

WR-35



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



## State of West Virginia

DEPARTMENT OF ENERGY
Gil und Gas Bivision

Date						
DateJUNF_30, 1987 Operator's						
Well No. # 1-A						
Farm L. E. RICHARDS						
APT No. 47 - 085	- 4934					

# WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil XX / Gas XX/ Liquid Injection (If "Gas," ProductionXX / Undergrou	/ Wast	e Disposal e / Deer	/ / Sha	illowyy /)	
LOCATION: Elevation: 892' Watershed OT					
District: UNION County RITCH			PIII I MAN	7.5'	
<u> </u>		-			
COMPANY G.W.F. CORPORATION					
ADDRESS <u>6172 BUSCH BLVD. SU 3003 COLUMBUS. OH 4</u> 322	Casing	Used in	Left	Cement fill up	
DESIGNATED AGENT BILL KNIGHT	Tubing	Drilling	in Well	Cu. ft.	
ADDRESSRT. #1,BOX 44C,BURNSVILLE,WV 26335	Size				
SURFACE OWNER L. E. RICHARDS	20-16 Cond.				
ADDRESSRT. #1, BOX 71, BEREA, WV 26327	13-10"			į	
MINERAL RIGHTS OWNERL. E. OR THELMA RICHARDS	9 5/8				
ADDRESS RT. #1,80X 71, BEREA, WV 26327	8 5/8	425'	425'	50 sks	
OIL AND GAS INSPECTOR FOR THIS WORK SAM	7	423	77.1		
HERSHMAN ADDRESSBOX 66, SMITHVILLE, WV 26178	5 1/2				
PERMIT ISSUED 9/30/80	4 1/2		2010 '	60 sks	
DRILLING COMMENCED10/20/80	3				
DRILLING COMPLETED 10/26/80	2				
IF APPLICABLE: PLUGGING OF DRY HOLE ON				1.	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners				
CN				7-1-1	
GEOLOGICAL TARGET FORMATION INJUN		Dep	th_ <sub>1935=1</sub>	970 feet	
Depth of completed well 2400 feet F	Rotary <u>xx</u>	/ Cable	e Tools_	:	
Water strata depth: Freshfeet;	Salt	feet			
Coal seam depths: Is coal being mined in the area? NO					
OPEN FLOW DATA					
Producing formation INJUN	Pay	y zone dep	th	1970 feet	
Gas: Initial open flow 2 Mcf/d	Oil: In:	itial open	flow 1	Bbl/d	
				Bbl/d	
Time of open flow between init	ial and f	inal tests	6 ho	ours	
Static rock pressure 650 psig(surface	e measure	ment) afte	r <sub>12</sub> hou	urs shut in	
(If applicable due to multiple completion					
Second producing formation	Pa	y zone dep	th	feet	
Gas: Initial open flow Mcf/d					
Final open flow Mcf/d				, ,	
Time of open flow between init	ial and f	inal tests	h	ours	
Static rock pressurepsig(surface	measurem	ent) after	ho	urs shut in	

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. INJUN PERFED 1935-1970: FRACED W/545 BBLS. WATER, 30M# SAND, BREAKDOWN 1900 PSI. TREATED 1700 PSI., SHUT IN 1400 PSI.

#### WELL LOG

				1	REMARKS
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	
RED ROCK			435	450	
SLATE	•		450	459	
RED ROCK			459	463	
SLATE	•		463	475	*1
SAND			475	620	
RED ROCK	•		620	630	
SAND	`		630	665	DECENVEN
RED ROCK	· ·		665	675	
SHALE	`		675	703	
RED ROCK	,		703	730	JUL 0 6 1987
SLATE	`		730	752	Divide
SAND			752	761	DIVISION OF OIL & GAS
			761	770	DEPARTMENT OF ENERGY
SLATE				790	
SAND			770		
SHALE			790	858	·
SAND			858	888	
SLATE			888	919	
SLATE			919	972	
SAND			972	1018	
SLATE			1018	1065	
' ' SAND.			1065	1109	
SLATE			1109	1147	
SAND			1147	1188	
SLATE			1188	1225	
SLATE			1225	1241	
SHALE			1241	1255	
SAND			1255	1275	
SLATE			1275	1312	·
SAND			1312	1334	
SLATE			1334	1341	
SAND			1341	1379	
SLATE			1379	1467	· · · · · · · · · · · · · · · · · · ·
SAND			1467	1500	
SLATE			1500	1530	
SAND			1530	1531	
SLATE			1531	1600	
SAND			1600	1635	
SHALE			1635	1705	
SAND			1705	1753	
SHALE			(Attach se		as necessary)
SAND			1782	1828	
LIME			1828	1935	
SAND Zn'	Ja 1025	1970 0&G	SHOW G.W.E.	CORPORĂTION	
SHALE		2075		Operator	$\bigcirc$
SLATE	1970 2075	2100		$\overline{\gamma}$ .	
SHALE	2100	2400	By:	(our	Hour U.P.
SHALL	2100	(2400) 79		1 . 2	0-87
			Date:	10-8	· 0 /

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 only, encountered in the drilling of a well."



