 2804 150	50 Sks. 20 Sks. 110 Sks. 55 Sks.	None OIL & GAS DIVISION DEFIT: DF 1 DESCRIPTION OF WELL MONUMENT 9-5/8" Casing screwed and welded to Surface Casing: approximately
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352 2804 150	50 Sks. 20 Sks. 110 Sks. 55 Sks.	None OIL & GAS DIVISION DEFT. DF 1 DESCRIPTION OF WELL MONUMENT 9-5/8" Casing screwed and welded to Surface Casing: approximately 6' above ground with 1" Vent on
PLUG	Type of Cement Class A "" "" Bridge Plu	Other Materials 6% Gel.	9190 4352 2804 150	50 Sks. 20 Sks. 110 Sks. 55 Sks.	None ORL & GAS DIVISION DEPT. OF LOCAL DESCRIPTION OF WELL MONUMENT 9-5/8" Casing screwed and welded to Surface Casing: approximately 6' above ground with 1" Vent on top. The number 47-083-0229 is
PLUG	Type of Cement Class A	Other Materials 6% Gel.	9190 4352 2804 150	50 Sks. 20 Sks. 110 Sks. 55 Sks.	None ORL & GAS DIVISION DEPT. OF LOCAL DESCRIPTION OF WELL MONUMENT 9-5/8" Casing screwed and welded to Surface Casing: approximately 6' above ground with 1" Vent on top. The number 47-083-0229 is
PLUG	Type of Cement Class A "" "" Bridge Plu	Other Materials 6% Gel. "" "" "" "" "" "" "" "" "" "" "" "" ""	9190 4352 2804 150 pe and D	50 Sks. 20 Sks. 110 Sks. 55 Sks.	None ORL & GAS DIVISION DEPT. OF LOCAL DESCRIPTION OF WELL MONUMENT 9-5/8" Casing screwed and welded to Surface Casing: approximately 6' above ground with 1" Vent on top. The number 47-083-0229 is
PLUG	Type of Cement Class A "" "" Bridge Plu WENT PIPE MISCELLAN CASING LO	Other Materials 6% Gel. "" "" "" "" "" "" "" "" "" "" "" "" ""	9190 4352 2804 150 Dee and Dece and	50 Sks. 20 Sks. 110 Sks. 55 Sks.	None OH & GAS DIVISION DEPT. OF LOCAL AND DEPTHS DEPTH
PLUG	Type of Cement Class A "" "" "" Bridge Plu VENT PIPE MISCELLAN CASING LO	Other Materials 6% Gel. "" "" "" "" Ligs UsedTy EOUS MATERIA 56' 13- 57 642	9190 4352 2804 150 Dee and December 290 LS 3/8": 290 Service	50 Sks. 20 Sks. 110 Sks. 55 Sks. epth 203' 9-5/8"	None ORL & GAS DIVISION DEPT. OF LOCAL DESCRIPTION OF WELL MONUMENT 9-5/8" Casing screwed and welded to Surface Casing: approximately 6' above ground with 1" Vent on top. The number 47-083-0229 is

My commission expires for 7, 1980.

My commission expires for 7, 1980.

Notary Public