STATE OF WEST VIRGINIA

DEPARTMENT OF WINES

# Oil and Gas Division

### OIL AND GAS WELL PERMIT APPLICATION

	DATE September 11, 1980	
Surface Owner L. E. Richards	Company G.W.F. Corporation	
Address	Address 6172 Busch Blvd., Colu	ımbus, OH
Mineral Owner L. E. Richards	Farm L. E. Richards Ac	•
Address Pichanda	Location (waters)	
Coal Owner L. E. Richards	Well No. 1-A Ele	
Address		
Coal Operator None	Quadrangle Pullman 7.5'	
Address of the NCOL CATE	Make with address the second s	
A. Va. Cude, the location is hereby approved		
This permit shall shall shall	INSPECTOR TO BE NOTIFIED Paul Goodnight	
ns have not commenced by 5-26-81	- ADDRESS	
uty Director - Oil & Gas Division	PHONE 477-3660	
GENTLEMEN:		
·	upon the above named farm or tract of land for oil a	
19 in BITCHIE County, Book		
19 in BITCHIE County, Book	PERREDRILLFRACTURE O	
NEW WELL DRILL DEF  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered have been notified as of the above date.	PERREDRILLFRACTURE CONTINUED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners	OR STIMUI
NEW WELL DRILL DEE  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered have been notified as of the above date.  The above named coal owners and/or operator a	PERREDRILLFRACTURE OF CONTROL OF THE PROPERTY	OR STIMUI and/or ope
NEW WELL DRILL DEED OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered have been notified as of the above date.  The above named coal owners and/or operator at to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were or coal owners at their above shown respective additional country.	PERREDRILLFRACTURE OF DRILLED BEFORE JUNE 5, 1969.  The property of licensed land surveyor and all coal owners of hereby notified that any objection they wish to make by, or filed with the Department of Mines within ten mailed by registered mail, or delivered to the above name	and/or ope e, or are re (10) days. ed coal ope fore, or o
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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	Known)	RESPONSIBLE AGENT:			
NAME		92/ 1-1			
ADDRESS					
TELEPHONE		TELEPHONE 422-6	TELEPHONE 422-6891		
ESTIMATED DEPTH OF COMPI	ETED WELL: 2100'	ROTARY X	CABLE TOOLS		
PROPOSED GEOLOGICAL FORM	MATION: Injun		•		
TYPE OF WELL: OIL_	GAS	COMB. X STORAGE	DISPOSAL		
			OODOTHER		
TENTATIVE CASING PROGRAM	1:		to.		
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP		
SIZE	DRILLING	WELL	OR SACKS - CUBIC 1-T.		
20 - 16					
13 - 10 9 - 5/8					
8 - 5/8	200'	200'	S. S.		
7	200	200	Surface		
5 1/2					
4 1/2	2100'	2100'	50 SKS.		
3	4100	2100			
2	· · · · · · · · · · · · · · · · · · ·		Perf. Top Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom		
TO DRILL:  SUBMIT FIVE (5) COPIES  OF PLAT.  TO DRILL DEEPER OR REDRIL		MIT FEE, PERFORMANCE BO	OND AND PERMANENT COPY		
SUBMIT FIVE (5) COPIES ( WELLS DRILLED PRIOR T MUST ALSO BE SUBMITTE	O 1929, A PERMANENT	GINAL PERMIT NUMBER AN COPY OF THE PLAT AND T	D PERFORMANCE BOND, ON HE ORIGINAL WELL RECORD		
TO FRACTURE - STIMULATE:					
OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT	RIGINALLY DRILLED BEFORM AND ORIGINAL WELL RE	ORE JUNE 5, 1929, FIVE (5) C	COPIES OG - 1, PERFORMANCE		
	RIGINALLY DRILLED ON A	AND/OR AFTER JUNE 5, 1929	9, 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-		
			and the second s		
	• •				
nereot.			ssued within ten days of receipt		
WAIVER: I the undersigned, Ager this lease have examine	d and place on our mine r	Coal Company, Owner maps this proposed well location	or Operator of the coal under on.		
We the	Coal Company	have no objections to said we	ell being drilled at this location,		
providing operator has co	omplied with all rules and re	gulations in Articles 4, 5, and 7	Chapter 22 of the West Virginia		
			•		
		l'o	r Coal Company		
	- -		Official Title		